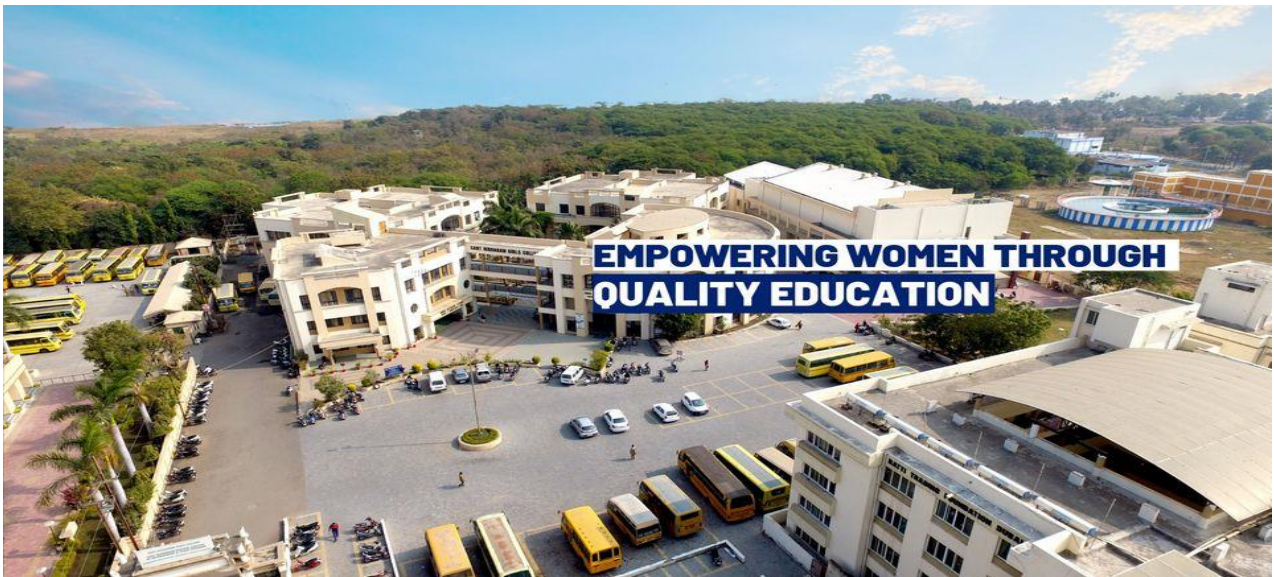




Sant Hirdaram Girls College, Bhopal

As Per National Education Policy-2020 **PROGRAM SPECIFIC OUTCOMES** 2022-2023



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Sant Hirdaram Girls College, Bhopal

Program Specific Outcomes

According to New Education Policy

S.N o.	Name of the Program	Program Specific Outcomes
1.	BCA	The student will be able to: 1. Equip themselves to potentially rich & employable in the field of computer applications. 2. Pursue higher studies in the area of Computer Science/ Applications. 3. Take up self-employment in Indian & global Software market. 4. Meet the requirements of the Industrial Standards.
2.	B.Sc. (CS)	<ul style="list-style-type: none"> • Provides basic knowledge on core concepts of Computer Science. • Ability to solve problems using programming languages and software tools. • Capable of analysing, designing, developing, testing and implementing software systems. • Acquire skill in Mathematics, Electronics and Computer Science courses. • Empowered with analytical mind and critical thinking. • Ability to communicate the technical aspects of systems with peers and customers. • Possess employability and entrepreneurship skills
3.	B.Sc. (Botany)	The student will be able to: 1. Identify major groups of plants and compare the characteristics of lower (e.g. algae and fungi) and higher (angiosperms and gymnosperms) plants. 2. Use the evidence based comparative botany approach to explain the evolution of organism and understand the genetic diversity on the earth. 3. Explain various plant processes and functions, metabolism, concepts of gene, genome and how organism's function is influenced at the cell, tissue and organ level. 4. Understand adaptation, development and behaviour of different forms of life. 5. Understand networked life on earth and tracing the energy pyramids through nutrient flow 6. Demonstrate the experimental techniques and methods of their area of specialization in Botany.
4.	B.Sc. (Biotech)	The objective of this course is to build the basic foundation for studying Biotechnology. The demand for trained workforce in Biotechnology is ever growing in fundamental research and industry sector. Academic and research sectors also require interdisciplinary training manpower to foster the Biotechnology Revolution. The curriculum aims to impart

		basic knowledge with emphasis on its applications to make the students ready for industries and research work in concerned field. The student could pursue a career in biochemical testing and can also go in medical laboratory technique courses, opening opportunities in hospitals and pathological laboratories.
5.	B.Sc. (Chemistry)	<ol style="list-style-type: none"> 1. To expand and explore the various aspects of chemistry through theory and practical to develop their skill and knowledge. 2. To understand various nomenclature, stereochemistry, structure, reactivity and mechanism of the chemical reaction. 3. To identify chemical formula and solve numerical problems. 4. To understand the usage of modern chemical tools, models, chem.-draw, charts and equipment <p>To know, understand and analyse the structure- activity relationship.</p>
6.	B.Sc. (Physics)	<ol style="list-style-type: none"> 1. The student will be understanding a scientific knowledge of the physics principles and its learning areas 2. Demonstrate the ability to use skills in basic Physics concept and its attempting Physics-related problems. 3. Employ critical thinking and the scientific knowledge to design, carry out, record and analyse the results of Physics experiments. 4. Create an awareness of the impact of Physics on the society, and encouraging the student's development outside the scientific community. 5. After the completing course having a knowledge about the theory as well as practical.
4.	B.Sc. (Zoology)	<ol style="list-style-type: none"> 1. Develops empathy & love towards the animals. 2. Students can appear in IFS, PSC, and UPSC etc. 3. Developing personal skill can work in the field of Sericulture, Apiculture, Pisciculture, Poultry, Museums, Zoological Parks etc. 4. Apply knowledge and understanding of zoology in one's own life & work.
5.	B.Sc. (Maths)	<ol style="list-style-type: none"> 1. Enabling students to develop a positive attitude towards Mathematics as an interesting and valuable subject of study. 2. Ability to analyse a problem, identify and define the computing requirements, which may be appropriate to its Solution. 3. Student is equipped with mathematical problem-solving skills, creative talent and power of communication necessary for various kinds of employment.
6.	B.Sc. (Microbiology)	<p>The student Will be able to:</p> <ol style="list-style-type: none"> 1. Students will become familiar with scientific methodology, design and execution of experiments. 2. Students will develop the ability to think critically and to read analyse scientific literature. 3. Students will develop strong oral and written communication skills through the effective presentation of experimental result as well as through seminars. 4. Students will appreciate the biological diversity of microbial forms and be able to describe/explain the processes used by micro-organisms for their replication, survival, and interaction with their environmental, and host population.

		<p>5. Students will learn to use scientific logic as they explore a wide range of contemporary subjects spanning various aspect of basic microbiology such as Bacteriology, Virology, Biochemistry, Microbial physiology, Immunology, and Molecular biology, in addition to becoming aware of the applied aspects of microbiology such as Industrial Microbiology, Food and Dairy Microbiology, Environmental Microbiology and Medical Microbiology to Name just a few.</p>
6.	B.Sc. (F & N)	<ul style="list-style-type: none"> • Create effective nutrition plans aimed at disease prevention and treatment, strengthening of the immune system, and nourishment of the body. • Concerned with therapeutic uses of nutrition, usually in medical settings, as part of a complete health care program. • Identifying and classifying food and foodstuffs. Knowing their composition, properties, nutritive value, bioavailability, organoleptic, sensory and gastronomic characteristics, and the changes they undergo as a consequence of technological and culinary processes.
7.	B.Com	<p>After the completion of the course the student would be able:</p> <ul style="list-style-type: none"> • To develop subject-knowledge expertise across a range of business, accounting, economics, finance, auditing, and marketing disciplines. • To opt and pursue further study and research in the subject of business and finance. • To recognise the traits and functions of businessmen, entrepreneurs, managers, and consultants that can help learners develop knowledge and other soft skills and respond appropriately when faced with difficult decision-making situations. • To have a good base especially for the students aspiring to opt for professional courses like CA, CS, and CMA through its study of taxes as a specialisation. <p>To go for wide-range of job opportunities including those of tax officials, auditors, actuaries, accountants, business consultants, stock brokers, investment analysts, marketing managers, revenue agents, certified public accountants, cost estimators, and financial analysts.</p>
8.	BBA	<p>After the completion of the course the student would be able:</p> <ul style="list-style-type: none"> • to understand finance, financial instruments, and markets. • To look for career opportunities in banks, insurance companies, and other private and public sectors for the position of assistant manager, junior accountant, sales officer, financial advisor, etc. • to develop in-depth knowledge of the concept of HRP and manage HR successfully in an enterprise. <p>to foster an understanding of the industrial and organisational structures, as well as their roles in supporting the business system</p>

9.	M.Sc. (CS)	<ul style="list-style-type: none"> • Provides technology-oriented students with the knowledge and ability to develop creative solutions. • Develop skills to learn new technology. • Apply computer science theory and software development Concepts to construct computing-based solutions. • Design and develop computer programs/computer-based systems in the areas related to algorithms, networking, web design, cloud computing, Artificial Intelligence.
10.	M.Sc. (Mathematics)	<ul style="list-style-type: none"> • Provide knowledge of a wide range of mathematical techniques and application of mathematical methods/tools in other scientific and engineering domains. • Apply the knowledge of mathematical concepts in interdisciplinary fields. • Students will be able to qualify national level tests like NET/GATE etc. • To encourage collaborative learning and application of mathematics to real life situations.
11.	M.Sc. (Biotechnology)	<ul style="list-style-type: none"> • This program will enable students to understand the detail about the immunology and immune responses, molecular level cell structures and their Genetics. Plant and animal biotechnology concepts, Types of antibiotics and their mechanism of working, cell signalling, they will learn about the Biochemistry and Enzymology too
12.	M.Sc. (F&N)	<p>Applying scientific knowledge of physiology, biochemistry, therapeutic nutrition to individual diet planning and counselling, both in healthy (dietetics) and ill (diet therapy) clients, at every stage of life.</p> <ul style="list-style-type: none"> • Designing and carrying out health status assessment protocols and identifying nutritional risk factors. • Interpreting a nutritional diagnosis, evaluating nutritional aspects of a clinical record and implementing a dietary treatment plan. • Understanding the structure of food services, nutrition departments and hospital nutritionists, and identifying and developing the functions of a nutritionist-dietician in a multidisciplinary team.
13.	M.Sc. (Chemistry)	<ul style="list-style-type: none"> • Demonstrate, apply and develop the fundamental knowledge of the basic principles in the various disciplines of Chemistry. • The course will focus on developing a problem-solving attitude and aptitude towards various topics, with substantiated practical exposure. • To additionally be able to think methodically, independently and draw logical conclusions. • It will also create awareness and sense of responsibilities towards environment and apply knowledge to solve various Environmental Pollution related issues. • The course is designed in a manner which enhances critical thinking & evolve scientific knowledge to design, carry out, record and analyze the results of important chemical reactions, for a holistic approach towards the subject

14.	M.Com.	After the completion of the course the student would be able: <ul style="list-style-type: none">• to develop practical management accounting professional skills.• to apply both quantitative and qualitative knowledge in various dimensions of business.• to demonstrate mastery and develop the capacity to appear in competitive examinations like the CA, CS, CMA, and other courses.• to recognise the characteristics and functions of businesspeople, entrepreneurs, managers, and consultants, which will help learners develop knowledge and other soft skills and respond appropriately when faced with difficult decision-making situations.
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