

# THIS IS, WHERE THE SEARCH ENDS!



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We focus on Student satisfaction and accessibility.  
All queries, feedbacks, ideas and opinions are welcome.

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## SCHOOL OF APPLIED SCIENCES

Science knows no country, because knowledge belongs to humanity, and is the torch which illuminates the world. Science is the highest personification of the nation because that nation will remain the first which carries the furthest the works of thought and intelligence.

**Louis Pasteur**



# ABOUT SGVU

**W**e are a research driven university accredited with 'A' grade by NAAC (National Assessment & Accreditation Council) UGC. With a score of 3.10 on a scale of 4, we are the only NAAC 'A' private University in Rajasthan. Our Applied Sciences programs have been designed & fine-tuned to meet the needs of the ever dynamic ever growing market-industry domain. With special emphasis on innovation, entrepreneurship, co-learning, multi-disciplinary research, & co-creation we are committed to the cause of a brighter future.

200<sup>+</sup>



FACULTIES

4000<sup>+</sup>



STUDENTS

10000<sup>+</sup>



ALUMNI

20<sup>+</sup>



COUNTRIES

# ABOUT SCHOOL OF APPLIED SCIENCES

**A**ppled Science is a bridge that connects basic science like Physics, Biology, Chemistry with Mathematics and Advanced Sciences like Biotechnology, Microbiology, Nanotechnology, Biophysics, Bioinformatics, Biochemistry, Genetic Engineering etc. Faculty and students in Applied Sciences employ fundamental principles of sciences to create innovative new technologies. These novel solutions are then handed off to different disciplines to be refined, enhanced and used to address important societal problems. Scientific knowledge is used to create new revolutionary technologies and enable us to expand the field of Sciences. One of the educational objectives of our institute is to instruct science-based education that has a practical implementation which leads to the development of professional skills. The School of Applied Sciences has always striven to accomplish it by building a strong base of science for graduates and postgraduates. Various courses have been designed to develop analytic abilities in students. The School has made steady progress in teaching and research since its establishment.

**“**It is not the strongest of the species that survives, nor the most intelligent that survives. It is the one that is the most adaptable to change, that lives within the means available and works co-operatively against common threats.

**Charles Darwin**

# RESEARCH PROJECTS & GRANTS WORTH Rs. 1 Crore (DST Sponsored)

## PROJECT DETAILS

S. No.	Principal Investigator	Title of the Project
1.	Dr. Gaurav Sharma	SGVU Biotech Business Incubation Centre
2.	Dr. Gaurav Sharma	Impact of Engineered Nano-particles on micro biome of Agroecosystem.
3.	Dr. Hariom Nagar	Synthesis of optically pure nanoparticles and their formulation in chiral columns prior to chiral separation of active pharmaceutical ingredients
4.	Dr. Gaurav Sharma	Anti-Biofilm and antibacterial activity of green synthesized nanoparticles against different microorganisms
5.	Dr. Gaurav Sharma	Microwave irradiated green synthesis of Nanoparticles for catalytic and antibacterial activity
6.	Dr. Sarmad Moin	Design of ovicidal and larvicidal formulation from <i>Canthiu rheedi</i> DC
7.	Dr. Mohd. Irfan Ali	Antidiabetic activity of naturally occurring compounds present in <i>Plumeria alba</i>







# USP OF SCHOOL OF APPLIED SCIENCES



School of Applied Sciences is enthusiastically committed and striving for development of the students. Delivering academic and practical knowledge is our top priority. Hence, our working style is pioneering, appreciative and open minded in all aspects. This what we stand for as a formidable. School of Applied Sciences.

Our aspiration is to enhance objectives intended for perfection and excellence for all pupils to be happy and to be challenged in a supportive and safe environment by:

- Nurtures skilled influencing environment in which students analyze and adapt quickly to real world problems;
- Expedite intricate rational reasoning by providing project-based learning;
- Condensed, astute and focused knowledge that inspires deep competence on strategic disciplines;
- Anchors proficient, multidisciplinary research centers of impact.

Establishing a well-rounded professional environment that demonstrates resilience, determination, and strength of character. Equipping students with the skills are required to access increased opportunities, therefore, enhancing their employability, insisting on the demand for excellence and high expectations.



# OUR FACULTY

Our faculty members represent excellence in Sciences having corporate and academic experience to guide and mentor students for the future dimensions of the corporate world.



**Prof. (Dr.) Gaurav Sharma**  
Principal,  
School of Applied Sciences

He is Professor & Principal, School of Applied Sciences, Suresh Gyan Vihar University. Has more than 15 years of Research and Teaching experience in Microbiology and Biotechnology. Has developed significant expertise in designing mono/bimetallic nanoparticles. His major research efforts are focused on Bio-Nanotechnology, Microbiology, Bioinformatics and Proteomics.



**Dr. Sarmad Moin**  
Assistant Professor

He is a Biotechnologist by research, having more than five-year teaching combined with the research experience in Biotechnology. His research interests are in the area of molecular biology and plant proteomics.



**Dr. Dinesh Chandra Sharma**  
Professor

He is an alumnus of the University of Rajasthan. Has expertise in Thin film, Condense Matter Physics & Material Sciences. Has published 3 books & 18 research papers. Life time member of the Indian Physics Association, Materials Research Society of India, Indian Institute of Science, and Indian Association of Physics Teacher.



**Dr. Mohammad Irfan Ali**  
Assistant Professor

He is an expert of Biochemistry, teaches classes on Cell biology, Advanced Cell Biology, Immunology, and Virology. His research explores the isolation and characterization of bioactive compounds from medicinal plants and manufacturing of their nanoparticles.



**Dr. Hariom Nagar**  
Assistant Professor

An alumnus of IIT Roorkee and Principal Investigator DST project. He has expertise in International chromatography specialist, and Organic chemistry.



**Dr. Manjinder Kour**  
Assistant Professor

Dr. Manjinder Kour is a synthetic as well as computation chemist. She has worked on a wide variety of topics in organic chemistry. She has got special training from Central Drugs Research Institute of India, Lucknow in the synthesis and for NMR from Malviya National Institute of Technology, Jaipur. She is a recipient of the "Researcher of the Year Award". She has published more than 10 research papers in renowned international journals.



**Dr. Sunita Ojha**  
Assistant Professor

She is a doctorate from IIT Guwahati in Biotechnology with experience in teaching graduate and undergraduate courses. Her research interests include nanoparticle synthesis, mammalian cell culture, plant genetic engineering & plant tissue culture.



**Ms. Nalini Tomer**  
Assistant Professor

She is Gold medalist in PG. Her research interest focused on compound isolation and characterization of a valued medicinal plants.



**Mr. Imran Husain**  
Assistant Professor

He is trained in Gene Cloning. Industrial experience in perfumes and essential oil manufacturing. Expert of Industrial manufacturing. Research interest in nutraceuticals. Working for the exploration in field of functional foods.



**Ms. Anupriya Rana**  
JRF

She is an alumnus of the University of Delhi, posted as JRF. Expertise in Botanical subjects and currently working on a DST project. She has been an achiever of many state and National level competition.



**Ms. Himani Sharma**  
Assistant Professor

An alumnus of Banasthali University, M.Sc. (Pure Mathematics), academic project work in Algebraic topology (A study of Fundamental Group), Area of interest in mathematics are Real Analysis, Differential Equations, Numerical Analysis, Complex Analysis, always trying to create innovative ideas to teach Mathematics.



**Mr. Sanjay Grover**  
JRF

Currently working as JRF in DST Sponsored project. Expertise in subjects of Chemistry. GATE Qualified.

# PROGRAMS



## B.Sc. (PCM)

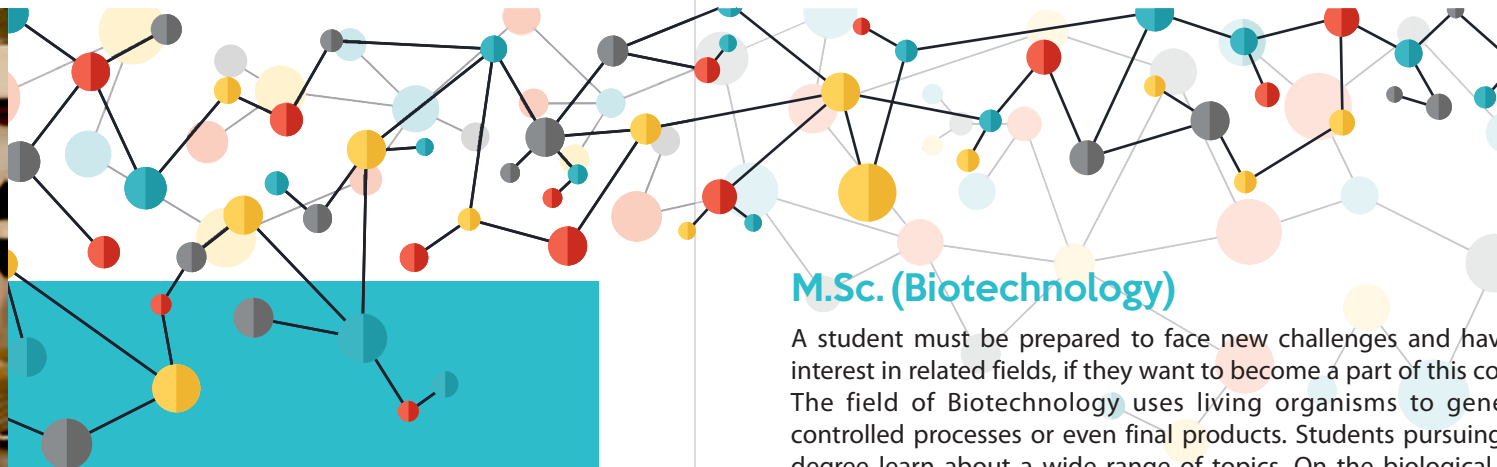
Pursuing a B.Sc. (PCM) program is most beneficial for students who have a strong interest and background in Science and Mathematics. The course is also beneficial for students who wish to pursue a inter-disciplinary science careers in the future. It emphasizes on making the students understand the structural and functional basis of the universe. This course forms the basis of science and comprises of subjects like Physics, Chemistry and Mathematics.

## B.Sc. (CBZ)

B.Sc. (CBZ) program of Suresh Gyan Vihar University, Jaipur is designed keeping in view the latest trends in the field of Chemistry, Botany & Zoology. The students are given an overview of the various subjects of all the three disciplines during the tenure of their program. The various papers that are put to study during the program include the study of plants, animals and physical, organic and inorganic Chemistry in details. Therefore after completion of the Biology program, the students are well versed with the entire area of all the three disciplines and their application in the current scenario.

## B.Sc. Biotechnology

If you want to pursue a science-based career or a graduate degree in a science- or health-related field, the B.Sc. in Biotechnology degree at Suresh Gyan Vihar University can help you take that first step. By taking admission in B.Sc. Biotech you will: Gain a foundation in biology and chemistry, as well as specialized knowledge in biotechnology, genomics, and proteomics, upstream and downstream processing, and quality control and validation, all developed and aligned based on industry demands.. Gain real-world work experience through experiential projects that partner you with industry-leading companies.



## B.Sc. Biomedical Science

Biomedical Science is concerned with therapeutic substances. Their discovery, origin and nature, their development into medicines and their use in disease prevention and treatment.

## B.Sc. Molecular Biology & Genetics

Molecular Biology and Genetics study organisms on a cellular and molecular level. This is a rapidly developing field of biological sciences which has many important applications not only in Biomedical Sciences but also in other domains such as agriculture.

## B.Sc. Medical Lab Technology (MLT)

Medical Laboratory Technology is an Allied Health specialty concerned with the diagnosis, treatment, and prevention of diseases through the use of clinical laboratory tests. Though the Medical Lab technologists spend less time with patients than doctors and nurses, medical laboratory professionals are just as dedicated to patient's health. As vital members of the health care team, medical laboratory professionals play a critical role in collecting the information needed to give the best care to an ill or injured patient. The fact is that the practice of modern medicine would be impossible without the tests performed in the laboratory.

## M.Sc. (Biotechnology)

A student must be prepared to face new challenges and have an interest in related fields, if they want to become a part of this course. The field of Biotechnology uses living organisms to generate controlled processes or even final products. Students pursuing this degree learn about a wide range of topics. On the biological side, focuses may include Genetics, Microbiology, Cellular Biology and Biochemistry. On the design and engineering side, students may learn about subjects such as process design and Genetic Engineering. Some programs also allow students to focus on a sub-discipline, such as the role of Bioengineering and Bioscience in healthcare or food production. This degree program prepares students for biotechnology careers by encompassing a broad range of subjects that many degree programs do not. Besides providing students with the necessary knowledge, the degree coursework fosters problem -solving and critical thinking skills that prepare students to take on various design and engineering challenges.

## M.Sc. (Microbiology)

The students who are skilled in using Microscope and possess basic knowledge of computers can also pursue this course. The candidate should be of curious nature and creative, have problem solving skills and detail oriented mind to opt for this course. Microbiology is the study of small living things that cannot be seen without the use of a microscope such as microorganisms or microbes. Microorganisms include bacteria, viruses, microscopic fungi, yeasts, and microscopic algae. Graduates in microbiology follow careers like a biomedical scientist, scientific laboratory technician, science writer etc. The science of microbiology is relatively young, and it offers practical applications for different areas of human activity: Medicine, Agriculture, Nutrition, Biotechnology and more. Theoretical and practical accumulation of Cellular and Molecular Biology, have led to the improvement of Microbiology Domains, resulting in the rapid development of Microbiology as a Multilateral Science. Studying Microbiology touches upon elements of other disciplines like Biochemistry, Biomedicine, Public Health, Environmental Impacts, and Human Health.

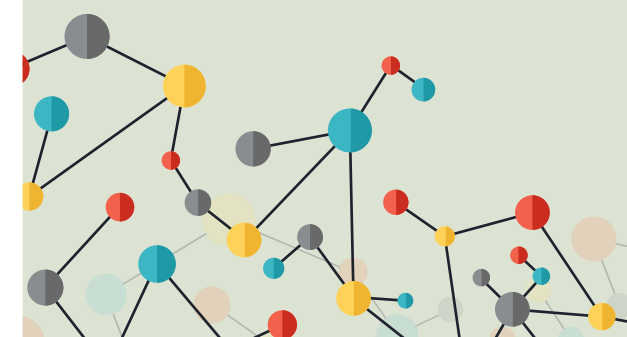
## M.Sc. Physics

Physics is a branch of science which is concerned with the study of matter and energy and the interaction between them. The course also imparts knowledge on the fundamental principles of several branches in Physics. This course initiated in Suresh Gyan Vihar University covers the basic knowledge of various specializations like nuclear physics, high-energy Physics, Condensed Matter Physics, Astrophysics, Cosmology, Medicine, Mining and Geophysics.



## M.Sc. (Electronics)

Masters in Electronics Program is design to build in enrolled candidates problem-solving abilities, management skills and expertise in designing and operation of electronics systems. The course offers candidates the opportunity to specialize in the current and emerging areas of Computer Science and Telecommunications. Electronics is the branch of Physics, engineering, and technology dealing with electrical circuits that involve active electrical components such as vacuum tubes, transistors, diodes, and integrated circuits.







## M.Sc. Mathematics

The postgraduate course in Mathematics enables the candidates to use their mathematical knowledge in different areas.

This course has got a great scope and there are ample opportunities available for the postgraduates. Mathematics is the heart of advances in science, engineering, and technology, as well as being an indispensable problem-solving and decision-making tool in many other areas of life. This program enables you to delve deeply into particular aspects of pure and applied mathematics, through a wide choice of modules in fascinating areas such as fractal geometry, coding theory and analytic theory. M.Sc. (mathematics) basically is a piece of independent study, exploring one of a range of mathematical topics in detail and concluding this study by a dissertation.

## M.Sc. Chemistry

Chemistry is the science of matter and the changes effected by it. Chemistry is more specialized and is concerned with the composition, behaviour, structure and properties of matter. It is also about the changes that matter undergoes during chemical reactions. This program is designed to give insights in specific aspects of chemistry based on the interest of a student who can suitably build a career in industry, academics or research.

## Ph.D. in Sciences

With broad infrastructural facilities and a sound research base, the Institute offers Ph.D. program in a wide range of areas in Sciences. The wide objectives of the Ph.D. program are to contribute to expanding the frontiers of knowledge and to provide research training. The academic program leading to the Ph.D. degree is broad-based and involves a course credit requirement and a research project leading to thesis submission. The Institute also encourages research in interdisciplinary areas through a system of joint supervision and interdepartmental group activities. The Institute undertakes sponsored research and development projects from industries and other organizations in public as well as private sector.

The program has been designed keeping in view recent advances and developments in the relevant research fields and also in accordance with the UGC norms. A primary requirement for the Ph.D. degree is an original and significant research contribution.

## We offer a Ph.D. in following areas-

- ▶ **Zoology & Botany**
- ▶ **Chemistry**
- ▶ **Biotechnology**
- ▶ **Microbiology**
- ▶ **Biochemistry**
- ▶ **Environmental Science**
- ▶ **Physics**
- ▶ **Mathematics**



# RECRUITERS

