GLORIOUS TWO DECADES
OF HOLISTIC AND COMPREHENSIVE EDUCATION

SBS GROUP OF INSTITUTIONS
The journey of SBSPGI began in 1994, when the first Institute offering biomedical education in the entire Northern region was established. The Institute was the outcome of the foresightedness and vision of the Founder Director S. Gurcharan Singh Ji, who started his dream with just 8 students in a small classroom. It was not an easy road to tread. Gradually as the number of students kept increasing, so did the infrastructure and the faculty. In 1997, a new academic block Prof. Puran Singh Block was inaugurated. Later, in 2001 another academic block came up by the name of Baba Kharak Singh Block. In the recent past, Biotechnology Block and the latest Physiotherapy Block have been added to the assets of the Institute. There came many hurdles on the way but with the outstanding faculty, motivated students and efficient management, we were able to overcome turbulent times and today, SBS is 20 years old. Spread in salubrious environs of more than 25 acres, the Institute offers more than 12 courses at the UG and PG Level.

The Institute has excellent infrastructure with hi-tech laboratories of unmatched standards. The faculty of the Institute is another feather in the cap, with more than 70 highly specialised staff members imparting knowledge in their respective curriculums. We have left no stone unturned as far as placements are concerned. Our students excel on all professional fronts like Corporate, Industry, Hospitals, Educational and Research Organisations in India and abroad. More than 4,000 alumni of SBSPGI are serving the mankind worldwide.

SBS family has grown over the years and has excelled on the academic and professional arena. We aim to grow stronger progressively and achieve even higher levels of excellence in the upcoming years.

WE ARE THE PIONEERS
WE ARE EDUCATING
WE ARE SERVING
WE ARE GROWING
WE ARE SBS
Vision is the ability to perceive the many possibilities that are available to an organization and to create a picture of where that organization will be in the future. This is how, The Founder Director, Late Sardar Gurcharan Singh Ji articulated a link between dreams and action with a vision that sets a clear, focused, desirable direction and can take an organization to a specific destination.

Describing S. Gurcharan Singh Ji as a mere founder of SBSPGI would be ignoring his fine personality. With clear vision & focus, he pursued his dreams till the last day of his life. He knew that people are motivated to perform when they have a clear understanding of the purpose and meaning of a task or activity. As a visionary leader, he provided this purpose and meaning by developing his vision and then communicating it to his team. His task in the educational field started with the foundation of the Institute in the year 1994 with the objective of providing excellence in professional education, to make one's life worthy of emulation. This reflection is well seen in his achievements in the twin worlds of social development and education which are perhaps unsurpassed in recent history.

OUR BELOVED FOUNDER DIRECTOR
S. Gurcharan Singh
(1940-2005)

SBSPGI is a living example of how one man’s determination can bring about miracles. S. Gurcharan Singh had the courage to dream the impossible and resourcefulness to realise it.

Diamonds when they shatter in the stillness of night
They leave behind crystals, and knowledge of light... ...
Vision is the ability to perceive the many possibilities that are available to an organization and to create a picture of where that organization will be in the future. This is how, The Founder Director, Late Sardar Gurcharan Singh Ji articulated a link between dreams and action with a vision that sets a clear, focused, desirable direction and can take an organization to a specific destination. Describing S. Gurcharan Singh Ji as a mere founder of SBSPGI would be ignoring his fine personality. With clear vision & focus, he pursued his dreams till the last day of his life. He knew that people are motivated to perform when they have a clear understanding of the purpose and meaning of a task or activity. As a visionary leader, he provided this purpose and meaning by developing his vision and then communicating it to his team. His task in the educational field started with the foundation of the Institute in the year 1994 with the objective of providing excellence in professional education, to make one's life worthy of emulation. This reflection is well seen in his achievements in the twin worlds of social development and education which are perhaps unsurpassed in recent history.
Dehradun – “The Doon Valley” is the capital of the beautiful state of Uttarakhand. Located in the foot hills of the Shivalik Range, surrounded by lush green mountains, Dehradun is a beautiful town with a varied climate throughout the year. Over the last 50 years Dehradun has evolved from a small and calm city to a fast developing business and education centre. Dehradun has always attracted tourists from far and wide places, because of its scenic and aesthetic natural beauty. Places like Mussoorie, Haridwar, Rishikesh, Dhanaulti and Sahastradhara attract thousands of tourists every year. Rajaji National Park situated on the outskirts of the town is another asset for the tourism of Uttarakhand.

Dehradun also possesses schools of International repute such as The Doon School, Woodstock International School, Welhams Girls & Boys Schools, Rashtriya Indian Military College (RIMC), St. Joseph’s Academy, Convent of Jesus & Mary to name a few. Dehradun has always been famous as ‘City of Schools’ with more than 200 public schools in the whole town, until in 1994, when a revolutionary change took place and the first Biomedical Institute was established in Northern India. This Institute was the vision of Late Sardar Gurcharan Singh Ji, Founder Director of Sardar Bhagwan Singh Post Graduate Institute of Biomedical Sciences and Research. Since then, lot of Institutes have been established and Dehradun no longer remains just a city of schools, but a hub of primary and higher Education. Since its establishment, SBSPGI in the last 20 years has excelled in all spheres and today is a prominent landmark amongst the educational fraternity of the Northern Region.
Dehradun – “The Doon Valley” is the capital of the beautiful state of Uttarakhand. Located in the foot hills of the Shivalik Range, surrounded by lush green mountains, Dehradun is a beautiful town with a varied climate throughout the year. Over the last 50 years Dehradun has evolved from a small and calm city to a fast developing business and education centre. Dehradun has always attracted tourists from far and wide places, because of its scenic and aesthetic natural beauty. Places like Mussoorie, Haridwar, Rishikesh, Dhanaulti and Sahastradhara attract thousands of tourists every year. Rajaji National Park situated on the outskirts of the town is another asset for the tourism of Uttarakhand.

Famous for organizations of Historic and National acclaim such as Sardar Gurcharan Singh Ji, Founder Director of Sardar Bhagwan Singh Indian Military Academy (IMA), Forest Research Institute (FRI), Post Graduate Institute of Biomedical Sciences and Research. Since Ordinance Factory and Lal Bahadur Shastri Academy of IAS training. then, lot of Institutes have been established and Dehradun no longer Dehradun also possesses schools of International repute such as The remains just a city of schools, but a hub of primary and higher Doon School, Woodstock International School, Welhams Girls & Boys Education.

Our Vision: Bringing Science to Society

“Mission”
Sardar Bhagwan Singh Post Graduate Institute of Biomedical Sciences and Research values and fosters an inter connected world, where all people are connected to provide superior levels of educational participation and academic excellence among the students. SBSPGI plays a leading role in transforming the students to think and act as global citizens and build comprehensive thriving communities. The Institute is committed for providing an array of academic and student development services that support students' success in attaining their academic, cultural and civic achievements.

THE INSTITUTES
Sardar Bhagwan Singh Post Graduate Institute of Biomedical Sciences and Research is the pioneer in offering professional education in the field of biomedical sciences in the region. Since its inception in 1994, the Institute has constantly worked towards raising the academic standards. In pursuit to offer quality education to the students, the Institute has grown technically sound with state-of–art laboratories, hi-tech equipment and the best infrastructure in the region for academics and research. “Growth in every sphere of activity” is visible in the performance of students' & well placed alumni. The Institute offers programs in various fields of allied health & life Sciences such as Pharmacy, Applied Chemistry, Physiotherapy, Lab Technology, Microbiology, Biotechnology & Biochemistry. The Institute provides excellent facilities for overall development of the students.
Sardar Bhagwan Singh Institute of Technology. The infrastructure of Sardar Bhagwan Singh Institute of Technology and Management is complete and the first academic session will commence shortly. The Institute offers programmes in various fields of technology such as B.Tech Civil, Electrical, Mechanical, Electronics & Communication and Computer Science.

The Mandate of Society
Both institutes are governed by the society; Gaurav Bharti Shiksha Sansthan which was established by great visionary and philanthropist, our Founder Director S.Gurcharan Singh jee. The depicted society mandated itself towards providing quality professional education to the needy students belonging to Sikh minority community, but now admissions are open to all categories of students irrespective of caste, creed and religion. The grand aim is to develop the Institutes as centres of excellence in the area of Biomedical Sciences & Engineering with state of art facilities.

NAAC ACCREDITATION
The Institute achieved high scores of 3.20 and 3.30 (equivalent to ‘A’ grade) in infrastructure & learning resources and student's support & progression, respectively with an overall score of 2.90 on a 4.0 scale.
In the last 20 years, SBSPGI has attracted thousands of students from across the length and breadth of India and even abroad. As an aspirant, let us help you review the countless reasons to choose SBSPGI as the Institute of choice for your higher and professional education.

- The pioneers in Biomedical Education: The First & The oldest Institute of North India imparting high quality education since 1994.
- NAAC (National Assessment and Accreditation Council) Accredited: The Institute has achieved high scores of 3.20/4.0 (equivalent to Grade A) in Infrastructure & Learning Resources, and 3.30/4.0 (equivalent to Grade A) in Student Support & Progression with an overall score of 2.90 on a 4.0 scale.
- Spread over an area of 25 acres located in the serene Doon Valley - The Hub of Education.
- Excellent infrastructure, Hi Tech labs with most modern equipments.
- Faculty: Right knowledge will give you the edge over the others. The Institute has a strong faculty base with 8 Professors, 10 Associate Professors, 51 Assistant Professors, thirty one of them are possessing doctorate degree. This will help you to gain global subject knowledge and research skills.
- Excellent University results.
- Overall Personality Development: We are not just confined to classroom teaching. Here at SBS we share the spirit and sense of participation. Sports, Cultural & Music Club, Publication Society, Debating Society, Dramatics Club, NCC, Philately Society, Creative Arts Club and Nature Club make you aware of the untapped potential in you. Personality development and English classes further refine your personality for the competitive world.
- Unique and active method of interaction with teachers, through Class Committees & Advisors for a group of students to help students in all roles of academic & personal matters.
- Placements: Sharing a high reputation among Academicians & Industry, we yield high percentage of excellent placements in reputed companies like Cipla, Ranbaxy, Jubilant Chemsys, Jubilant Life Science, Pfizer, Torrent, Lupin, Brindavan Beverages, Windlass Biotech and Alembic, to name a few.
- Over 700 Internationally placed alumni across the globe.
- More than 575 scientific presentation, over 580 publications and awards.
- 19 government sponsored research projects in progress.
Knowledge Rich Faculty

Only Committed people can change the world – indeed, it is the only thing that has ever worked.

Meet some of our eminent faculty members.

Dr. Luvkush, Advisor Academics, SBSPGI
A Post-graduate from Lucknow University in Organic Chemistry in 1959, Dr. Luvkush completed his Ph. D. in 1967 in Phytochemistry & his MS in Medicinal Chemistry and Basic Clinical Sciences from the School of Pharmacy, University of Pacific California, USA. He completed his Clinical Technologist Training from Los Robles Hospital, California, USA in 1976 and his Instructor Credentials from California Community Colleges, USA in 1980. Holding more than 35 years of academic & research experience, he has guided more than 20 students in their M.Sc. thesis work. 50 publications in various journals of national and international repute can be added to his credit.

Dr. F. C. Garg, M. Sc. Ph.D.(Microbiology), Professor and Head, Department of Microbiology
Dr. Garg has more than 40 years of teaching & research experience. He has published more than 60 research papers in national and international journals of repute and has also written one book entitled ‘Experimental Microbiology’ for the learners. He has interest in Biological Nitrogen Fixation and Food Fermentations. He has guided several students for their Doctorate research. Dr. F. C. Garg has completed two R&D projects one each from ICAR and Ministry of Agriculture. He was instrumental in establishing Regional Biofertiliser Development Center at Hisar, part of one of the prestigious project of Government of India. He also looked after the Regional Biofertiliser Development Center at Jabalpur (M. P.). Being senior most professor, he used to officiate as Dean, College of Basic Sciences, CCS, Haryana Agricultural University.
Dr. Versha Parcha, Professor and Head, Department of Applied Chemistry  
M.Sc, M.Phil, Ph.D Chemistry
Dr. Parcha has more than 20 years of research experience and a vast experience of 17 years in teaching organic, analytical and natural products chemistry at U.G and P.G level. She has to her credit more than 78 publications in International and national journals of high repute and author of six books. She has successfully completed three major projects of Ministry of Science & Technology, Ministry of Health & Uttarakhand Council of Science & Technology worth 25 lacs, which resulted in the development of anti-fungal and anti-diabetic formulations namely Aiseogel, Debicare & Debisip. 10 students have been awarded Ph.D degree and 10 students are pursuing Ph.D under her supervision from various reputed universities like HNBGU, UTU, JNU, BIT Mesra Ranchi etc. More than 100 M.Sc / M.Pharm dissertations have been carried out under her supervision. She is Convener / member, Board of Studies, M.Sc. Pharm. Chem., HNBGU and UTU Evaluator for Ph.D Thesis.

Dr. Sanjay Gupta, Professor and Head, Department of Biochemistry & Biotechnology
Dr. Gupta did his Master's in Biochemistry in 1990 from AMU, Aligarh, and Ph.D (Biotechnology) in 1995 from IIT Roorkee. Holding more than 20 years of research experience & 16 years of teaching experience, he has supervised 85 Master's students for their dissertations, 06 Ph.D students for doctoral thesis and another 10 doctoral students are working under his supervision for their PhD. His publications include 65 peer reviewed Research Papers in National and International Journals of repute and more than 100 conference proceedings and 03 books. He is also associated as PI/Co-PI with 06 sponsored research projects funded by UCOST, Dehradun and DST-Govt. of India, New Delhi. Dr. Gupta was also a Member of Task Force for HRD development in Biotechnology in Uttarakhand in 2005, State Biotechnology Program, Government of Uttarakhand, Uttarakhand, Dehradun.

Dr. Veerma Ram, Professor and Head, Department of Pharmaceutical Sciences
A Ph.D. from Jodhpur National University, M.Pharm Pharmacology from Jamia Hamdard University, New Delhi and B.Pharm from University of Rajasthan, Jaipur, Prof. Veerma Ram has been granted 03 national patents for his remarkable research aptitude. Holding more than 15 years of outstanding teaching & research experience, he has contributed 40+ research and review papers in various journals of National and International recognition. He also received grant for 2 research projects by AICTE and UCOST. He has guided 4 Ph.D scholars & 13 M.Pharm students. A life member of APTI & specialized in division of Pharmacology and Toxicology, his keen interest area covers antidiabetics, hepatotoxicity and CNS disorders with special emphasis on memory loss and its management.
**Dr Maneesh Arora, Professor and Head, Department of Physiotherapy**

A graduate from NIRTAR and Masters in Physiotherapy in Sports from SBSPGI, Dr. Arora is certified in Advanced Electromedicine from Phoenix, USA. He is a PG Diploma in Chiropractics and Osteopathy from Chang Mai, Thailand & is a former member of UGC committee on Physiotherapy. Holding more than 18 years of academic & research experience, he has conducted more than 25 workshops on Manual Therapy. 100 papers have been presented or published in various journals of National and International repute. He is the recipient of the prestigious Physio Ratan Award at AIIMS, 2013 and the Academic Excellence Award at NCPT. He is the member of Executive Committee of Indian Association of Physiotherapists from 2011-2014 & examiner for 20 universities, and in the board of studies of 6 universities.

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**Dr M K Chakraborty**

**Associate Professor & Head, Department of MLT & MM.**

With over 18 years of Experience in General Health Care, skills at handling cases in Medicine and Minor Surgical Procedures including First Aid to Accidental Emergencies, Dr. Chakraborty has completed post graduate diploma in Family Medicine from Christian Medical College, Vellore in 2009 & MBBS from Silchar Medical College and Hospital under Guwahati University in 1993. Dr. Chakraborty has worked as Medical Officer in O.N.G.C Ltd. Cachar Project Assam for one and a half years & as House Surgeon in the Department of Medicine at Northern Frontier Railway Central Hospital Guwahati, Assam for 1 year.

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**Dr Gajraj Singh Bisht, Professor, Department of Microbiology**

With 23 years of industrial experience in antibiotic production through fermentation process in Pharmaceutical Industry, he is teaching Microbiology, Industrial and Pharmaceutical Microbiology for the last 15 years. His field of research is Actinomycetes, a resource for antibiotics. Prof. Bisht has several publications in International Journals. He has guided and is guiding M. Phil & Ph.D. students & has to his credit completion of two R&D projects (DBT& UCOST) in previous and present organization respectively. Prof. Bisht has established an Actinomycetes Research Laboratory at SBSPGI, a lone example in Uttarakhand maintaining thousands strains of Actinomycetes, and also providing microbial cultures of bacteria and fungi to needy young researchers. He also has keen interest in plant taxonomy.
Dr. Ram Lal Thakur, Professor, Department of Microbiology.
Dr. Ram Lal Thakur has vast experience of teaching for more than 18 years and has published 8 papers in Journals of National & International repute. Dr. R L Thakur did his Post Graduation in dairy bacteriology from Kurukshetra University and later did his Ph.D. from NDRI, Karnal in Dairy Microbiology. He has guided several students for their Doctoral Degree from various Universities. He is in the panel of the Experts of BITS, Pilani (Rajasthan) in the discipline of Microbiology. Recently he has been awarded as the ‘Best Teacher of the Year’ award conferred by Rotract Club, Uttarakhand chapter. His career is so devoted to the studies on various aspects of the microbes, his friends and colleagues call him that “he is married to microbes”

Ms. Urmi Chaurasia, Associate Professor, Department of Pharmaceutical Sciences
She has completed her B. Pharm and M. Pharm (Pharmaceutics) from BIT, Ranchi and is a life member of APTI and active advisor of IPGA, Uttarakhand State Branch. With more than 22 years of experience in the field of academics and research, Ms.Urmi Chaurasia also holds 2 years of Industrial experience. Her contributions include 4 research papers, 27 poster presentations and guidance to 8 M.Pharm students and about 25 UG and other PG students. She has been member BOS, UTU for pharmacy and appointed Deputy and Head Examiner for UTU Pharmacy evaluations. Her interest area lies in herbal formulations, sustained release and controlled release dosage forms and NDDS.

Dr Reena Kumari, Associate Professor, Department of Physiotherapy
Dr. Reena completed her Bachelor of Physiotherapy from Institute of Physically handicapped, Delhi University and Masters in Physiotherapy from SBSPGI, Dehradun. With more than 17 years of experience, she has more than 50 paper presentations at National level conferences & 8 publications to her credit. She has guided 37 PG and 83 UG students in their dissertations. She has participated in organizing 7 National Level Conferences. She is associated as examiner for more than 5 universities. Her area of interest is Neurological Approaches.
Dr. R. N. Singh, Associate Professor, Department of Biochemistry & Biotechnology
Dr. R.N. Singh has done his Doctoral degree from Department of Biochemistry, B.H.U. Varanasi. His Ph.D is in the field of Immuno & Serodiagnosis of filariasis. With more than 15 years of experience, he has guided several master students for their dissertations and has also guided two Ph.D. students and presently three students are working under his supervision. Two R&D projects are also running under him in capacity of PI/Co-PI.

Dr. Rizwan Ahmed, Associate Professor, Department of Biochemistry & Biotechnology
Dr. Rizwan Ahmed received his M.Sc. (Biochemistry) degree in 1992 and Subsequently did his M Phil and PhD in Biochemistry from Faculty of Medicine, AMU, Aligarh. He is also a CSIR and ICMR Fellow. With more than 11 years of experience, to his credit are 23 research papers, 2 chapters, 1 book and 51 conference proceedings. He has served as Associate Professor, Oman Medical College, Oman and an Ex-Visiting Fellow, King Faisal University, KSA. He is a reviewer of 5 International Journals and guided 1 doctoral thesis and has research interest in the area of Nucleic Acid Immunology and Free Radical Biochemistry.

Dr. Arunmozhi, Associate Professor, Department of Physiotherapy
He graduated from Pondicherry University in 1999, he completed his Masters in Sports Physiotherapy in the year 2005 from IIIMS under Devi Ahilya University, Indore. Dr. Arunmozhi holds more than 12 years of experience and has to his credit 6 national and 1 International research work publication. He is a Diploma in Sports Massage from British School of Yoga (BSY), Devon, UK, and has done a foundation course on Myofascial Release technique from Jing Massage Institute, Brighton, UK.
Dr. Siddhartha Sen, Associate Professor, Department of Physiotherapy
Having more than 12 years of experience including 3 years of clinical expertise with multispecialty hospitals, he received his bachelor degree (BPT) from Prestigious National Institute for the Orthopaedically Handicapped (NIOH), Kolkata. He finished his Professional master degree (MPT) from H.N.B. Garhwal University, Uttrakhand in Orthopaedics specialization. He has done Postgraduate Diploma in Hospital & Health Care Management (PGDHHM) from Symbiosis University, Pune and now he is pursuing his Ph.D degree from Punjabi University, Patiala. His publications include 8 papers in International journals and 2 in National journals and several paper presentations at various conferences.

Dr. Vikas Anand, Associate Professor, Department of Pharmaceutical Sciences
He graduated (B.Pharm.) from SBSPGI, obtained his masters from NIPER, Mohali and has been awarded Ph.D. from Mohanlal Sukhadia University, Udaipur. With 12+ years of teaching and research experience, his additional educational qualifications include Certificate Course on IPR, PG Diploma in Patent Laws and PG Diploma in Pharma Regulatory Affairs. He has supervised 10 M.Pharm students. He is life member of APTI, APA-IDMA, LASA, and Pharma Association. His work has led to 1 book, 1 book chapter and 32+ papers in National and International journals and 26+ submitted presentations at scientific meetings/conferences. He is editorial board member of 24+ International and national journals and actively involved in peer-review process of 20+ international and national journals. His name has been included and biography is published in "Marquis Who's Who in the World" 2009-2014th Edition and "Marquis Who's Who in Science and Engineering" 2011-2012. He has been awarded a grant of Rs. 7.5 lac by AICTE for Modernization of Pharmaceuticals Laboratory at SBSPGI. His area of interest lies in fast dissolving drug delivery, taste masking, NDDS, ion exchange resins etc.

Dr. Mamta F. Singh, Associate Professor, Department of Pharmaceutical Sciences
She has done her Ph.D from Birla Institute of Technology, Ranchi, Jharkhand and M. Pharm from MS University, Baroda. She has done her B. Pharm from HNBGU, Srinagar. With 10 years of teaching as well as research experience, Dr. Mamta has published 25 research and review articles in different national as well as International journals and participated and presented papers in various National and International conferences. She has guided 9 students at master level from different Institutes and Universities and presently guiding one Ph.D student. Her areas of interest include basic research in the field of cardiovascular system, diabetes, CNS disorders, natural antioxidants and natural products especially from the Himalayas of rural areas of Uttarakhand. She has expertise in various surgical techniques like cannulation of carotid artery, femoral vein, jugular vein in rats and mice.
Dr. S.K. Dubey, Associate Professor, Department of Pharmaceutical Sciences
He has done B. Pharm (1992) from University of Rajasthan, Jaipur; M. Pharm Pharmacognosy (2006) from Rajeev Gandhi Prodyogiki Vishvavidyalaya, Bhopal and PhD (2009) from University of Rajasthan, Jaipur. With more than 7 years of academic and research experience, he has contributed 18 National and International papers and guided over 14 M. Pharm students. His key interest area lies in phytochemistry, adulteration in spices and condiments for general culinary preparations.
We are all at once teachers and learners.
We are all at once teachers and learners in every encounter of our lives.
## OUR DISTINGUISHED FACULTY

<table>
<thead>
<tr>
<th>Dr Luv Kush</th>
<th>Academic Advisor</th>
<th>MS(Pharmaceutical Science), USA, Ph.D.</th>
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### DEPARTMENT OF PHARMACEUTICAL SCIENCES

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<tr>
<td>1</td>
<td>Dr. Veerma Ram</td>
<td>Professor &amp; HOD</td>
<td>M Pharm(Pharmacology), Ph.D.</td>
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<td>2</td>
<td>Ms. Urmia Chaurasia</td>
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<td>Mrs. Vandana Jugra Negi</td>
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<td>Mr Mohd Ajmal</td>
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<td>9</td>
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### Computer Sciences & Mathematics

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<td>27</td>
<td>Dr Richa Gaur</td>
<td>Assistant Professor</td>
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### DEPARTMENT OF MLT & MEDICAL MICROBIOLOGY

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<td>Associate Professor</td>
<td>M.B.B.S., PG Diploma in Family Medicine, FCCP, FSAMS</td>
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<tr>
<td>2</td>
<td>Mr. Anil Kumar</td>
<td>Lecturer</td>
<td>M.Sc. MLT</td>
</tr>
<tr>
<td>3</td>
<td>Ms. Hema Rana</td>
<td>Assistant Lecturer</td>
<td>MLT (P) M.Sc (Biochemistry)</td>
</tr>
<tr>
<td>4</td>
<td>Ms. Ankita Rajput</td>
<td>Assistant Lecturer</td>
<td>M.Sc. (Medical Microbiology)</td>
</tr>
<tr>
<td>5</td>
<td>Ms. Aparjita Bhardwaj</td>
<td>Assistant Lecturer</td>
<td>M.Sc (Biochemistry)</td>
</tr>
<tr>
<td>6</td>
<td>Mr. Ravi Vashisht</td>
<td>Assistant Lecturer</td>
<td>M.Sc (Medical Microbiology)</td>
</tr>
</tbody>
</table>

**GUEST FACULTY**

1. Dr. Kapil Arora | M.B.B.S., MD.

### DEPARTMENT OF MICROBIOLOGY

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Name</th>
<th>Designation</th>
<th>Qualification</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Dr. F.C. Garg</td>
<td>Professor &amp; HOD</td>
<td>M.Sc. (Microbiology), Ph.D.</td>
</tr>
<tr>
<td>2</td>
<td>Dr. Ram Lal Thakur</td>
<td>Professor</td>
<td>M.Sc. (Microbiology), Ph.D.</td>
</tr>
<tr>
<td>3</td>
<td>Dr. G.R.S. Bisht</td>
<td>Professor</td>
<td>M.Sc. (Microbiology), Ph.D.</td>
</tr>
<tr>
<td>4</td>
<td>Dr. Nidhi Belwal</td>
<td>Assistant Professor</td>
<td>M.Sc (Biotechnology), Ph.D.</td>
</tr>
<tr>
<td>5</td>
<td>Dr. Rupa Giri</td>
<td>Assistant Professor</td>
<td>M.Sc (Microbiology), Ph.D.</td>
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### DEPARTMENT OF PHYSIOTHERAPY

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<tr>
<td>1</td>
<td>Dr. Maneesh Arora</td>
<td>Professor &amp; HOD</td>
<td>MPT (Sports Rehabilitation)), CAEM (Phoenix – USA), Dip. Chiropractic &amp; Osteopathy (Chang Mei University, Thailand)</td>
</tr>
<tr>
<td>2</td>
<td>Dr. Reena Kumari</td>
<td>Associate Professor</td>
<td>MPT (Neurological Disorders), Dip in Acupressure, MIAP</td>
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<tr>
<td>3</td>
<td>Dr. Siddhartha Sen</td>
<td>Associate Professor</td>
<td>MPT (Musculoskeletal Disorders), PGDHM</td>
</tr>
<tr>
<td>4</td>
<td>Dr. Arun Mozhi</td>
<td>Associate Professor</td>
<td>MPT (Sports Rehabilitation)</td>
</tr>
<tr>
<td>5</td>
<td>Dr. R. Raghuvneer</td>
<td>Assistant Professor</td>
<td>MPT (Neurological Disorders)</td>
</tr>
<tr>
<td>6</td>
<td>Dr. Umer Arfath</td>
<td>Assistant Professor</td>
<td>MPT (Orthopaedic &amp; Sports Rehabilitation)</td>
</tr>
<tr>
<td>7</td>
<td>Dr. Amit Dhawan</td>
<td>Assistant Professor</td>
<td>MPT (Musculoskeletal Disorders)</td>
</tr>
<tr>
<td>8</td>
<td>Dr. Pooja Bhardwaj</td>
<td>Assistant Professor</td>
<td>MPT (Musculoskeletal Disorders)</td>
</tr>
<tr>
<td>9</td>
<td>Dr. Shiv Priya</td>
<td>Assistant Professor</td>
<td>MPT (Neurological Disorders)</td>
</tr>
<tr>
<td>10</td>
<td>Dr. Chitra Kapoor</td>
<td>Assistant Professor</td>
<td>MPT (Sports Rehabilitation)</td>
</tr>
<tr>
<td>11</td>
<td>Dr. Mayank Bhargava</td>
<td>Assistant Professor</td>
<td>MPT (Musculoskeletal Disorders)</td>
</tr>
<tr>
<td>12</td>
<td>Dr. Priyanka Gulati</td>
<td>Assistant Professor</td>
<td>MPT (Neuro Paediatrics)</td>
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### DEPARTMENT OF BIOTECHNOLOGY AND BIOCHEMISTRY

<table>
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<th>S.No.</th>
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<tr>
<td>1</td>
<td>Dr. Sanjay Gupta</td>
<td>Professor &amp; HOD</td>
<td>M.Sc. (Biochemistry), Ph.D.</td>
</tr>
<tr>
<td>2</td>
<td>Dr. R.N. Singh</td>
<td>Associate Professor</td>
<td>M.Sc (Biochemistry), Ph.D.</td>
</tr>
<tr>
<td>3</td>
<td>Dr. Rizwan Ahmad</td>
<td>Associate Professor</td>
<td>M.Sc. (Biochemistry), Ph.D.</td>
</tr>
<tr>
<td>4</td>
<td>Dr. Vikas Singh Jadon</td>
<td>Assistant Professor</td>
<td>M.Sc. (Microbiology), Ph.D.</td>
</tr>
<tr>
<td>5</td>
<td>Dr. Barkha Kamal</td>
<td>Assistant Professor</td>
<td>M.Sc. (Botany), Ph.D.</td>
</tr>
<tr>
<td>6</td>
<td>Dr. Rina Rani Singh</td>
<td>Assistant Professor</td>
<td>M.Sc. (Wildlife Sciences), Ph.D.</td>
</tr>
<tr>
<td>7</td>
<td>Dr. Pushpa Maurya</td>
<td>Assistant Professor</td>
<td>M.Sc. (Biotech), Ph.D.</td>
</tr>
<tr>
<td>8</td>
<td>Dr. Santosh Kumar Singh</td>
<td>Assistant Professor</td>
<td>M.Sc. (Botany), Ph.D.</td>
</tr>
<tr>
<td>9</td>
<td>Dr. Jyoti Swaroop Kumar</td>
<td>Assistant Professor</td>
<td>M.Sc. (Biochemistry), Ph.D.</td>
</tr>
<tr>
<td>10</td>
<td>Dr. Vishal Rajput</td>
<td>Assistant Professor</td>
<td>M.Sc (Zoology), Ph.D.</td>
</tr>
<tr>
<td>11</td>
<td>Dr. Kumar Sachin</td>
<td>Assistant Professor</td>
<td>M.Sc (Life Sc.), Ph.D.</td>
</tr>
<tr>
<td>12</td>
<td>Dr. Maya Dutt Joshi</td>
<td>Assistant Professor</td>
<td>M.Sc (Biotechnology), Ph.D.</td>
</tr>
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</table>

### DEPARTMENT OF APPLIED CHEMISTRY

<table>
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<th>S.No.</th>
<th>Name</th>
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<th>Qualification</th>
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<tbody>
<tr>
<td>1</td>
<td>Dr. Versha Pacha</td>
<td>Professor &amp; HOD</td>
<td>M. Sc. (Organic Chemistry), M.Phil, Ph.D.</td>
</tr>
<tr>
<td>2</td>
<td>Dr. Manjeet Kaur Arora</td>
<td>Assistant Professor</td>
<td>M.Sc. (Analytical Chemistry), Ph.D.</td>
</tr>
<tr>
<td>3</td>
<td>Dr. Neetu Pandey</td>
<td>Assistant Professor</td>
<td>M.Sc (Organic Chemistry), Ph.D.</td>
</tr>
<tr>
<td>4</td>
<td>Dr Alok Maithani</td>
<td>Assistant Professor</td>
<td>M.Sc (Pharm Chemistry), Ph.D.</td>
</tr>
</tbody>
</table>

### GUEST FACULTY

1. Dr. Neelam Yadav  
   Assistant Professor  
   M.Sc (Organic Chemistry), Ph.D.

2. Dr. Shivani Pathak  
   Assistant Professor  
   M.Sc (Organic Chemistry), Ph.D.

3. Dr. Amita Sati  
   Assistant Professor  
   M.Sc (Organic Chemistry), Ph.D.
INFRASTRUCTURE

MAIN CAMPUS
Spread in an area of 12 acres the academic campus includes the five main faculty blocks namely, Baba Kharak Singh Block, Professor Puran Singh Block, Medical Lab Technology Block, Physiotherapy block and Biotechnology Block along with the Administrative Block, Cafeteria and the Girls' Hostel. Under expansion programme, the proposed Guru Gobind Singh Block of Sardar Bhagwan Singh Institute of Technology is now complete.

ACADEMIC BLOCKS

Professor Puran Singh Block
Justice Kuldip Singh, Former Judge, Supreme Court of India inaugurated Prof. Puran Singh Block on 30th November 1997. The Block consists of Department of Applied Chemistry and inducing learning at the highest quality level. The halls are equipped with modern teaching aids like Over Head Projectors (OHPs), Multimedia presentation devices, Slide Projectors etc. The Block also houses Laboratories for Pharmaceutical Sciences.

Physiotherapy Block
A newly constructed building with space of over 20,000 sq.ft built in area. This building houses seven classrooms, six laboratories, departmental library and state of art seminar room.

Medical Lab Technology Block
This block is the oldest block from where the Institute began its journey with merely 8 students and today it has more than 1200 students. This block mainly consists of Department of Medical Lab. Technology and Medical Microbiology with well equipped laboratories and it also houses the Main Store.

Baba Kharak Singh Block
Baba Kharak Singh Block was inaugurated by H.E. Sardar Surjit Singh Barnala Governor of Uttarakhand and CM of state, Sh. Nityanand Swami, on 26th May 2001. Spread in an area of 40,000 sq. ft. the block consists of Department of Pharmaceutical Sciences. The block also has a large Examination Hall of approximately 8,000 sq. ft. with a seating capacity of more than 600 students. The lecture halls spread in an area of more than 5,200 sq. ft. are well designed which help in

Biotechnology Block
The newly constructed Biotechnology Block is an expansion wing of the Prof. Puran Singh block housing various labs and lecture & seminar halls for Biotechnology.
Talent wins games, BUT TEAMWORK WINS CHAMPIONSHIPS

One of the significant aims of sports is to instil among the students the cherished values of courage, confidence, optimism, team spirit and enthusiasm. Sports is an excellent medium to inculcate these values in the students and to prepare them mentally and physically for the challenges ahead in life.

It is our belief that sport activities are essential for the overall development of any student. We motivate our students to participate in different games and sports activities throughout the year. These activities help the student in relieving them from their hectic academic schedule and also keeps them fit and healthy.

Facilities for a large variety of games and sports are available in the Institute and even more are under development. All facilities, including professionally qualified sports coaches & modern amenities catering to various sports & games are provided to students. The Institute has sports field in both campuses for Cricket, Soccer, Volleyball, Basketball, Hockey, Baseball, Badminton, Handball, besides these facilities for Indoor Games like Table Tennis, Chess, Carom, Gymnasium are available in Hostels.
Talent wins games, BUT TEAMWORK WINS CHAMPIONSHIPS

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Hostel - “Nestling In Comforts”
Living in the hostel is an experience for the students which is cherished throughout one's life. It develops a sense of sharing and living together along with a feeling of belongingness towards the Institution.

We offer separate boarding facilities with modern amenities for both boys in Banda Bahadur Boys Hostel and girls in Mata Gujri Girls Hostel respectively. The Hostel buildings, infrastructure and surroundings are of its own class. There is no better place for you to appreciate the joys of nature and to become environmentally conscious than to be at our Campus. The view of Himalayas, the abundance of trees and chatter of a myriad variety of birds enhances the joy of living.

The Institute hosts more than 600 girls and 275 boys in “Mata Gujri Girls Hostel” and “Banda Bahadur Boys Hostel” respectively. The hostels comprise of 285 & 140 elegantly well furnished rooms in both the hostels respectively. Both hostels are equipped with hygienic mess facilities, well furnished reading rooms (provided with latest magazines and newspapers), A.C. recreation rooms with home theatre and indoor sports infrastructure.

Library - “The Knowledge Bank”
The Library is a rich learning resource and technological back-bone for all intellectual and academic activities of the Institute. The newly renovated & fully air conditioned library with a floor area of over 5000 sq. ft. functions with an "Open Access System" and is well equipped and organized into various sections manned by well qualified library professionals and highly experienced staff. The Library is enriched with adequate number of Text and Reference Books, and Periodicals totaling over 20,000 books, above 80 e-journals and over 85 selected current National and International Periodicals including Research Journals covering areas of Pharmacognosy, Pharmaceutics, Pharmacology, Medicinal Chemistry, Natural Products, Microbiology, Biotechnology, Environmental Sciences, Physiotherapy, Medical Sciences and other Allied Health Sciences are subscribed regularly. The Library has an outstanding reading room with the seating capacity of more than 200 students. The Library is fully computerized and supported by LIBMAN software package. The Institute also has departmental library in Physiotherapy Department.

Computer Centre and Internet Cafe
We are committed to providing best facilities available to support academic performance in this web age. For this, artistically and ergonomically designed state of art Internet cafe with dedicated 2Mbps high speed lease line has been built, where you can search for information about your research work and stay in touch with your friends in air conditioned environment. Internet and other facilities are provided to you at highly subsidized rates. Free Wi-fi is available in the Library & Hostel areas. There is a Computer Laboratory where you get an opportunity to develop your skills according to the global needs and International standards. A specially trained faculty looks after the Computer Lab. The Institute lays strong emphasis on the usage of computer education in curricular program. The Computer Lab is equipped with the latest software available.

Cafeteria
There is a separate cafeteria having seating capacity of around 200 students at a time, with well maintained lawn on one side and beautiful Shivalik Hill view on the backdrop. The cafeteria serves pure vegetarian Indian and Chinese food. Hygienically cooked & reasonably priced snacks are also served. An open area is available for the students to come together and enjoy academic and general conversations.

HEALTHCARE AND RESEARCH CENTRES
For the academic excellence of the students and for the treatment of the needy people, the Institute runs Physiotherapy Out Patients Department and Pathology Research Centre “Prayas” in Dehradun city at 41, East Canal Road; Bala Preetam Health Centre, Patel Nagar; Sports College, Raipur; Early Intervention Centre at Cheshire Home, 16, Pritam Road, Dehradun and OPD in Academic Campus of SBSPGI-Balawala, Dehradun. The Institute also arranges free medical health camps in different locations in and around Dehradun. The OPD’s have an average turnout of 250 - 300 patients giving the students hands-on experience for treatment of patients.

Students Health Card
Health Card of all the students is prepared after preliminary investigation and clinical examination. The ailment and treatment of the students during their stay in the Institute are recorded in these health cards. These health cards help in proper documentation of the ailments of the students, so that proper preventive measures can be taken.

The first year students of the Institute are vaccinated against HEPATITIS-B Virus. Vaccination for Tetanus and Typhoid is provided to the students when needed.
IN-CAMPUS FACILITIES

Bank:
Oriental Bank of Commerce has an extension counter window at the Institute located in the administrative block, giving easy access to the college students and the staff to withdraw and deposit cash. The bank is functional from 11:30 AM to 1:30 PM and is open on all working days. ATM also lies within the campus premises.

General Commodities:
Keeping in mind the daily needs of the students, items of daily needs such as Stationary, Medicines, Grocery Items, Xerox & Bakery products are available within the campus.

Accommodation for Guests & Faculty:
Residential campus is a scene of rapid construction and civil works towards providing residential accommodation to the faculty. Furnished flats are allotted to faculty member as required. The aim is to provide accommodation to each faculty and staff member of the Institute in the near future. Tastefully furnished guest rooms and suites are available for examiners, parents and other guests.

Connectivity:
The Institute is connected by regular local bus service available from Airport, Railway Station, Bus Stand. Besides this the Institute provides its own bus facility to local staff and students commuters.

Student Safety Insurance:
The Institute provides safety insurance cover of Rs. 1 Lac per student under “Student Safety Insurance Policy” provided by New India Assurance Co. Ltd, for which students have to pay a very nominal annual premium.
SCHOOL OF PHARMACEUTICAL SCIENCES & APPLIED CHEMISTRY

1) M.Pharm (Approved by AICTE)
   Pharmacaceutics, No.of seats: 36
   Pharmacognosy, No.of seats: 18
   Pharmacology & Toxicology No.of seats: 18
   Duration: 2 Yrs.
   Elig: B.Pharm with minimum 50% marks & 45% for reserved category.

2) B. Pharm (Approved by AICTE & PCI)
   Duration: 4 Yrs. No.of seats: 100
   Elig: 10+2 with min.45% marks (40% for reserved category).with Physics and Chemistry as compulsory subject and Biology / Mathematics / Biotechnology / Computer Science and English as a subject of study.
   Lateral entry in 3rd semester: Duration 3 yrs No. of seats: 24
   Elig: D.Pharm with min. 50% marks in aggregate.

3) M.Sc. Pharmaceutical Chemistry
   Duration: 2 Yrs. No.of seats: 25.
   Elig: B.Sc / B.Pharm with min. 45% marks.

4) M.Sc. Chemistry
   Duration: 2 Yrs. No.of seats: 30.
   Elig: B.Sc with min. 45% marks and Chemistry as one of the subjects.

SCHOOL OF LIFE SCIENCES

1) M.Sc. Biotechnology
   Duration: 2 Yrs. No.of seats: 30.
   Elig: B.Sc with min. 50% marks in Microbiology / Biotechnology / Biochemistry / Genetics / Industrial Microbiology / Botany / Zoology / Chemistry / Medical Microbiology / B.Sc. M.L.T.

2) M.Sc. Microbiology
   Duration: 2 Yrs. No.of seats: 30.
   Elig: B.Sc with min. 45% marks in Microbiology / Biotechnology / Genetics / Industrial Microbiology / Botany / Zoology / Chemistry / Medical Microbiology / B.Sc. M.L.T.

3) M.Sc. Biochemistry
   Duration: 2 Yrs. No.of seats: 25.
   Elig: B.Sc or equivalent with minimum 45% marks with Chemistry or Biochemistry as one of the subject.

4) B.Sc. Biotechnology with CBZ
   Duration: 3 Yrs. No.of seats: 60
   Elig: 10+2 with minimum 45% marks in PCB.

SCHOOL OF ALLIED HEALTH SCIENCES

1) M. Physiotherapy (Neuro, Ortho, Sports)
   Duration: 2 Yrs. No.of seats: 10 each.
   Elig: BPT with Min. 45% marks.

2) B.Physiotherapy (Approved by IAP)
   Duration: 4 Yrs & 6 months internship.
   No.of seats: 60.
   Elig: 10+2 with min. 50% marks in PCB.

3) B.Sc. Medical Microbiology
   Duration: 3 Yrs. No.of seats: 60.
   Elig: 10+2 (PCM/PCB) pass from a recognized board

4) B.Sc. Medical Lab Technology - Pathology
   Duration: 3 Yrs & 6 months internship.
   No.of seats: 60. Elig: 10+2 (PCM/PCB) pass from a recognized board or Diploma in MLT (recog. by state technical board).
SCHOOL OF PHARMACEUTICAL SCIENCES AND APPLIED CHEMISTRY

- School offers courses in Bachelor of Pharmacy, Master of Pharmacy (Pharmaceutics, Pharmacology & Toxicology, Pharmacognosy, M.Sc. Pharmaceutical Chemistry & M.Sc. Chemistry).
- All Departments of the school have experienced and professional teaching staff.
- Laboratories and classrooms are fully equipped as per requirements of the curriculum.
- Well placed alumni across the globe.

DEPARTMENT OF PHARMACEUTICAL SCIENCES

ABOUT THE DEPARTMENT

The Department came into existence in 1994. The admissions in B. Pharm. will be open for the 20th batch this year. The discipline of Pharmaceutical Sciences offers systematic study of synthesis, analysis, formulation, standardizations, marketing and dispensing of medicines. The subjects can be broadly classified as: Pharmaceutical Chemistry, dealing with synthetic drugs; Pharmaceutical Analysis, involving modern analytical methods and sophisticated instruments for quality control of basic drugs and formulation; Chemistry of Natural Products, explaining methods of isolation, purification, characterization and biological evaluation of phytopharmaceuticals; Pharmaceutics and Pharmaceutical Technology dealing with preparation of various dosage forms like tablets, capsules, injections, syrups etc; Pharmacology and Toxicology dealing with study of the action of drugs on living organism and their adverse effect and Pharmacognosy, a science dealing with drugs of natural origin like plants.

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<tr>
<th>Program</th>
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<tbody>
<tr>
<td>B. Pharm (Bachelor of Pharmacy)</td>
<td>Four Years</td>
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<tr>
<td>B.Pharm (Lateral Entry)</td>
<td>Three Years</td>
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<tr>
<td>M.Pharm (Master of Pharmacy)</td>
<td>Two Years</td>
<td>25</td>
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<tr>
<td>M.Sc. Pharmaceutical Chemistry</td>
<td>Two Years</td>
<td>30</td>
</tr>
<tr>
<td>M.Sc. Chemistry</td>
<td>Two Years</td>
<td>30</td>
</tr>
</tbody>
</table>

THE INCEPTION
1994
B.Pharm
Course Contents:
Pharmaceutical / Medicinal Chemistry, Chemistry of Natural Products, Pharmaceutical Analysis, Pharmacology, Pharmaceutics, Pharmaceutical Technology, Pharmacognosy, Hospital and Clinical Pharmacy, Pharmaceutical Biochemistry, Pharmaceutical Microbiology, Pharmaceutical Biotechnology, Pharmaceutical Management and Marketing etc.

Scope
A graduate in Pharmacy (B. Pharm) as a Registered Pharmacist, can establish a Community Pharmacy, setup a Pharmaceutical manufacturing industry and can start the production of medicine such as tablets, capsules, ointments, injections and oral liquid preparations, eye and ear drops etc. They may also setup a Quality Control and Drug Standardization laboratory.
In the government sector a pharmacist can work as a Drug Inspector, Drug Analyst, Chief Pharmacist etc. A post graduate in Pharmacy (M.Pharm) can be absorbed in Pharmaceutical Industry in Quality Assurance, Quality Control, Formulation Development, R&D, Production, Pharmacovigilance, Drug Regulatory Affairs and Intellectual Property Rights etc. departments.
With a management degree, a B.Pharm / M.Pharm can hold the responsibilities of marketing division and HR Department. If interested in academics, after obtaining an M. Pharm./Ph. D. degree, one can pursue a career in teaching.

M.Pharm
Scope:
A Post Graduate in Pharmacy can pursue his / her career in following areas.
1. May be absorbed in Industrial Research and Development (R & D), Formulation Development (FND), Production & Intellectual Property Management Rights (IPMR) department, Drug Regulatory Affairs.
2. Can join Nutraceutical, Herbal, Cosmoceutical and Preclinical & Clinical Trial department in various industries.
3. Can join Govt Research organisations and pursue career in academics.
4. Can pursue higher studies in India and abroad.
5. Can join as Drug Regulatory Affairs Officer & Pharmacovigilance Officer in a reputed firm.

FACULTY BASE:
The department has well qualified and experienced faculty members specialized in various fields of Pharmaceutical Sciences & Chemistry. Several faculty members are doctorate. The faculty is actively engaged in Research with few of them pursuing their PhD's. They are continuously enriching themselves professionally by attending workshops, symposium re-fresher courses and conferences at National and International levels. Faculty members & students have won the Young scientist awards at Uttarakhand Science Congress, and other conferences.

DEPARTMENTAL HIGHLIGHTS
- Pioneer in Pharmaceutical Education in the region (Since 1994)
- Well qualified and experienced faculty with PhD’s from reputed universities
- Hi Tech instrumentation laboratory and machine room.
- Excellent International & National publications record (more than 100)
- Placements in highly reputed pharmaceutical companies
- Excellent results in university examination
- Students qualified various national level examinations, GPAT & CAT.
- Broad alumni base serves as backbone in placements of students
- Department actively involved in scientific research projects sanctioned by UCOST, NMPB, DST & DSIR, AICTE-MODROB etc.

Key Strengths
- Development of new drug derivatives
- Natural remedies
- Standardization of Herbal Drugs
- Novel drug delivery systems
- Analytical approaches

Placements: Our students are well placed in various reputed companies like Ranbaxy, Eli Lilly, Jubilant Chemsys, Indswift, Cipla, Alembic to name a few.
DEPARTMENT OF APPLIED CHEMISTRY

ABOUT THE DEPARTMENT

Chemistry is a fundamental science and has contributed immensely to the improvement of the human life on this planet. The developments in chemistry during the last few decades have been phenomenal because of rediscovery of importance of Chemistry in virtually all walks of life. This has resulted in increased demand of qualified and hardworking chemists in almost all industries like bulk chemicals, pharmaceutical, glass, oil and paints, minerals, cement, herbal cosmetics and many more. SBS holds the privilege of introducing Department of Applied Chemistry running two programs MSc Pharmaceutical Chemistry (since 1997) and MSc Chemistry (since 2012). Seventeen batches of MSc Pharmaceutical Chemistry and First batch of M.Sc Chemistry have passed out successfully from the institute. The Department of Applied Chemistry has been a centre for excellence due to its high placement record & inventory presence in the field of research and publications.

Students of M.Sc Chemistry are trained in theory and fundamentals of chemistry so that they possess good theoretical background of various concepts such as organic synthesis, analytical chemistry, pharmaceutical and bioanalysis etc.

Students of M.Sc Pharmaceutical Chemistry learn basic analytical techniques, technical inputs of the instruments, their application and usage in the pharmaceutical industries for drug assays, leading to Quality control of the drugs. Basic techniques involved in synthesis of drugs, purification and spectral analysis are also taught so that research and development in the field of medicines also becomes an area for their absorption in various R&D organisations and industries.

DEPARTMENTAL HIGHLIGHTS
· Pioneers in Pharmaceutical Chemistry since 1997
· Well qualified and experienced faculty with PhD's from reputed Universities
· Excellent International & National publications record (More than 180)
· Placements in highly reputed pharmaceutical companies
· Excellent results in University examinations
· Students qualify GATE/NET national level examination
· Broad alumni base serves as backbone in placement of students
· Department actively involved in scientific research projects sanctioned by UCOST, NMPB, NMPB, DST & DSIR etc

KEY STRENGTHS
· Development of new drug derivatives
· Natural remedies
· Standardization of Herbal Drugs

FACULTY BASE:
The Department has well qualified and experienced faculty members specialized in various fields of Pharmaceutical Chemistry & Chemistry from reputed Universities like BHU, HNBGU, IIM, Jammu etc. All faculty members are doctorate in specialised branches like organic, analytical, inorganic physical & Pharmaceutical Chemistry. The faculty is actively engaged in research & out come of this research is visible in the form of publications in International & National Journals. They are continuously enriching themselves professionally by attending workshops, symposium refresher courses and conferences at National and International levels. Faculty members & students have won the Young scientist awards at Uttarakhand Science Congress, and other conferences. The Faculty is also acting as resource person in various workshops & symposium.

Research Activities
The Department is actively involved in Research Activities such as:
· Phytochemical and Pharmacological screening of various medicinal plants of Uttarakhand.
· Isolation and Identification of active principle from medicinal plants.
· Synthesis and evaluation of biological activities of various heterocyclic compounds.
· In-vitro Evaluation of dosage forms. Development of novel drug delivery system (Transdermal, Sustained release drug delivery and ionophoretic techniques).
· Development of Polyherbal Formulations.
· Development of newer analytical techniques.
· Kinetic and Thermodynamic aspects of Enzyme substrate interaction.

The output of these research activities are being continuously communicated to various National and International journals.
Research grants of several lakhs have been given by various prestigious organizations like Dept. of Scientific and Industrial Research, Ministry of Sciences and Technology, National Medicinal Plant Board, Department of Ayush, Ministry of Health, New Delhi Govt. of India, and UCOST. Besides students and faculty members have been awarded young scientist award in Uttarakhand Science Congress, and other International conferences for their research work. Ten students have been awarded PhD degree and few students are enrolled for PhD programme from different universities like HNBGU, Jodhpur National University, BIT Ranchi, UTU etc.,

Placement
The students of Pharmaceutical Chemistry are well placed in various multi-national companies such as Dr. Reddy's Laboratory, Ranbaxy, Cipla Ltd, EII Lilly & Co, Teva Pharmaceuticals, Jubliant Chemsys, Cryo International Pvt. Ltd., Windlass Biotech Ltd, Brindavan Beverages etc. as Manager, Research Scientists, Manufacturing / QC Chemist. More than 10% students are pursuing higher studies in foreign countries like USA, UK in different disciplines.

M.Sc. Pharmaceutical Chemistry
Course Contents
This course is so designed to train the students to work as professionals in Pharmaceutical, Nutraceutical, Cosmeceutical, Chemical & Herbal Drug Industries. The comprehensive syllabus for this two year PG course include Chemistry of Natural Products, Basic Pharmacology, Biochemistry, Stereochemistry and Reaction mechanisms, Quantitative analytical methods, Drug design, Drug delivery systems, Bio-pharmaceutics, Chemotherapeutic agents, Pharmacodynamic Agents, Applications of Computer and Biostatistics and Modern Analytical methods. Apart from the above theoretical aspects, great emphasis is given on practicals so that students are well versed with various techniques / instruments used in various R&D units of Industry, advanced research & higher studies.

Scope
- A Post Graduate in Pharmaceutical Chemistry can pursue his/her career in following areas:
- May be absorbed in Industrial Research and Development (R&D) as Research Associate (RA), in Quality Control (QC) / Quality Assurance (QA), as an Analyst; as a Production Chemist in bulk drug Industry and can rise to the level of Asst. General Manager and Group Leader in R&D etc.
- May be absorbed in Pharma. marketing/ sales as a Territory Business Manager and can rise up to AGM, GM Sales position.
- After qualifying NET & GATE the student can pursue his/her career in teaching or further obtain higher qualifications like M.Phil & PhD.
- Can go abroad after qualifying GRE/TOEFL/IELTS for pursuing higher studies/jobs.

M.Sc. Chemistry
Course Contents
Students are trained in theory and practical in fundamentals of chemistry so that they possess good theoretical & practical background of various concepts such as organic synthesis, analytical chemistry, pharmaceutical and bioanalysis etc. The syllabus has four theory and two laboratory courses in each semester. Course makes students to learn basic organic, inorganic, physical chemistry and basic analytical techniques in the first year with specializations in organic and analytical chemistry in second year. Basic techniques involved in synthesis of drugs, purification and spectral analysis are also taught so that research and development in the field of medicines also becomes area for their absorption in various R&D organizations and industries. Thorough knowledge of bio-organic molecules is also imparted to the students leading them to show their expertise in development of plant based drugs. Also a complete knowledge in the field of metal extraction and processing is covered so as to get them absorbed in metallurgical and mineral industries. Thorough knowledge in the field of group theory and spectroscopy so as to make students well aware with analytical techniques required for the industries and make their absorption as quality control / quality assurance chemist in various industries.

Scope
- Students get absorbed as scientists in various R & D organizations and in wide range of Industries like pharmaceutical, bulk chemicals, mineral industry, oil and Paints etc.
- Students can pursue their carrier in teaching after qualifying NET/GATE & pursue research also.
- Can go abroad after qualifying GRE/TOEFL/IELTS for pursuing higher studies/jobs.
- Can get absorbed as chemist.
SCHOOL OF LIFE SCIENCES

This School with emphasis on multi-disciplinary approach, offers courses in Biochemistry, Biotechnology & Microbiology. Courses in specializations of Food Technology are also proposed in near future. Highly qualified faculty drawn from reputed universities & premier research institutes, the performance & placement of the students has assigned a distinct status to these departments. The Departments of Microbiology, Biochemistry & Biotechnology are spread over an area of 30,000 sq. ft. The Departments are regularly engaged in quality research work and have marked considerable progress. Faculty is engaged in investigations in the field of Bioprospecting, Biodegradation, Molecular Biology, Antibiotics production, Proteomics, Immunology and Protein Biochemistry, Microbial Technology and Food and Industrial Fermentations.

DEPARTMENT OF MICROBIOLOGY

ABOUT THE DEPARTMENT

Established in 1996, the Department of Microbiology was the first to start M. Sc. in Microbiology in the region in private sector. Since then more than 400 students have passed out and are serving as Microbiologists in leading National and Multinational companies and Institutes of Higher Education & Research. The Department has fully equipped modern laboratories with all basic amenities required for practical training of the students so as to make them proficient enough to compete at National and International level in various areas of Microbiology. The facilities such as PCR Thermal Cycler, HPLC, Electrophoresis, Gel documentation System and Fermentation Unit are also available in the Central Laboratory of the Institute for the use of students. The Department has a good collection of microorganisms of industrial, agriculture, food and medical (pathogenic) importance.

DEPARTMENTAL HIGHLIGHTS

- A centre of academic excellence in the field of microbiology
- Emphasis given on overall development of personality for a successful career in microbiology
- Exhaustive training given in microbiological techniques (Isolation, Maintenance, Growth, Industrial application and genetic engineering of microorganisms)

THE EXPERIENCE AT SBSPGI ENRICHED ME WITH THEORETICAL AND PRACTICAL KNOWLEDGE.
Microbiology, the science that deals with the tiny creatures invisible to naked eye is considered to be the mother and microorganisms as the backbone for research in all biological sciences including biochemistry, genetics, evolution, biotechnology, genetic engineering, molecular biology and pharmaceutical sciences. Life not only began with microorganisms, the continued existence of life on earth totally relies on these otherwise inconspicuous microbes. According to one of the estimates, there are around $5 \times 10^{33}$ microbial cells, weighing more than 500 trillion metric tons on this planet that affect life as well as the physical and chemical make-up of our planet. They have done so since the origin of life. No other group of organisms can make such a claim. **LIFE WITHOUT ALL OTHER CREATURES IS POSSIBLE, BUT LIFE WITHOUT MICROBES IS NOT.** Consequently, it is believed that one cannot carry out in-depth studies of any branch of biology or geology without taking into account the activities of microbes. As such it is difficult to ignore their importance to the biosphere. Microorganisms have a central importance in carrying out the cycles of gases and nutrients that sustain all life and thus affect conditions on this planet. By cycling these elements in soils, microbes regulate the availability of plant nutrients, thereby governing soil fertility and enabling the efficient plant growth that sustains human and animal life. By recycling of elements they not only provide essential nutrients for the growth of plants, they act as scavengers of garbage that otherwise will accumulate and make human living miserable on the earth planet.

Microorganisms are also determinants of human health and the source of critical materials for medical and industrial use. Pharmaceutical research depends heavily on microbes and microbiology for discovery and production of new drugs. Biotechnology too, relies on microbial technologies and microbial genes for carrying out modifications that improve crops, breeds of livestock, and synthetic feedstock. In agriculture, microbes and microbial products are used in probiotic therapies, antibiotics, and pest control measures. Advancements in food microbiology have improved the safety of the food we buy in our supermarkets and restaurants. At hazardous waste sites, microbes have been put to work digesting noxious chemicals metabolizing them into harmless materials, thereby preventing further contamination of soil and water. Bioterrorism and disease are frightening, but progress in microbiology and advancements in applying microbes to solve seemingly intractable human problems should also be kept in mind. Hence, the study of microbes is pivotal to the study of all living things and Microbiology is essential for the study and understanding of all life on this planet. One must remember that microbiology is the CORE and not a branch of Biology. Today, Microbiology is in the headlines more than ever before. Therefore educating young people about microorganisms and their activities is critical.

**M.Sc. Microbiology**

**Course Contents:**

As per syllabus of H. N. B. Garhwal University, Srinagar (U. K.), a Central University, the various subjects covered in two years are Bacteriology, Virology, Mycology & Phycolgy, Biochemistry, Microbial Physiology, Molecular Biology and Genetics, Immunology, Cell Biology, Biological techniques, Food Microbiology, Cellular Microbiology, Medical Microbiology, Recombinant DNA Technology, Soil Microbiology, Industrial Microbiology, Environmental Microbiology, Biostatistics and Computer Applications and Microbial Diversity.

To develop an aptitude for research the curriculum also includes Project Work, whereby a student is required to work on a project under the supervision of a faculty member and submit report on the research conducted in partial fulfillment for the award of degree of M. Sc. in Microbiology.

During two years of M. Sc. programme the students undergo rigorous training in microbiological methods, research skills, interpretation and presentation of the research data. The training is designed in a manner that makes them competitive enough to pursue their career independently in industry, research or teaching. The emphasis is also given on the development and improvement of communication skills through seminars and discussions for all round development of the students. The students are also encouraged to participate in Science Day Celebration, Scientific Model Competitions, Poster Presentation and Educational tours to premier research institutes and industries.

**Research activities**

Food safety and security, emergence of globally significant diseases, threat of bioterrorism, and failure of formerly effective antibiotics and large scale contamination of dairy and food products has made research as an inseparable component of teaching science in general and microbiology in particular. The Department of Microbiology is actively engaged in the research and the major interests include screening and probing of microbes for the production of value added products, screening of medicinal plants of Uttarakhand for their antibacterial and antifungal potential, rhizobacteria (PGPR), study of microbial diversity, food fermentations, bioremediation and molecular biology.

**Placements**

The Institute organizes in campus interviews for the placement of successful candidates at the end of each academic session. Our
students have succeeded in getting magnificent opportunities in Research & Development units of some of the reputed multinationals in the field of Food and Beverages, Diary products, Pharmaceuticals etc. Our students have been successfully placed in various industries such as Nestle, Johnsons & Johnsons, Panacea Biotech, Riceland Biotech Ltd., Vindavan Beverage Ltd, Windlax Biotech, Revlon Ltd, Ranbaxy, Torex Pharmaceuticals, Ban Labs, SIDMAC, Jubilant Organosys, WIPRO (WISTA), Pepsi, Bisleri, Dabur, Parley foods, Clover Organic, Jubilant Life Sciences, Mankind and Institute of Genomics & Integrated Biology, New Delhi, Sanjay Gandhi PG Institute, Lucknow, IARI New Delhi etc.

Scope

Microbiology is not a single subject but it is an umbrella, which offers a range of specializations. A microbiologist has much more opportunities today than at any time in the history of microbiology. Today microbiologists are employed in Institutes of Higher Education, Research and Development in academic institutes and industry. A microbiologist employs microorganisms in a number of ways such as applications in the genetic engineering of crops and gene therapy. It is intimately connected with microbiology and thus calls for the skills of a microbiologist to execute the work that holds the potential to improve the quality of human life. Without a profound grasp of microbiology much of biotechnology is not possible. Bioterrorism has defined a need for new and improved infrastructures to address issues related to national security world over. Study of microbiology is the key to proper execution of these new security measures and the opportunities are abundant and diverse. To fulfill the demands of environmentalists, industry is bound to reformulate many of its traditional chemically-catalyzed processes into more environment friendly alternatives and products through biocatalysis, both for biosynthesis of value added molecules or for biodegradation and removal of pollutant. The emerging interfaces between chemical engineering and microbial genetics/metabolism will create countless job opportunities for those who seize the right training early enough in the process. Today the threat of microbial resistance to antibiotics looms large and demands for newer broad spectrum antibiotics. This is where the skills of a trained microbiologist are vital in the field of pharmaceutical sciences. Green chemistry, in which microorganisms are employed to carry out industrial processes in eco-friendly manner, is an increasingly effective strategy for tackling issues of safety and sustainability in chemical related industries and mining. This relatively new field will thus offer a chance for microbiologists to work at the forefront of developing sustainable technologies in the field of metallurgy and mining.

Microorganisms have been used to control crop pests as early as in the 18th century. Today Bacteria, viruses, protozoa and fungi, the primary groups of microorganisms are known to reduce insect populations. These organisms often occur naturally in fields and function as a component of biological control. Research on these microorganisms as “biopesticides” has resulted in the ability to isolate culture and formulate some for use in integrated pest management. Another, however controversial way to deliver these insect-specific toxins to the target pest is through genetically modified plants, such as those modified to express Bacillus thuringiensis (BT) toxins. Avenues in institutes of learning are enormous and one can opt for teaching, one of the noble and most dignified professions.
ABOUT THE DEPARTMENT

The Department came into existence and functioning in the year 2001. Admissions will now be open to 14th batch of M.Sc. Biotechnology, 13th batch of M.Sc. Biochemistry and 10th Batch of B.Sc. Biotechnology with CBZ. The objective of the Department represent a departure from the scholastic oriented education to function primarily as an instrument of development through integrated research, teaching and extension. The imperative is reflected in high profile of the faculty committed to take a holistic view of development ensuring inter-disciplinary research and synthesis of ideas emanating from different disciplines of science.

Life is mechanically a chemical process, so everything in Biology is due to events governed by the laws of Chemistry. To study the Chemistry of living organisms, chemical basis of life and insight into the Chemistry and Physiology of living systems at molecular level is therefore of great medical importance. No field of science has seen a vast expansion as has been encountered in the field of Biochemistry. There is no doubt that Biochemistry is the most diversified of all the natural sciences, exhibiting a bewildering array of sub-disciplines and paving the path for growing of newer off-shoot specialities like Molecular Biology, Molecular Cell Biology, Immunology, Molecular Genetics, Medicinal Chemistry, Pharmacology, Clinical Sciences, Food Sciences and of course Biotechnology & Nanotechnology. In every sphere of life, Biochemistry is forming an important CORE around which Life Sciences are revolving.

Biotechnology is purely an interdisciplinary pursuit. It may rightly be regarded as a major offshoot of Biochemistry with foundations in many fields including Microbiology, Molecular Biology, Genetics, Chemistry, Biophysics, Chemical & Biochemical Engineering. This has led to the emergence of the new interdisciplinary area of study, with the eventual crystallization of new disciplines, concepts and methodologies. Chemical Engineering, Microbiology & Biochemistry are the three well recognized pillars that have done much to the development of Biotechnology. This enables a series of technologies involving the practical applications of organisms or their cellular components in manufacturing, service industry and environmental sciences encompassing the wide range of new products including antibiotics, vaccines, monoclonal antibodies, transgenic plants and animals, gene therapy agents. Remediation of land and water pollution generated by over industrialization is taken care by Biotechnological and Biochemical approaches.
The Department has a strong faculty base with varied expertise and training in terms of their Doctoral work, in the field of Fermentation Technology & Bioprocess Engineering, Environmental Biotechnology, Plant Biotechnology & Tissue Culture, Cell Biology & Animal Biotechnology, Microbiology & Immunology from the premier institutions of the country i.e. IIT Roorkee, JNU-Delhi, FRI - Dehradun, IIT BHU Varanasi, WII Dehradun, KGMC Lucknow, AMU Aligarh, Allahabad University, Allahabad, BHU Varanasi, DRDO New Delhi, DU etc., they serve to produce knowledge / database, acquire capability to decipher and adapt knowledge produced else where and create an intelligent human power. The faculty keeps on enriching themselves by getting exposure at different workshops, conferences and refresher courses at institutions of repute in the country and abroad.

M.Sc. Biochemistry

Course Contents: The Department grooms students by imparting in-depth knowledge (both theoretic & practicals) of various core courses and inter-disciplinary courses like Organic Chemistry & Biomolecules, Bioenergetics & Intermediary Metabolism, Enzymology, Biochemical & Biophysical techniques, Plant Biochemistry, Cell Biology & Industrial Microbiology, Immunology & Advance Molecular Biology, Nutritional & Clinical Biochemistry, Biostatics, Bioinformatics and quality control. Students are involved in research activities by assigning them research projects under the supervision of faculty members which run parallel throughout the final year academic session. Students are also encouraged for short time research training in R&D laboratories of premier institutes and industries of the country.

Scope

After passing M.Sc. & qualifying NET/GATE the candidates can either do higher studies (Ph.D.) or seeking Junior Research Fellowship. If he/she qualifies GRE/TOEFL etc., the candidates can seek higher studies at any Institute abroad. After completion of Ph.D. in Biochemistry plenty of job opportunities are there in the various fields like production of antibiotics, vaccines, genetic engineering, combinatorial chemical products synthesis. Students may take up teaching as a Assistant Professor in a University / College. The candidates may get a job of a Biochemist/ Scientist Officer either in Laboratories or Industries or research Institute. He/she can be appointed as a Biochemist / analyst in a forensic laboratory. The candidate can setup his/her own biochemist/pathology/diagnostic lab in

DEPARTMENTAL HIGHLIGHTS

- Excellent Infrastructure with state of the art laboratories equipped with sophisticated instrumentation facilities.
- Strong faculty base having doctoral degree from premier research Institutes / Universities of the country
- Maximum number of sponsored research projects sanctioned by different Govt. agencies in any self financing Institute in State of Uttarakhand.
- Healthy faculty student ratio
- Maximum University toppers
- Excellent student performance / placement in terms of PhD at National and International level
- Industry preparedness / work proficient biotechnologists & biochemists, facilitated by consistent exposure in frontier areas of Biotechnology and Biochemistry.
association with the medical practitioner. They can be appointed as a biochemist/ sales / marketing executive in companies manufacturing culture media, diagnostic kits and various types of experimental kits used in genetic engineering. The candidates can get a job as biochemists in distilleries, wine making beverage industries, petroleum exploration industries, metal extraction industries, water purification and waste treatment systems, as production executive in fermentation based Pharmaceutical Industries/ Dairy Industries/ Food Industries / Quality Control Department of above industries.

Research Activities
The faculty is actively engaged in research activities in the field of Proteomics, Biodegradation of Xenobiotics, Bio-remediation, Protein Biochemistry, Enzymology, Immunobiology of Parasites, Molecular Immunology, Free Radical Biochemistry, Genetic Engineering and Clinical Biochemistry, Molecular Biology, Industrial Biotechnology, Pharmacogenomics, Blood Biochemistry, Ageing and Heart diseases.

B.Sc. Biotechnology with CBZ

Course Contents: The curriculum involves the in-depth study of subjects of Biology i.e. Zoology, Botany and Chemistry. The course is further enriched by the basic study of subjects like Biochemistry, Biophysics, Cell Biology, Bioinformatics, Microbiology, Molecular biology, Genetic Engineering, Plants & Animal Biotechnology, Environmental & Industrial Biotechnology, Bio-diversity & Bioprospecting and various other advanced techniques. Further the student has to undergo a project/dissertation work for 8-10 weeks under the guidance of faculty members which helps to develop an aptitude for research.

Scope: The advantage of studying this degree course is that the candidate can further pursue higher studies (Masters level) in specialized field of Sciences i.e. Biotechnology, Microbiology, Biochemistry, Molecular Biology, Genetics, Plant Molecular Biology, Medical Biotechnology etc.

The candidates have an option for furtherance of their studies in any discipline for their Masters Degree in fundamental sciences. This program has been inculcated in the stream of education with a view of opening simultaneous avenues for students doing Graduation in Sciences to have an exposure of Biotechnology.

The candidate passing this course can be appointed as sales/marketing executives in companies manufacturing, microbiological media / diagnostic kits or biotechnological products. Their knowledge of fundamentals of Biotechnology will be an asset for their performance.

The candidate can also go for Masters in Business Administration (MBA in Biotechnology). This will further strengthen their managing acumen in Biotechnology related industries.

The candidate after passing this course can also opt for Law (IPR & Biotechnology) which is a highly specialized profession and after the advent of IPR Laws in present global scenario this will be most sought out job. The degree with an integrated approach with Biotechnology bias will be an added advantage for the candidate. The candidate after passing this course can also opt for Masters in Clinical Research which will open a new realm of Medical Sciences for the development of drugs for human use.

M.Sc. Biotechnology

Course Contents: Biomaths, Biostatistics & Computer Fundamentals, Biochemistry, Molecular Biology & Molecular Genetics, Instrumentation and Techniques, Hybridoma and Radio Isotopic Technology Microbiology and Immunology, Membrane, Biophysics, Cell and Developmental Biology, Enzymology and Protein Engineering, Cell and Tissue culture, Recombinant DNA Technology & Genomics, Pharmaceutical Biotechnology and Drug Design, Fermentation Technology, Computational Biology & Bioinformatics, Project/dissertation work.

Scope: A postgraduate in Biotechnology may find berth in various fields as industries, teaching, higher studies and research in applied aspects of the above and successfully place himself in Bioprocess Technology, Enzyme Technology, Waste Technology, Environmental Technology, Renewable Resources Technology, Plant and Animal farming, Agriculture, Healthcare, Plant Biotechnology, Animal Biotechnology, Bioinformatics, Marine Biotechnology, Industrial Biotechnology.

Research Activities
Biotechnology encompasses all the basic, applied and engineering sciences, so it becomes more realistic in our approach to give a proper orientation and research aptitude in the varied advance area of biotechnology in which the department is engaged. Presently the Department is having expertise in the field of Microbial bioprospecting,
Fermentation Technology & Industrial Biotechnology, Molecular Diversity of Medicinal Plants, Plant Biotechnology and Tissue Culture, Cancer Biology in Animal Models, Animal Biotechnology, Genetics, Immunology & Biochemistry. The Department is equipped with all instrumentation facilities to carry out the research in above frontline areas of Biotechnology.

The major aims are:

- To impart in-depth knowledge of frontline areas in Biological Sciences with Biotechnology bias.
- To generate high quality human resource capable of applying Biotechnology to basic problems to science as well as human welfare.
- To carry out high quality applied research in areas of relevance.
- To bring science to the society.

The Department is fully equipped with sophisticated instruments like imported and indigenous UV Visible spectrophotometers (Shimadzu, Japan and Systronics, India), ELISA plate reader (Multi-scan), Electrophoretic apparatus (Biometra-Germany), Electrobottler, Gel rocker/shaker, pH meters, Balances (electrical & electronics), Centrifuges (refrigerated & non-refrigerated), Cryostat, -20°C Vest Frost, Laminar Air flow benches, Autoclaves, Incubators, Hot air ovens, Serological Water Baths, Refrigerators, Microscopes, De-ionized & RO water plants (Millipore) etc. Thermo cycler (Eppendorf, Germany), Microfuge (Eppendorf, Germany), Gel Doc System (UV Tech, Nugene USA), Hybridization Oven (Nugene, USA), Cryostat -80C (New Burnswick, USA) & Incubator Shakers (New Burnswick, USA). The state-of-art laboratories in terms of Molecular Biology, Fermentation Biotechnology, Environmental Biotechnology and Biochemistry are an added asset to the department. The Department is absolutely concerned with excellence in quality teaching and research. This coveted position is achieved on strict quality parameters; quality of students, faculty and quality of processes, which include dynamic interaction with other academic institution of excellence.

Placements

Students of Biotechnology are continuously exposed to the working cultures of the various laboratories / industries actively engaged in the frontier areas of biotechnological research. The Department maintains cent percent allotment of the students for formal 6-8 weeks summer training in top-notch laboratories / industries in the country which include IVRI - Izzat Nagar, Ranbaxy Research Ltd. Gurgaon, INMAS, NICD, NII, TERI, IGB, ICGEB, Panacea Biotech., AIIMS - New Delhi, CDRI, CIMAP, NBRI - Lucknow, CRI - Kasauni, Dabur Research Foundation - Ghaziabad, CCMB, CDFD - Hyderabad, Bose Institute, Indian Center for Cultivation of Science, IICB - Kolkata, IGL - Kashipur.


After completion of M.Sc. Biotechnology students are getting good placement opportunities in Industries Research as well as teaching Institutes. Students are qualifying for CSIR-UGC, NET, GATE etc. Within the twelve batches of passed out students, 42 of them have qualified NET exams to pursue higher studies in the field of Biotechnology, others have got jobs in different industries and academic institutions of the region.
Established way back in 1996, the Institute is the first to offer Bachelor of Physiotherapy (B.P.T.) program in the whole region. Currently the Institute runs Bachelor of Physiotherapy under the affiliation of HNB Garhwal University, Srinagar, Uttarakhand. Owing to the need of specialized education, the Masters Program (M.R.T.) in Physiotherapy was started in 2002 with specialization in Musculoskeletal, Neurology and Sports rehabilitation under the same university. The Department is now housed in a new block with overall covered area of 13,000 sq.ft. The 6 Out Patient Departments comprise an area of over 12,000 sq.ft. The Department has ergonomically designed lecture halls and hi tech labs. The goal is to produce skilled and efficient physiotherapists who have sound theoretical knowledge and have the ability to transfer the learned skills to clinical practice, for the upliftment of the profession and service to mankind.

Physiotherapy is that branch of Medical Science which helps to restore, maintain and promote optimal physical health. It not only helps to diagnose the extent & nature of neurological, musculoskeletal or sports related impairments, but also applies scientific management strategies to treat them. Physiotherapy is a health care profession concerned with the assessment, maintenance and restoration of physical functions and performance. The contribution of physiotherapy to India's Health Care System is linked inextricably to the changes that shaped our country from treating war amputees and earthquake victims to paralytic patients or those requiring post operative care. The innovative physical therapy of current times focuses on functional restoration of life style and has carved a niche for itself in patient care.

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FACULTY BASE

The Department is pillared by extremely dynamic post-graduate faculty members. They are engaged in conducting regular scheduled curricular classes involving theory, practical exposure, evidence based practice and research work. The faculty has a varied background of teaching and clinical experience from premier institutes, hospitals and rehabilitation centers. Actively involved in research, the faculty has published and presented several papers in journals and conferences respectively.

Bachelor of Physiotherapy (B.P.T.)

Course Contents The students undergo a vigorous academic program and in the 1st year, the subjects undertaken are Human Anatomy, Human Physiology, Biochemistry, Basics of Physiotherapy & Social Psychology.

In the 2nd year, the students are given practical as well as theoretical knowledge regarding Electrotherapy, Exercise Therapy, Biomechanics along with other subjects viz. Microbiology, Pathology & Pharmacology. The 3rd year gives the students full clinical orientation of Gen. Medicine, Gen. Surgery, Orthopaedics, Neurology, Psychiatry & Cardiothoracic conditions as well as knowledge of Disability Prevention & Rehabilitation.

In the 4th & final year, the students take over vigorous Physiotherapy training regarding management of Orthopaedic, Neurological, Cardiothoracic, Pediatric & Surgical Conditions. The Institute has its own 6 successfully running O.P.D’s. Prior to starting of compulsory rotatory internship, the final year students are supposed to submit a Research oriented dissertation.

Master of Physiotherapy (M.P.T.)

Musculo-skeletal, Neurology and Sports

Owing to the need of specialized education after Physical Therapy graduation, the Institute started up Post-Graduate programs in Physiotherapy with specializations in Musculoskeletal, Neurological Disorders and Sports Rehabilitation.

Course Contents The first year of the Master's Program consists of theoretical classes focusing on Basic & Advanced Therapeutics as well as routine clinical postings for stipulated hours for the students. The second & final year include theory classes, clinical postings, seminars, hands on workshops, dissertations & research work as per respective specialization. The Master's students take up their final year University exam at the end of second year along with their dissertation submission. The weekly schedule also includes case presentations, clinical discussions and journal clubs to keep the students updated about the recent advancements in the field of physiotherapy. PG Final Year Students have to undertake a dissertation work under the supervision of a guide and co-guide from the Institute.

DEPARTMENTAL HIGHLIGHTS

- More than 60% of the alumni placed abroad in countries like UK, USA, Canada, Australia etc.
- Staff Student Ratio of 1:3 in MPT and 1:5 in BPT
- Workshops of International & eminent national faculty conducted every year for the students free of cost.
- More than 300 patients treated everyday in various OPDs by the students and faculty members.
- Excellent results in both Bachelors and Masters of Physiotherapy.
Workshops by International & National Speakers

On a routine basis the Institute organizes special workshops and seminars on recent advancements in the various fields of Physical Therapy, under which eminent International and National resource persons are invited to enlighten, both the UG & PG students from time to time. To name few of them are Mr. Timm Mann (Mulligan's Manual Therapy), Ms. Mary Brunet (McConnell Taping Techniques), Mr. Micheal Alexander Hutson (Myofascial Release), Mr. Micheal Laundrett (Advanced Taping Techniques), Dr. Ali Irani (Disaster Management), Dr. Ashish Kaushik (Manual Therapy Skills), Helen Millison (Core Stability), Joy Godrum (Chiropractry).

Other learned speakers who have enlightened the students in the last academic year are Dr. Pyush Jain (Kinesiology Taping), Dr. K Ganesan (Pilates and core stability), Dr. Sarvanan Suvinidhi (Neuro Developmental Therapy), Dr Harpreet Singh (Proprioceptive Neuromuscular facilitation), Dr. Shabnam Agarwal (Therabands / Theratubes and Physioball exercises).

Guest Lectures: Lecture on chiropractic techniques by Dr. Jimmy Nanda, renowned Canadian chiropractor and Founder and President of Indian Asso. of Chiropractic doctors.

Transcripts for Smooth Foreign Credentialing

The only Institute which has well crafted transcripts that also include those elective courses which will facilitate credential evaluation for foreign countries. Perhaps, that is the reason that around 40% of the Institute's alumni are successfully placed in countries like USA, Canada, London and Australia.

Clinical Exposure / OPDs

The Institute runs six specialized OPD's where the students are trained and exposed to clinical aspects of Physical Therapy under the supervision of experienced faculty. Pertaining to the area of specialization, the Institute successfully runs 6 fully functional OPDs. Be it patients of neurological disorders, musculoskeletal ailments or sports injuries, the written record of OPD exceeds over 300 patients per day and the students get ample opportunities to bank on their knowledge to be a better Clinical Therapist.

Research Activities

Research by the students is a never ending process in the Institute's research labs. In a short span of five years, more than 300 papers have been presented by various members of the department at various National and International Conferences. The students of Physiotherapy strive for excellence and have been bringing laurels for their acknowledged research work by winning at various conferences like IAP Conference, Conference of Uttarakhand Council of Science & Technology, ANCFT Conference AllIMS, New Delhi, PHYSIOCON and Sports Medicine Conference organized by Indian Federation of Sports Medicine etc. The students have already completed successful dissertations on topics like MNCV, EMG, Isokinetic Dynamometer, Skin Sensory and Thermal Threshold Analyzer, Body Composition, Trigger Point Determination, LASER, Combo Electro Therapy Unit and Gait Analysis at various National level Institutes/Hospitals.

Scope

As a skilled Physiotherapist, the sky is the limit. One has a choice from a huge horizon of potentials to earn a respectful & wealthy living. Choices are many, it could be a platform to open up one’s own practice in the form of a clinic or out patient department or be a part of medical team in hospitals in India or abroad. One could also attach with a national or state sports team or be a consultant for a fitness centre. Teaching assignments & research are yet other potential aspects which one could look into with the profession.

Outdoor Exposure

Deserving encomiums, the students of the Institute were deployed as Officer on Special Duty in the 18th Common Wealth Games held at New Delhi. The PG students also had the privilege of being deployed as On field Physiotherapist in the South Asian Winter Games (Ice Skating & Ice Hockey), South Asian Junior Table Tennis Championship and at various State & National Level Cricket Tournaments.

Placements

The passed out students of the Institute are either placed in best hospitals of India or have established their own clinical set ups. In SBSPGI, the placements start first from home itself. The Institute stands tall to absorb its very own passed out students as faculty members in the department. This unique placement drive differentiates SBSPGI from the rest. A major populace among them have also taken up teaching assignments in the reputed educational Institutes or are extending interdisciplinary physiotherapy services overseas including U.S.A, U.K., Canada, Australia & many other European countries. A strong asset of the institute is its dynamic placement cell which not only keeps the students updated about the upcoming job opportunities but also organizes campus and pool interviews. Regular personality developments workshops, Entrepreneurship Development Programs (EDP) and Workshops by national and international resource persons add to the overall learning curve of the students, helping them attain their goals in life and following their dreams of choice.
SCHOOL OF ALLIED HEALTH SCIENCES

DEPARTMENT OF MEDICAL LAB TECHNOLOGY

ABOUT THE DEPARTMENT

The Medical Lab Technology department was started in the year 1995. The department has progressed remarkably. The department is well-equipped with modern and automated equipments such as Biochemical, Electrolyte and Hematological Analyzers, ELISA Reader, Spectrophotometer & Digital Colorimeters, Electrophoresis Unit, Binocular & Projection Microscopes, Microtome and Automatic Tissue Processor etc. The department takes pride in its dedicated and committed teaching staff. The teachers emphasize on competency-based education of Clinical Lab Medicine, so that the students turn out to be the best professionals & develop expected proficiency and practical-oriented skills, to perform routine and specialized diagnostic tests and procedures with precision and accuracy for quality reporting. The admission will be open for 19th batch of the B.Sc. Medical Lab. Technology course.

Medical Laboratory Technology or Clinical Laboratory Medicine is regarded as one of the several important sources of clinical data essential for diagnosis, prognosis and treatment of a disease. Clinical Laboratory Medicine involves all aspects of medicine ranging from the fields of hematology, immunology, clinical pathology, histopathology & cytology, blood banking technology, cytogenetics, molecular pathology, biochemistry & microbiology, serology etc.

The purpose and function of laboratorians or lab-technicians through laboratory medicine is to assist clinicians/physicians in (1) confirming or rejecting a diagnosis (2) providing guidelines in patient management (3) detecting disease through case finding or screening (4) establishing a prognosis and (5) monitoring follow-up therapy. The operation of a clinical laboratory and effective delivery of services to clinicians, patients and public requires a complex inter-digitation of (1) expertise in medical, scientific and technical areas (2) resources in the form of personnel, laboratory and data processing equipment, supplies and facilities and (3) skills in organization, management and communication. The increasing cost of medical care mandates the responsibility of proper and optimal utilization of clinical laboratory which falls on the Lab-technicians and Physicians, while providing the best service for the patient.
FACULTY BASE

The Department houses highly qualified, specialized and experienced medical & paramedical faculty members supported by para-clinical, clinical and non-clinical staff. The dedicated faculty members have experience in all hospital diagnostic services.

B.Sc. MLT Pathology

Course Contents 1st year: Human Anatomy and Physiology, Biochemistry, Fundamental Microbiology, Instrumentation & Techniques in Microbiology, Basic Pathology, Preventive Medicine & Health Care and combined practical in various subjects.
2nd year: Clinical Biochemistry-I (Instruments & Biostat), Clinical Biochemistry-II, (Enzymology), Medical Microbiology-I (Bacteriology), Medical Microbiology-II (Lab diagnosis and pathogenesis of various bacteria), Pathology and Allied Subjects -I (Hematology and Blood Banking), Pathology and Allied Subjects II (Staining procedures and Histology), Practicals in Biochemistry, Pathology and Allied Microbiology.
3rd year: Clinical Biochemistry I (Instrumentation & Biostat), Clinical Biochemistry II (Enzymology: Principle procedure and clinical significance), Medical Microbiology I (Virology and Miscellaneous Microbes), Medical Microbiology II (Advanced Diagnostic Techniques of Microbiology), Pathology and Allied subjects I (Immunology & Blood Banking), Pathology and Allied Subjects II (Histopathology), Practical for Clinical Biochemistry, Medical Microbiology and Pathology.
The final exams are followed by a compulsory Internship of 6 Months.

Scope With only a couple of branches in Medical Sciences which are as diversified as Medical Lab Technology in their clinical and practical applications; it is truly a job oriented course. The ever-expanding horizon of Laboratory Science creates immense job-opportunities. Due to the scarcity of trained Lab Technicians – the hospitals, pharmaceutical companies, pathology labs, research institutes etc. both in India as well as abroad are in search of these trained personnel on good perks. MLT graduates with academic mind-set and teaching-inclination can pick up teaching jobs in reputed medical & paramedical institutes. Blood Banks and Transfusion Services are other potential areas of intake of trained MLT professionals. Degree-holders who are willing to serve the rural population can work in Primary Health Service Centres and govt. funded dispensaries.
Professionals aspiring for higher studies may opt for Post Graduation in the field of Pathology, Microbiology, or Biochemistry. Research oriented areas in this field include Cell Biology, Molecular biology, DNA

DEPARTMENTAL HIGHLIGHTS

- A centre of academic excellence with 100% results
- State-of-the-art laboratories, well equipped with ELISA readers, Microtome and Automatic Tissue Processors.
- Excellent Clinical Placements: AIIMS, Gangaram, Medanta, Escorts, Dr. Ahuja’s Lab, IMA Blood Bank, Apollo.
- Hands on training at local diagnostic centres of the city.
FACULTY BASE

The Department houses highly qualified, specialized and experienced medical & paramedical faculty members supported by para-clinical, clinical and non-clinical staff. The dedicated faculty members have experience in all hospital diagnostic services.

B.Sc. MLT Pathology

Course Contents

1st year: Human Anatomy and Physiology, Biochemistry, Fundamental Microbiology, Instrumentation & Techniques in Microbiology, Basic Pathology, Preventive Medicine & Health Care and combined practical in various subjects.

2nd year: Clinical Biochemistry-I (Instruments & Biostat), Clinical Biochemistry-II, Enzymology, Medical Microbiology-I (Bacteriology), Medical Microbiology-II (Lab diagnosis and pathogenesis of various bacteria), Pathology and Allied Subjects -I (Hematology and Blood Banking), Pathology and Allied Subjects II (Staining procedures and Histology), Practicals in Biochemistry, Pathology and Allied Microbiology.

3rd year: Clinical Biochemistry I (Instrumentation & Biostat), Clinical Biochemistry II (Enzymology: Principle procedure and clinical significance), Medical Microbiology I (Virology and Miscellaneous Microbes), Medical Microbiology II (Advanced Diagnostic Techniques of Microbiology), Pathology and Allied subjects I (Immunology & Blood Banking), Pathology and Allied Subjects II (Histopathology), Practical for Clinical Biochemistry, Medical Microbiology and Pathology.

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The new field of molecular diagnostic techniques permit identification & diagnosis of various diseases such as genetic, viral, bacterial, cancer therapy & DNA fingerprinting etc.

Research Activities

Since Research is an integral part of the fabric of Medical Laboratory Technology; through sustained efforts in research management, new technologies, procedures and diagnostic tests are developed and implemented to provide the highest level of care in patient diagnosis and management. Medical lab technology, thus, can be viewed as a bridging endeavor linking basic biological and physical sciences with medical principles.

Placement

Keeping in view the high standards of quality education in the field of MLT; many reputed pharmaceutical companies, diagnostic Labs and Clinical Labs have been holding regular in-campus interviews through the especially constituted Placement Cell at SBSPGI, for the placement of these graduate during the final year. As a result, many of the ex-students have been highly placed with bigwigs in the field e.g. Ranbaxy Path. Lab, Dr. Lal's Laboratory and Thyrocare, Apollo, Escorts, AIIMS, Medanta & Gangaram. Many of our students have opened their own diagnostic centres.
ABOUT THE DEPARTMENT

The Department of Medical Microbiology was established in 2001 and over these 12 years the department has made incredible advancement in teaching and training of students in methodology of diagnosis and pathogenesis of diseases. The department is fully equipped with modern equipments and teaching aids for training of the students. The graduation course in Medical Microbiology imparts advanced training in diagnosis, pathogenesis and epidemiology of infectious diseases, immune mediated disorders and immuno-diagnostics of malignant diseases. Whereas majority of the students get selected for M.Sc. Medical Microbiology course within and outside the country, many of them got placements in hospitals, medical institutions and pharmaceutical companies.

The attributable mortality to infectious diseases has lately increased manifolds both in the developing and developed countries. Emergence of newer infectious diseases like HIV, SARS, bird flu etc and re-emergence of the old infectious diseases like tuberculosis, typhoid fever, syphilis and dengue fever with the enhanced virulence and resistance to treatment is threat to the resource limited developing nations. Another major disquiet for the medical microbiologist is the threat of weapons of bio-terrorism, where the diagnosis of the mediated disease has to be established in a very short time and management of the disease in a vast section of the population will be a colossal task. The changing epidemiology, clinical picture of the infectious diseases and the addition of more zoonotic infections is an added quandary for the microbiologist. This incredible creativity of the medical microbiologist emphasizes the contributions to health, diagnosis and management of disease. The ingenious innovations like use of the molecular tools and newer methods to cultivate the pathogens have revolutionized the diagnosis of infectious diseases. The automation in medical microbiology has effectively reduced the diagnostic time and management cost of the patient.

B.Sc. Medical Microbiology

Course contents The graduation course in medical microbiology provides a foundation to build expertise and knowledge in infectious and immune mediated diseases. This knowledge conveys the fundamental concepts of sound diagnostic judgment, search for newer antimicrobial agents, mechanism of drug resistance and research on newer vaccines. The course provides an extensive base for the advanced learning and quest for relevant research. The course in B.Sc. Medical Microbiology comprises of a comprehensive in-depth study of the various aspects of infectious and immune mediated diseases.
First year: Human anatomy & physiology, Basic pathology, Clinical biochemistry, Preventive medicine and health care, Fundamentals of medical microbiology, Instrumentation techniques in medical microbiology.

Second year: Bacterial pathogens & associated diseases, Systemic bacteriology, Misc microbes fungal pathogens & associated diseases, Laboratory diagnosis of microbial diseases, Human parasitology, Applied medical microbiology.


Scope A medical microbiologist is an indispensable member of the team managing the infectious diseases and forms an important part of the health care delivery system. The role of medical microbiologist in the clinical and basic medical research has always remained very crucial. The contribution of medical microbiologist in the pharmaceutical industry remains ever consummate. Medical microbiology is an obligatory part of the food industry and community health services.

After graduation, a medical microbiologist can be an important part of investigative team in hospitals, diagnostic laboratories and clinics. He can be a part of research team in research centers. The enthusiasm to run one’s own diagnostic practice can be another vast horizon. Those who look for an academic or research career may opt for pursuing higher studies like M.Sc. and PhD in medical microbiology and contribute in teaching and research.

DEPARTMENTAL HIGHLIGHTS

- A centre of academic excellence with 100% results
- State-of-the-art laboratories well equipped with ELISA readers, Microtome and Automatic Tissue Processors.
- Excellent Clinical Placements: AIIMS, Gangaram, Medanta, Escorts, Dr. Ahuja’s Lab, IMA Blood Bank, Apollo.
- Hands on training at local diagnostic centres of the city.

FACULTY BASE

The Department has highly qualified and experienced faculty members having good standing in the field of Medical Microbiology. It is also steered by eminent Medical Microbiologists of International repute with postgraduate teaching experience, hospital diagnostic service and research experience in medical microbiology. The exceedingly dedicated faculty members have vast experience in hospital diagnostic services in the fields of bacteriology, virology, mycology, parasitology, clinical immunology and nosocomial infections.
AND NOW PHENOMENAL TECHNICAL EDUCATION
SARDAR BHAGWAN SINGH INSTITUTE OF TECHNOLOGY

COURSES OFFERED:

SCHOOL OF CONSTRUCTION TECHNOLOGY AND DESIGN
· B.Tech Civil Engg.
· B.Tech Electrical Engg.

SCHOOL OF MECHANICS
· B.Tech Mechanical Engg.

SCHOOL OF ELECTRONICS AND COMPUTER SCIENCES
· B.Tech Electronics & Communication Engg.
· B.Tech Computer Science & Engg.

With two decades of excellence in the field of biomedical sciences, Sardar Bhagwan Singh Post graduate Institute of Biomedical Sciences now ventures in the field of technology and management, keeping in view the career opportunities and aspirations of the young generation. SBSPGI has always thrived to be the best in the region in terms of academics, infrastructure, research activities and in campus facilities. With the introduction of its new academic enterprise the Institute has succeeded in yet another level of growth and development. The Institute more promisingly accepts the challenge to progressively excel in the fields of technology and management, besides the milestones achieved in biomedical sciences.

Faculty Base
Experienced and exemplary faculty from across the length and breadth of India. The faculty is constantly working for raising the standards of education by incorporating seminars, multimedia-presentations and tutorials for problem solving. The faculty is also engaged in research and analytical advances in the field.
The ideas and imaginations are turned into reality by engineers. The engineering skills and marvels can be observed in the design and manufacture of almost everything from computers to cars, from houses to supersonic airplanes. The medical science has also advanced and progressed manifold due to various technological developments.

Engineering applies scientific and technical knowledge to solve human problems. Engineers use imagination, judgment, reasoning and experience to apply science, technology, mathematics and practical experience, resulting in design, production and operation of useful objects (machines) including life saving devices.

The work of engineers forms a link between scientific discoveries and their subsequent application to human needs and quality of life.

SCHOOL OF CONSTRUCTION TECHNOLOGY AND DESIGN

B.TECH CIVIL ENGG., B.TECH ELECTRICAL ENGG.

Department of Civil Engineering
B.Tech Civil Engineering
Duration - 4 Years
Number of Seats - 60

The discipline of B.Tech Civil offers systematic study of designing and planning, construction, quality control and maintenance of physical structures like buildings, roads, bridges, dams, canals and airports.

The department is well designed with state-of-art lecture halls and unmatched laboratories with modern and necessary equipment according to the curriculum needs.

Scope
After completing a bachelor of Tech Civil, one has countless career opportunities in the fields of Bioengineering, Geotechnical Engineering, Materials Engineering, Structural Engineering, Transportation Engineering and Water Resources Engineering. Employment prospects for Civil Engineers also include Govt. development authorities, municipal bodies, railways and defense forces.

Department of Electrical Engineering About the department
B.Tech Electrical Engineering
Duration - 4 Years
Number of Seats - 60

Electrical Engineering deals with the study and application of electricity and electromagnetism. It is a very broad area that includes the study and designing of various electrical systems, such as electrical circuits, generators, motors, transformers, magnetic devices and materials, electromagnetic and electromechanical devices.

Scope
Electrical engineers deal with power generation, transmission and distribution. The options after B.Tech Electrical are numerous, ranging from the public and private sector to government sector in areas like power supply and distribution, instrumentation and control, Indian railways, petroleum and armed forces.

One has great avenues in the R&D units of various multinationals like Crompton Greaves, Reliance Power Ltd., Wipro, BHEL, Philips etc.
B.TECH: MECHANICAL ENG.

**Department of Mechanical Engineering**
**B.Tech Mechanical Engineering**

**Duration - 4 Years**
**Number of Seats - 60**

Mechanical engineering deals with the designing, analysis, manufacturing of machinery and machine parts. It includes all aspects of machinery with detailed knowledge of its mechanism and functioning, designing, development production, installation, execution and maintenance.

**Scope**
As a mechanical engineering, one has infinite career options. One can choose a career in Robotics, Mechatronics, Fluid and Thermal Engineering and Industrial engineering.

### SCHOOL OF ELECTRONICS AND COMPUTERS SCIENCES

**B.TECH: ELECTRONICS & COMMUNICATION ENG., COMPUTER SCIENCE & ENGG.**

**Department of Electronic & Communication Engineering**
**B.Tech Electronic & Communication Engineering**

**Duration - 4 Years**
**Number of Seats - 60**

B.Tech – ECE is the amalgamation of two branches i.e. Electronics and Communication. This area involves the transmission of information across channels such as coax cable, optical fibre or free space. It includes designing of equipment such as routers, switches, multiplexers and electronic switching systems, which are used in day to day devices like transistors, Mp3 players, cell phones and television to name a few. The task of an electronic and communication engineer is to direct, control, test and produce these integrated circuits.

The discipline integrates knowledge based on digital electronics and logic design, fundamentals of communication engineering, electronic circuits, signals and systems, power electronics, applied electromagnetic theory and computer architecture.

**Scope**
The career avenues after B.Tech ECE are in the fields of consumer electronics, aviation and avionics, manufacturing, electricity generation and transmission, telecommunication, radio and television, computer applications and hospital diagnostic equipment. Top recruiters include Intel, Philips Electronic, Motorola, Infosys, Wipro, HCL Technologies and Tech Mahindra.

**Department of Computer Science**
**B.Tech Computer Science Engineering**

**Duration - 4 Years**
**Number of Seats - 60**

B.Tech, Computer Science encompasses Electronic Engineering, Software designing and Hardware - Software integration to develop computer systems.

Computer engineering includes development of computerized gadgets such as Cell-phones, Digital Video-Recorders, Alarm systems and Medical Equipment.

**Scope**
After graduation in Computer Science, one can find career options in the fields of programming, Web development, E-Commerce and Software & Hardware.
The Institute encompasses all the basic and applied sciences, so it becomes more realistic in the approach to give a proper orientation and research aptitude in varied areas of Biomedical and Pharmaceutical Sciences. The outcome of these research activities is well recognized in the form of publications/presentations at International and National platforms. The main research is focused on the areas catering to the needs of both the Industry and Research Organizations of the country and abroad for utmost advantage to mankind.

The targeted research areas in various Divisions of the Institute include:

School of Pharmaceutical Sciences and Applied Chemistry
- Development, safety and efficacy of various drug formulations
- Bio-organic chemistry
- Phytochemistry
- Synthesis & Pharmacological Screening of Potent Medicinal Agents
- Development of new drug derivatives
- Natural remedies
- Standardization of Herbal Drugs
- Novel drug delivery systems
- Analytical approaches

School of Medical Health and Allied Sciences
- Exercise therapy
- Clinical Pathology
- Immuno Diagnostics

School of Life Sciences
- Probing microbes for the production of value added products
- Development of bio-fertilization
- Technology and rhizosphere engineering
- Utilization of microbial diversity for industrially important products
- Water analysis
- Fermentation Technology
- Plant Tissue Culture
- Protein biochemistry and Enzymology
- Bioprospecting for industrially important products
- Bioremediation and Biodegradation
- Plant-Microbe Interaction
- Analytical approaches
- Development of bio-fertilization

Research at SBSPGI is a never ending process. The labs are well equipped with all the modern equipments necessary for carrying out research. The Institute is proud to collaborate with organizations to carry out their research and development assignments to cater the global needs. The faculty is engaged with a number of research projects funded by various Government agencies such as DST, Ayush, UCOST with external grant of more than ₹ 2 Crores.

We also provide consultancy services and know-how for the product / process development to Pharma R&D sectors.

PhD Programme
Institute is running PhD programme in Applied Chemistry, Pharm Sciences, Biotechnology, Microbiology, Biochemistry and Physiotherapy. 25 students have been awarded Ph.D degrees and 10 students have been registered for the same from different Universities.
**Funded Research Projects**

- **Generation of somatic hybrids of gold rush (Yarsha gumba) and establishment of highly efficient cell culture based bioreactor system** (2.40 Lakh) funded by DST-Uttarakhand Council of Science & Technology (UCOST) Uttarakhand, Dehradun. Principal investigator: Dr. Santosh K Singh

- **Assessment of the population of Angelica glauca in natural habitat and conservation of these endangered medicinal herbs through micropropagation and elite germplasm conservation** (Project cost Rs. 18.00 lakh, sanctioned grant 1st Year: 3.25 lakh). Principal investigator: Dr. Sanjay Gupta, Co-Investigator: Dr. V. S. Jadon

- **Identification of novel pharmaceuticals from cyanobacteria from high altitude origin and development of DNA based biosensor** (5.40 Lakh) funded by Uttarakhand State Biotechnology Department (USBD), Uttarakhand, Dehradun. Principal investigator: Dr. R. N Singh, Co-Investigator: Dr. Santosh K Singh

- **Development of low cost electrochemical nano-biosensor for detection of enterobacteriaceae in drinking water** (37.59 lakh) WTI, Department of Science & Technology (DST), Govt. of India, New Delhi. Undergoing along with GB Pant University of Agriculture and Technology, Pant Nagar. Co-Investigator: Dr. Sanjay Gupta

- **Assessment of bacterial diversity of the Gangetic river system of Uttarakhand using molecular approaches** (Rs. 7.15 lakh) Funded by Uttarakhand State Council for Science & Technology). Principal Investigator - Dr. Piyush Pandey

- **Searching potential metabolites from actinomycetes active against drug resistant bacterial pathogens** (Rs. 12.79 Lakhs) WTI, Department of Science & Technology (DST), Govt. of India, New Delhi. Principal Investigator - Dr. G. R. S. Bisht, Co - Investigator- Dr. Yogesh K. Negi

- **Environmental restoration using plant - microbe interaction: Rhizo remediation** (Rs 4.95 Lakhs) Funded by Ministry of Environment and Forest, Govt. of India G.B. Pant Institute of Himalayan Environment & Development). Principal Investigator - Dr. Piyush Pandey

- **Evaluation of potential antifungal principle from Alsedaphanae andersonii** (Rs. 5.00 Lacs) funded by DSIR, Ministry of Science and Technology, New Delhi. Principal Investigator: Prof. Versha Parcha, Co-Investigator: Dr. Bijaya Ghosh.

- **Development, Safety and Efficacy of a potential anti-diabetic formulation from Indian medicinal Plants** (Rs. 12.00 Lakhs) funded by National Medicinal Plants Board of India, Deptt. of Ayush, Ministry of Health & Family Welfare, Govt. of India. Principal Investigator: Prof. Versha Parcha

- **Development of a Polyherbal anti-diabetic Formulation from Medicinal Plants of Garhwal Himalayas** (Rs 10.00 Lakhs) funded by Uttarakhand State Council for Science & Technology). Principal Investigator: Prof. Versha Parcha, Co-Investigator: Prof. Veerma Ram.

- **Assessment of genetic analysis of Allium sp. and Fagopyrum sp. by molecular markers** (12.67 lakhs) funded by DST-Uttarakhand Council of Science & Technology, UCOST, Uttarakhand, Dehradun. Principal investigator: Dr. Sanjay Gupta, Co-Investigator: Dr. V. S. Jadon

- **Bioconversion of agro-waste for production of bio-fuels** (3.25 lakh) funded by DST, Uttarakhand. Council of Science & Technology, Uttarakhand, Dehradun. Principal investigator: Dr. Sanjay Gupta

- **In vitro rapid mass multiplication and their germplasm conservation of some medicinal plants** (9.45 Lakh) funded by DST-Uttarakhand Council of Science & Technology (U-COST) Uttarakhand, Dehradun. Principal investigator: Dr. V. S. Jadon, Co-Investigator: Dr. Sanjay Gupta & Dr. Barkha Kamal

- **Assessment of seed components and genetic polymorphism in Phaseolus vulgaris of Uttarakhand** funded by Uttarakhand State Council for Science & Technology (U-COST), Dehradun, Uttarakhand.(7.92 lakh). Principal investigator: Dr. Aradhana, Co-Investigator: Dr. V. S. Jadon

- **Bioprospecting for novel antimicrobials and industrially important enzymes from microbial isolates in Uttarakhand Himalayas** (10.75 Lakh) funded by DST-Uttarakhand Council of Science & Technology (U-COST) Uttarakhand, Dehradun. Principal investigator: Dr. Balvinder Singh, Co-Investigator: Dr. D Ghosh

- **An investigation of antioxidant, hepatoprotective and antimicrobial plant bioactive from Uttarakhand Himalayas** (3.44 Lakh) funded by DST-Uttarakhand Council of Science & Technology (U-COST) Uttarakhand, Dehradun. Principal investigator: Ms Namrata Ghildiyal, Co-Investigator: Dr. Piyush Pandey

- **Development of low cost process for purification of Industrial waste water for production of water useful for agriculture and Industries** (15 lakhs) WTI, Department of Science & Technology (DST) Govt. of India, New Delhi. Principal Investigator: Dr. Sanjay Gupta

- **“Evaluation of Selected Medicinal plants of Uttarakhand as Potent Antioxidant and Inhibitor of 3-Hydroxy-3-Methyl- Glutaryl-Coenzyme A (HMG-CoA) Reductase Enzymatic activity: an In Vitro and In Vivo Study.”** Uttarakhand State Biotechnology Department, Government of Uttarakhand. Principal Investigator: Dr. Amir Khan, Co- Investigator: Dr. R.N. Singh

**New Project Sanctioned**

- **Optimization of growth characteristics and generic control of microalgae for enhanced biofuel production.** Reg. No:SERB/LS-495/2013. Science & Engineering research board (SERB), DST, GOI. (27.6 Lacs) Principal-Investigator: Dr. Garima Dixit, Advisory; Prof. Sanjay Gupta.
LIFE SKILLS

Life Skill Programme: In this era of competition, a technically sound person cannot survive and face the challenges until and unless he/she has got a multi-faceted personality. For grooming the students’ skills and carving better professionals, the Institute has started Life Skill programme, where main emphasis is laid not only on education, but in development of overall personality, which is the key factor to become professionally sound. The salient features of the programme consist of modules on communication skills, resume building, learning skills from campus to corporate. The motivating lectures by experts from corporate sectors are also the part of this programme, so as to make them ready to face the interviews and get well placed with reputed companies.
TRAINING & PLACEMENT CELL

The Placement Cell of the Institute is responsible for annual placement exercise. Its aim is to help the students to find the jobs they are looking for and also provide facilities to companies to conduct their recruiting procedure. The dedicated team of Placement Cell works with the vision to imbibe success vitamins for professionalism. The positive persuasive thought for believing in power of mind, self strength, cooperative alliances with people, acceptance of constructive criticism, positive mental attitude and enthusiasm in deeds and words are the personality energizer for career building for which Training & Placement provides an opportunity to the students. The cell working in close coordination with the faculty, organizes and helps students in getting vocational Industrial training and provides a platform for students seeking recruitment to interact with possible recruiters on the campus.


I am highly indebted to the Teachers and the Placement Cell of SBSPGI to help me to get my dream job. Working with such a renowned Biotech based industry is a great achievement and is only a result of being an SBSite.

Ishita Bhattacharya, M.Sc. Microbiology, Trainee Executive, Wipro (Wista).

It has been a eventful experience to be a part of SBSPGI which has laid the foundation of my future steps with its great efforts and toil, especially the TRAINING & PLACEMENT CELL which takes keen interest in shaping up the students’ careers so that they can prove their mettle during interviews and avail the best opportunities. If it would not have been SBSPGI, I may not what I am today.


Getting your dream job is a great achievement, which has become possible only because of being a SBSite. The Placement Cell of the institute makes its students capable to be presentable at the time of interviews. Overall the Institute has been a boon for me, which has given me the knowledge and confidence- the foundation of my career.

Yagyadeep Sharma, M.Sc. Microbiology Trainee Executive, Wipro (Wista)

I never expected that my first interview is going to give me this immense happiness. I was so elated when I came to know that I have been placed in Wipro, because this is really a very big achievement when you have got selected in India’s 3rd largest IT service company and moreover when it is your life’s first interview. People at the last stage of their academics are worried about getting job after their studies; because no one wants to sit unemployed and no one wants to be any more dependent on their parents. Thus I am very thankful to SBSPGI, the institute that enriched me with theory as well as practical knowledge along with precious experience of our respected faculty and indebted to the Training & Placement Cell for guiding me perfectly for the interviews.
## RECRUITMENTS-2013:
### INDUSTRIAL

| JOINT POOL CAMPUS DRIVE AT SGRR ITS BY WIPRO (WISTA) | Trainee Executive | Ms. Ishita Bhattacharya  
Ms. Surmil Bathla  
Mr. Yagyadeep Sharma  
Ms. Priya Gupta | M.Sc. Microbiology  
M.Sc. Biotechnology |
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<td>PLANET HERBS</td>
<td>Trainee Executive</td>
<td>Ms. Sukanya Buzaburuah</td>
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| MACLOED PHARMACEUTICALS, BADDI | QC Trainee | Mr. Ajay  
Mr. Rishabh Tyagi  
Mr. Deepak Pal  
Mr. Mukesh | M.Sc. Pharm. Chem |
| SYNERGY CONSULTANTS | Microbiologist | Ms. Monika Gupta  
Ms. Shikha Rana  
Ms. Nayyar Anjum  
Ms. Shivani Chauhan | M.Sc. Microbiology |
| ALLEN CAREER INSTITUTE, KOTA (RAJASTHAN) | Academics | Mr. Deepak Prakash  
Mr. Chitresh Tiwari  
Mr. Narendra | B. Pharmacy  
M.Sc Biotechnology |
| JUBILANT LIFE SCIENCES | Quality Control | Mr. Lalit  
Mr. Pawan  
Mr. Maneesh  
Ms. Anam Naseem  
Ms. Neha Naithaini  
Mr. Vinod Dahnu  
Mr. Vikrant | M.Sc. Pharm. Chem.  
M.Pharm(Pharmaceutics) |
| MANKIND PHARMA LIMITED, BADDI | Quality Control | Ms. Shikha Kamboj | M.Sc. Microbiology |
| WINDLAS BIOTECH LIMITED, DEHRADUN | Quality Control | Ms. Gauri Kukreti  
Ms. Preeti Semwal | M. Pharm(Pharmaceutics)  
M.Sc. Pharm. Chem. |
| PROLABS LTD | Quality Control | Mr. Maharaj Pal  
Mr. Ashish Varma | M.Sc. Pharm. Chem. |
| AKUMS PVT. LTD | Quality Control | Mr. Kuldeep  
Mr. Lalit Kunjwal | M.Sc. Pharm. Chem. |
## RECRUITMENTS-2013:
### INDUSTRIAL

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<tr>
<th><strong>JOINT POOL CAMPUS DRIVE AT DBIT BY ALEMBIC PHARMACEUTICAL LTD</strong></th>
<th>Quality Control</th>
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<th>B. Pharmacy</th>
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<tr>
<td>Sales Executive</td>
<td>Mr. Sameer</td>
<td>Mr. Sumit Chaudhary</td>
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| **BISLERI WATERS, JAMMU** | Microbiologist | Ms. Gurmeet Kaur | M.Sc. Microbiology |

| **CRYOBANKS INTERNATIONAL INDIA PVT. LTD.** | Marketing Executives | Mr. Sohail Ali | B. Pharmacy |
| --- | Final Call Awaited | Mr. Devbrat Das | B.Sc. Biotechnology with CBZ |
| | | Ms. Sanjam Chandana | |
| | | Ms. Vidhi Sharma | |
| | | Ms. Diksha Bisht | |
| | | Mr. Prabhav Gautam | |
| | | Mr. Ritesh Ranjan | |
| | | Ms. Sunniya Gupta | |
| | | Ms. Sonali Gaur | |
| | | Ms. Meenakshi Arya | |
| | | Ms. Pallavi Bhatt | |
| | | Ms. Sonakshi Ranjan | |
| | | Ms. Ranjana Negi | |
| | | Ms. Mrinalini Juyal | |

| **COPMED PHARMACEUTICALS (A UNIT OF MANKIND)** | Quality Control | Mr. Nitesh | M.Sc. Pharm. Chem. |
| --- | Final Call Awaited | Mr. Vijaypal | M.Sc. Microbiology |
| | | Mr. Vinod Singh Danu - Mr. Vikash Kumar | |
| | | Mr. Udit Chauhan | |

| **AURO CHEM PVT. LTD. MUMBAI (FOR SOLAN PLANT)** | Quality Control | Mr. Jitendra Singh | B. Pharmacy |
| --- | --- | Mr. Mukesh |

| **PREMIER BIOSOFT (INDIA)** | Territory Manager | Mr. Sandeep Rana | B. Pharmacy |

| **MEDLEYS PHARMACEUTICAL LTD., MUMBAI** | Quality Control | Mr. Sandeep Rana | B. Pharmacy |

| **WOCKHARDT PHARMACEUTICAL LTD** | Marketing Executives | Ms. Manisha Pokhriyal | B. Pharmacy |
| --- | Coding Executives | Ms. Poonam | B.Sc. Biotechnology with CBZ |
| | | Ms. Sanjam Chandana | |
RECRUITMENTS-2013:
INDUSTRIAL

<table>
<thead>
<tr>
<th>Company</th>
<th>Position</th>
<th>Name</th>
<th>Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLOVER ORGANIC, DEHRADUN</td>
<td>Microbiologist</td>
<td>Ms. Rubi Kansal</td>
<td>M.Sc. Microbiology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ms. Kritika Gaur</td>
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<td></td>
<td>Mr. Udit Chauhan</td>
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<tr>
<td>AKUMS PHARMACEUTICAL PVT. LTD.</td>
<td>Quality Control Officer</td>
<td>Mr. Nitesh</td>
<td>M.Sc. Pharm. Chem.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mr. Vijay Pal Pundir</td>
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<tr>
<td>NATURAL HERBS, DEHRADUN</td>
<td>QC Trainee</td>
<td>Ms. Tripti</td>
<td>M.Sc Biotechnology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ms. Sarita</td>
<td></td>
</tr>
<tr>
<td>PARLEY BISCUITS, INDORE</td>
<td>Microbiologist</td>
<td>Mr. Akshay Raj</td>
<td>M.Sc Microbiology</td>
</tr>
<tr>
<td>DIOS LIFE SCIENCES PVT. LTD., NEW DELHI</td>
<td>Business Executive</td>
<td>Mr. Suhail Ali</td>
<td>B. Pharmacy</td>
</tr>
<tr>
<td>VICTORIA HERBAL BIOMEDI SCIENCES, SIDCUL, PANTNAGAR,</td>
<td>Trainee Executive</td>
<td>Ms. Manisha Semwal</td>
<td>M. Sc. Biotechnology</td>
</tr>
<tr>
<td>AVANTOR PERFORMANCE MATERIALS PVT. LTD., SELAQUI, DEHRADUN</td>
<td>Trainee Executive</td>
<td>Mr. Ankit Dwivedi</td>
<td>M. Sc. Biotechnology</td>
</tr>
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<td></td>
<td></td>
<td>Ms. Deepti Nautiyal</td>
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<td>Ms. Swati Negi</td>
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Being a SBSite is a matter to feel proud. The Institute has given me the knowledge, strength and confidence to build my career. I am really thankful to the Placement Cell for giving me such a great opportunity of my life.

When I joined SBSPGI as B. Pharm student, some fear was on my mind that whether I will get the job or not, because one most important thing for getting the job is CONFIDENCE which I was lacking. But the placement cell of the Institute converted me to a personality which is now full of confidence. I am really thankful to the Faculty and the Institute for everything.

Udit Chauhan, M.Sc. Microbiology, Microbiologist with Clover Organic Pvt. Ltd.
Right from my introduction to Chemistry and Biology at secondary level, I knew that I would like to study Science. Sardar Bhagwan Singh Post Graduate Institute of Biomedical Sciences and Research (SBSPGI) was the best choice to make, with a large array of disciplines to choose a specialty from, as well as the standard of teaching here, making it truly an eye opening experience.
RECRUITMENTS-2013:
ACADEMICS

<table>
<thead>
<tr>
<th>Institution</th>
<th>Position</th>
<th>Name</th>
<th>Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRD Institute of Technology, Dehradun</td>
<td>Assistant Professor</td>
<td>Mr. Nitesh Kumar</td>
<td>B. Pharmacy</td>
</tr>
<tr>
<td>SBSPGI Dehradun</td>
<td>Assistant Lecturer</td>
<td>Ms. Chaitali Singhal</td>
<td>M.Sc. Microbiology</td>
</tr>
<tr>
<td>SAI Institute, Dehradun</td>
<td>Assistant Professor</td>
<td>Ms. Ischa Chandola, Ms. Sukanya B Baruah</td>
<td>M.Sc. Pharm. Chem. M.Sc. Biotechnology</td>
</tr>
<tr>
<td>IMR, Ghaziabad, UP</td>
<td>Assistant Professor</td>
<td>Ms. Deepika Sharma</td>
<td>M. Physiotherapy</td>
</tr>
</tbody>
</table>

Mayuri Pachori, M.Sc. Biotechnology, Biosoft Solutions, Indore
“The Institute gave me confidence, knowledge, position, support and affection. I thank Training & Placement Cell for helping me to achieve my dream job. From the bottom of my heart, I extend my gratitude to the Institute for making me a part of such a wonderful SBS family.”

Chaitali Singhal, M.Sc. Microbiology, Assistant Lecturer, SBSPG Institute of Biomedical Sciences & Research, Dehradun. chitalisinghal@gmail.com
“I feel immensely proud to be a part of SBSPGI as a student and now as a Faculty. I am highly thankful to the Training & Placement Cell for recognizing my potential.”

Surmil Bathla, M.Sc. Microbiology, Trainee Executive, Wipro (Wista) surbathla30@gmail.com
“It has been a pleasure being a part of SBSPGI. The Institute has provided us with the opportunity to explore ourselves. The Training & Placement Cell is actively providing us with the information about various fields where we can represent ourselves to our maximum potential without hesitation and enhancing our expressive skills.”
The Alumni Association is a continuous and progressive link of an Institution between its past glory and the present. Thousands of proud alumni from SBSPGI play a central role in almost every sphere of life in India and abroad. They all carry with them a very special and unique experience.

The Institute’s Alumni Association was established with the aim of strengthening the ties between SBSPGI and its graduates. The association office bearers maintain the track record of SBS Alumni. The Association organizes activities such as class reunions, departmental conferences, social events and lectures by the renowned experts.

The Alumni office facilitates interaction between Alumni and the Institute, and strengthens Alumni network within the country & abroad. Further an Annual Alumni Meet is organized in the Campus. The alumni meetings are held in various zones of India, where they share their nostalgic feelings and rich experience of life with the present and past students. The Association has also taken the initiation of presenting the SBS Alumni- Award of Excellence, Distinguished Alumnus Awards and The Award of Appreciation. The nominations are received for the arenas including Academic Excellence, Managerial Excellence, Entrepreneurial Excellence, Excellence in Other Walks of Life, Alumni Activities. The Association conferred Mr Sunil Chaudhary (B. Pharm 1995-2000), Drug Control Officer, Chandigarh, India; Mr Himanshu Tyagi (M.Sc. Pharm Chem 1998-2000), MD Vinca Life Sciences, Panchula, Haryana; Mr Yogender Tomar (M.Sc. Pharm Chem 1998-2000), Head, Quality Control with Alembic Ltd, Baddi (HP) and Dr. Ravinder Sharma (BPT 1998-2002, MPT 2003-2005), Assistant Professor, TDTR DAV Institute of Physiotherapy and Rehabilitation, Yamunanagar, with an Award of Appreciation of the SBS Old Students Association, in recognition of their outstanding contributions to the society and helping the students for getting placed in the reputed pharma sectors and in field of physiotherapy respectively on the occasion of Dashak Reunion of SBS Old Students Association.
SCHOLARSHIPS & AWARDS

The Institute sponsors scholarships for the meritorious and deserving students in the fields of Academics, Extracurricular activities, Sports and to the wards of Defence Personnel.

Merit & Merit cum Means:
Scholarship in tuition fee is awarded to meritorious students as per %age in qualifying exams i.e, class 12th, graduation, diploma etc. Scholarships are also offered to students of Sikh Minority, Uttarakhand residents, and on means basis (parents income lesser than 2.5 Lpa). Scholarship details are available in the Institute fee structure in the admission brochure.

Merit Awards: Meritorious students of the Institute excelling & securing 1st, 2nd & 3rd positions in university examinations are awarded merit certificates and cash prizes of ₹5,000, ₹3,000 & ₹2,000 respectively.

Awards of Appreciation: Students excelling in co-curricular activities are awarded with awards of appreciation and awards of excellence along with a cash prize of ₹2,000 & ₹5,000 respectively. Sportsmen are equally honoured. The Best Athletes & Runners-Up are awarded with cash awards of ₹10,000 and ₹5,000 in both male and female categories every year during Annual Athletic Meet.
WE WORK FOR A CAUSE

We at SBSPGI encourage the teachers and students to imbibe the principle of community service and be generous and large hearted - bound by beliefs beyond themselves. The Institute firmly believes that the responsibility of an educational organization is to spread knowledge, hence the organization helps students of Balawala Inter college to perform their curriculum based practicals. Education is a basic necessity. It prepares, widens and allows exposure to the entire world through the mind. We understand that a sound education implies better quality of thought, which results in superlative quality of life. Education is a portal for betterment. Understanding education in Uttarakhand without diving deeper into the sector of Rural Education would leave our intention incomplete. The Institute is involved in teaching the students of rural areas of Balawala, and helps in transforming the dreams of underprivileged children into reality. We guide, motivate and encourage the rural children to perform better than their circumstances.

Blood is the river of life that flows in our body. World statistics show that today, blood is the most sort-after body part in the world. Demand and supply are slowly drifting apart. India’s daily estimated requirement of blood is roughly 40 million units of 250 cc blood packages. Of which only 500,000 units are available. We understand that human beings are the only source of blood and we encourage the citizens to come forward for the noble cause of saving life of people. Keeping the tradition alive the institute organizes various blood donation camps to benefit the poor. The institute also organizes various health camps throughout the year and supports campaigns like Anti-Cancer Campaign and Anti Anaemia Campaign for School Children of rural areas. Moreover the organization runs out patient departments in various locations all over the city – college OPD at SBSPGI Campus Balawala, Prayas health care centre, Gokul, Bala Pritam dispensary, Patelnagar, Sports College OPD at Maharana Pratap Sports College, Cheshire home, OPD at Indian Military Academy and caters to the treatment needs of locals of Dehradun.
According to various news agencies, India on 13th Jan 2014 declared itself a polio-free country for the third consecutive year without a single new case of the disease and braced itself for the March-end to eradicate it completely. Polio is a highly infectious disease caused by a virus poliovirus. It invades the nervous system and can cause total paralysis in a matter of hours. It can strike at any age, but affects mainly children under three. Polio is mainly passed through person-to-person (i.e., fecal-oral) contact, and infects persons who do not have immunity against the disease. There is no cure for polio, but the disease can be prevented by immunization with polio vaccine. Its our duty to contribute towards the nation and keeping this in mind our organisation is actively participating in **Polio Eradication Programme.** It is a matter of pride for us and OUR NATION that not a single case of polio has been detected in the three years.

A single tree can support hundreds of lives all together. We at the Institute understand the importance of trees and forests in our environment & in our own little way contribute to a-forestation by planting as many trees as possible and our motto remains “GO GREEN” to work for this cause. Our organisation is completely dedicated towards hard work and to impart excellent knowledge, we believe that everyone should have the opportunity not just to survive, but to excel with their God-given talents and abilities.
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life at SBS
... a celebration
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... a celebration
extra curricular activities
2013-14
a platform to perform
life at SBS... a celebration
A platform to perform
2013-14
Extra-curricular activities form an integral part of education at SBSPGI. Great emphasis is laid on organization of these activities throughout the year. Cultural activities, be it, to welcome the freshers or bid good-bye to seniors or participating in union week at the university level. It is always a learning experience for the students in experimenting their ideas in planning creative events as well as unique ways to promote them.

Intercollegiate & Inter-departmental debates, quiz, science exhibitions & other competitions are organized in the Institute campus every year. Invited performances by artists of National and International repute enlighten the students with the cultural diversity of our country.

The students have been placed in four different houses namely, Ajit, Fateh, Jujhar and Zorawar for all competitions. Various committees have been formed for organizing extra-curricular events. Participation of every student in any of these activities is encouraged.

Fun activities are organized like theme-based face painting competitions, collage making, rangoli making, cut flower decorations and putting up an exasperating flower show. The Institute boasts of having organized several National and International conferences.

The students regularly bring laurels for the Institute by winning prizes in Inter-collegiate cultural competitions organized by H. N. B. Garhwal University and Uttarakhand Technical University.
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SBS Utsav
The Annual day of the Institute is celebrated on the occasion of The Birthday of the Founder Director and Chairman Late S. Gurcharan Singh Ji. It is celebrated on 17th November every year. The festivities are spread over 3-4 days and are known as SBS Utsav. The celebrations comprise various cultural, sports, creative arts and literary events. The meritorious students are honoured with medals and cash prizes. Personalities of National/International repute are invited to witness the event.

National Debate Competition
National Debate Competition is organized every year in the memory of Late Sardar Gurcharan Singh, Founder Director of Sardar Bhagwan Singh Post Graduate Institute under the aegis of Uttarakhand Technical University. The topics on current affairs are discussed. The competition witnesses overwhelming participation by various renowned Schools, Institutes and Universities from all over India. Renowned personalities with authority on the subject grace the occasion and enlighten the audience with words of wisdom.

Annual Athletic Meet
Annual Athletic Meet is held every year during the month of February. Both boys and girls participate separately in various track and field events. Trophies and cash awards are given to all winners. The Best Athlete and Runners-up Athlete in both boys and girls category receive a handsome cash award along with certificate and trophy. The trophy for Overall Best House is also awarded. The meet also witnesses cultural programme, march past and army band display.
Clubs/Societies:
The Institute supports various clubs & societies with the primary aim to involve students in extra-curricular activities in an attempt to provide overall personality development by assimilation of culture, literature, art, music, dance, drama, sports activities, photography and community services. These societies offer a variety of extra-curricular activities, meeting a variety of student interests. Each Club/Society is constituted by a Convener, a Co Convener, a Treasurer, a Student Secretary and student members.

BLOOD DONORS CLUB:
The aim of Blood Donation Club is to create wider awareness, safety and appropriate use of blood and blood products and also to raise awareness about the need for safe blood transfusion.
The Blood Donors Club of SBSPGI has been organizing Blood Donation Camps every year with objective of helping financially weak patients in complex/complicated expensive surgical interventions & working for the noble cause of blood donation.

CREATIVE ARTS SOCIETY
Creative arts helps in inculcating a love of learning, of acquiring knowledge and assisting one to perceive and think in innovative ways about art spread around oneself.
The society holds competitions like card making, rangoli once/twice in a year and other related events like collage, mehandi, salad decoration, flower decoration and face painting. The society also organizes SAPTRANG once in a year during SBS Utsav/ Annual Day Celebrations or clubbed with other event like debate competition etc. The society motivates students and encourages their participation in other National/State/ Inter-Collegiate level creative arts competitions. Students also participate yearly in creative competitions organized in Raj Bhavan and HNB Garhwal University.
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CULTURAL AND MUSIC CLUB

The cultural & music society of the Institute has mandate to inculcate the awareness for importance of cultural activities and its promotion for their overall development. The students organize as well as participate in cultural events at University/national levels. The prime activity of the society is seen during the SBS Utsav where a panorama of Indian classical and folk dances and music form the highlights of the occasion. The club also invites artists of National & International acclaim in association with SPIC MACAY to introduce indian cultural heritage to the students. It also conducts inter-house cultural competitions.

DEBATING SOCIETY

Debate – a synonym with battle of words is an interactive and representational argument. The Debating Society of the Institute was formed with the aim to inculcate public speaking, persuasive communication and enhance analytical skills, thus, enabling one to analyze a problem by thinking critically. It cultivates team spirit, better cooperation and helps in developing life essential skills in the students. It also helps students to develop research as well as the listening and documentation skills. This is achieved through various activities organized by the society which includes the prestigious Sardar Gurcharan Singh Memorial National Debate Competition under the aegis of Uttarakhand Technical University, Dehradun. Therefore students, joining this society are provided the platform where they can resolve concrete problems and dilemmas through words rather than actions. For those eager in sharpening their debating power as well as improving informative, persuasive and extemporaneous speaking can come forward and join hands with this esteemed society and avail the opportunity of participating in various prestigious competitions and prove their mettle.
DRAMATICS SOCIETY
The club is committed to the development of talent and gives opportunity for theatrical expression. It is also devoted to create an awakening and nurturing an appreciation for good theatre in all its members. The club on various occasions presents plays of artistic merit for the students. Students participate in inter-house and inter-collegiate dramatics competition regularly. Besides this, workshops by theatre persons are also conducted. SBS Utsav witnesses one of the finest works of the club.

HEALTH AND SANITATION CLUB
The aim of establishing a Health & Sanitation club is to treat environmental sanitation and public health as a major field of education and disseminate knowledge and skills to all walks of life at national, regional and global levels. Therefore, every year the club organizes health camps, anaemia control programmes, anti tobacco & anti-cancer campaigns within the Institute’s premises as well as in schools and villages surrounding the Institute.

NATURE CLUB
Nature is supposed to be the best teacher for an enlightened disciple. The main objective of Nature Club is to link the students with the beauty and benefits of nature. The club is devoted to create awareness and knowledge of different varieties of ornamental flowers, along with other useful flora. The club under the dynamic leadership of the Institute’s Chairman planted lot of trees in and around Balawala and also in the remote areas of Uttarakhand. Many fruit trees were also donated to colleges of Balawala. Flower shows, better known as Hemant Sringar and Basant Bahar are two major shows organized by the students of this society. The club regularly bags prizes at spring festival held at Raj Bhavan, Dehradun. The lawn of The Institute bagged second prize amongst large number of institutes / establishments in 2013.
PHILATELY CLUB
PHILATELY - A broad term for the people fond of collecting different items such as Coins, Stamps, FDC's (First Day Covers). Philately is not merely a hobby but also a playful and creative way of learning new things about one's own history and about the history of the world. Be it coins from different eras or stamps of different countries, Philately is an asset to one who possesses it and also to the community. The Philately club of SBSPGI, gives a platform to all those 'COLLECTORS' who in their informative collections have put together history, geography and an enormous collection of facts. The Philately club is committed to develop talent and give opportunities for Philatelic Expression in SBSPGI. It nurturs in the members an appreciation for good FDCs, stamps and coin collection. KINGPEX-PHILATELY EXHIBITION which is held every year in the month of February in the Institute displays the innovative collections of the student members.

PHOTOGRAPHIC CLUB
Photography is an art to conserve moments, and present pictures with different perspectives. The Photographic club of Institute encourages the shutter bugs in the Institute to explore their creative perceptions with the camera. The students learn various photographic techniques and other dimensions of this art by participating in photographic events. The club has many events in a year like, Photograph of the month, Photographic discussion about technique & other aspects related to photography, Photography workshops by eminent professionals, Inter-house photography competitions, Photography exhibition twice a year, coverage of all the institutional events, Photographic excursion/tours related to nature/wildlife/birds. The Institute also has a photography gallery which displays the commendable photographs taken by students.

PUBLICATION AND CREATIVE WRITING SOCIETY
The Publication and Creative Writing Society was established for the general involvement of students interested in the promotion and dissemination of knowledge pertaining to the art of writing. The Society is for anyone interested in reading and producing their own writing in a relaxed and friendly environment where students can share their creative work and receive helpful feedback and support, whether they write prose, poetry, drama or non-fiction. Those who enjoy writing, whether they do it purely for pleasure, or want to make a career out of it one day, are welcome to practice their skills. This committee is active throughout the year. It is regularly involved in notifying all events that take place in the Institute. The committee publishes a monthly newsletter called the ‘SBS Times’ which showcases the activities and achievements each month. This newsletter also gives freedom of thought to our budding writers. The committee also publishes an annual magazine ‘Endeavour’ which is the reflection of yearly activity in the Institute and also includes sections like scientific articles, articles of general interest, poetry, science fiction and stories.

ROTARACT CLUB
The purpose of the Rotaract is to provide an opportunity for young men and women to enhance the knowledge and skills that will assist them in personal development, to address the physical and social needs of their communities, and to promote better relations between all people worldwide through a framework of friendship and service. Rotaract club of SBSPGI was founded in March 2011, which had 55 members; 3 years later Rotaract club of the SBSPGI has grown into a strong club having 150 active members. The Goals of Rotaract Club are:

- To develop professional and leadership skills.
- To develop knowledge and understanding of the needs, problems, and opportunities in the community and worldwide.
- To provide opportunities for personal and group activities to serve the community and promote international understanding and goodwill towards all people.
- To provide opportunities for young people to address the needs and concerns of the community and our world.
- In the year 2013-2014 Rotaract club has organized Pulse polio vaccination, Blood donation camp, Tree plantation programme, Clean drinking water campaign, Disability Rehabilitation programme.
The NCC came into existence on 16th July 1948 through the NCC Act XXXI of 1948 under the Ministry of defense. NCC develops character, comradeship, ideals of service and qualities of leadership in the youth of the country. NCC training is to expose the youth to a regimental way of life and to inculcate in them the value of discipline, dutifulness, personality, orderliness, and smartness. NCC curriculum includes drill, shooting, physical fitness, map reading, first aid, adventure sports, camp training and community development.

**National Cadet Corps**

**Unity and Discipline**

**Girls Wing**

The NCC platoon for girls 7/11 Battalion was started in the year 1999 under the command of Capt (Mrs) Nalini Meherishi. Guided by the mission of local interest and global consideration, NCC cadets of SBSPGI have taken a pioneering step in this direction by adopting "Vijay Lok Colony", Balawala, with the main objective of organizing health awareness camps and need based training programs. The cadets actively participate in free eye camps, AIDS & health awareness camps, need based training programs, pulse polio campaigns, blood donation camps, female anti-foeticide drive, anti-drug rallies etc. The stupendous achievements of the girl cadets are:

1. Cadet Bhavyashri was selected for the Republic Day parade 2013. She was also selected for youth exchange program 2013.
2. Cadet Ruchita Agarwal, SUO Swarnita Kandpal, Cadet Khusbhu & Saraswati received Sahara scholarships of Rs 30000/- each for 2012.

Over the years more than 250 cadets have completed the NCC ‘C’ certificate. Senior Under Officer Astha Tiwari was appointed as Flight Lt. in Indian Air force.

**Boys NCC**

Senior division of boys platoon was raised in July 2005 which is attached to 29 UK SD Bn NCC, Dehradun, with the help of military personnel, intense and systematic training is imparted to cadets so that they can obtain ‘B’ or ‘C’ certificate after 2 or 3 years of NCC training. There are ample opportunities for attending various types of camps at the regional and national level. NCC Cadets also participate in social service activities like blood donation, tree plantation, medical camps & polio vaccination. Dr. R Raghuveer, is commanding the Army Wing Platoon at present. Seventeen cadets were enrolled for the session of 2013-2014.

- 23 cadets participated in Army Attachment Camp in Oct 2013 where they were awarded best platoon and second position in Cultural competition.
- 15 cadets participated in Army Attachment Camp in Jan 2014 where cadet Rupam Roy was selected for Republic Day Parade.
- Four cadets were selected for All India Trek for Valley of flower & Hemkund Sahib from Sep. 1 to Sep 17, 2010. Cadet Rahil Rawat (UASD/06/155230) has been selected for Short Service Commission in the Indian Army in ‘NCC Special Entry Scheme’, Cadet Rahil Rawat joined NCC in our Institute in the year of 2006 and completed ‘C’ certificate successfully. Mr. Rahil Rawat also completed B.Sc. in Medical Microbiology.
Distance
Roorkee to Institute (Via Hardwar) - 78 Kms
Roorkee to Institute (Via Chutmalpur) - 80 Kms
Saharanpur to Institute - 80 Kms
Haridwar to Institute - 52 Kms
Paonta Sahib to Institute - 65 Kms

Other Distance
D. Dun (Clock Tower) to Institute - 11 Kms
Airport to Institute - 17 Kms
ISBT to Institute - 15 Kms

Transportation Advice:
Local Transport is available from ISBT, Railway Station & other major stations of the town to the Institute. Institute will display route detours on vintage places to guide the parents to the Institute. Parents are advised to categorically hire auto/taxi/other mode of transport for Sardar Bhagwan Singh PG Institute of Biomedical Sciences & Research, Balawala on Haridwar Road to avoid inconvenience by persons posing as agents.
SARDAR BHAGWAN SINGH
POST GRADUATE INSTITUTE
OF BIOMEDICAL SCIENCES
AND RESEARCH.

SARDAR BHAGWAN SINGH
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