

# SADHU VASWANI AUTONOMOUS COLLEGE, BAIRAGARH

## Program Outcomes, Program Specific Outcomes

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### Program-Undergraduate

#### Courses Program Outcomes:

#### Student will:

- Develop critical thinking.
- Enhance life skills, will develop language competence and soft skills.
- Understand the use of analytical methods required for interpreting, analyzing results and drawing conclusions as per the data.
- Have better employability in the field of finance, industry, administration, social and extension work, IT sectors, research and many others.
- Be able to pursue career in multi-disciplinary fields.
- Develop confidence to appear for various competitive exams related to public and private sectors.

#### Program Specific Outcomes:

##### (A) Faculty of Arts

##### (I) BA (Bachelor of Arts)

The Faculty of Arts offers the following subjects under Under-graduate program— Political Science, English Literature, Hindi Literature, Sociology, Economics, Foundation Course (English Language, Hindi, Entrepreneurship Development and Environmental Studies) is a common compulsory subject for all the students.

- The study of various subjects under this program enables the students to acquire life skills and be a better human being.
- Students will develop language competence and proficiency in oral communication and written skills.
- Students will imbibe a sense of national pride and respect for the nation by studying varied cultures, customs, literature, architecture, constitution, life skills, music, society etc.
- The study of various subjects under Humanities will facilitate students to become efficient leaders, able administrators, entrepreneurs and extension workers.

**(i) Department of Economics**

**Program Specific Outcomes**

- To provide and adapt curricula that prepares our graduates for employment.
- To provide students with the opportunity to focus on applied and policy issue in economics.
- Students will be able to explain core economics terms, concepts and theories.
- To encourage the students to collect, process and interpret data, including statistical inference.
- Students will develop of critical thinking skills within the discipline of economics about economic matters.

**(ii) Department of English**

**Program Specific Outcomes**

- The students should familiarize with the artistry and utility of the English language through the study of different genres of literature.
- The students are expected to develop critical faculties necessary in an academic environment and on the job in an increasingly complex, interdependent world.
- The under graduate students should be comfortable in performing research, analysis, and criticism of literary and cultural texts from different historical periods and genres.
- The students are encouraged to develop intellectual flexibility, creativity, and cultural literacy so that they may engage in life-long learning.
- To develop intellectual, personal and professional abilities through effective
- communicative skills; ensuring high standard of behavioral attitude through literary subjects and shaping the students socially responsible citizens.
- The student will become skilled in interpreting literary language and literary arte facts through various forms of literature such as poetry y, drama, prose, novel and short story
- Students should be proficient in oral communication and writing.

**(iii) Department of Hindi**

**Program Specific Outcomes**

- To understand the basic concept and subject of Hindi and its origin.
- To make or not the importance of subject Hindi and its branches.
- To understand various aspect of Hindi literature with a process to reach method and giving new mode and direction.
- To make an attempt in different area and theory such as vocabulary and vice versa.
- To understand in the literature more in a border area then Mary confined to subject.

## Program Specific Outcome

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- To know about Hindi literature its roots cause perspectives and methods.
- Elaborating and understanding its philosophical methods of Hindi lit.
- Evaluating the concept of Hindi from past to present and making the society more closely through literature.

### (IV) Department of Political Science

- The Political Science undergraduate program was born out of recognition of the increasing Significance of cross-disciplinary studies in the social sciences.
- The program is organized around the combined perspectives and analytical tools of Political Science, International Relations and History.
- The Political Science degree furnishes the students with a unique multidisciplinary approach in social sciences and prepares them for further academic study and/or for careers in the public and the private sector.

### Department of Sociology

#### Program Specific Outcomes

- The programmer seeks to develop in student the sociological knowledge and skills that will enable them to think critically and imaginatively about society and social issues.
- Better understanding of real life situation. The ability to apply sociological concepts and theories to the real world and ultimately their everyday lives.
- Sociological understanding: The ability to demonstrate sociological understanding of phenomena for example how individual biographies are shaped by social structures  
Better Understanding of real life situation: The ability to apply sociological concepts and theories to the real world and ultimately their everyday lives.
- Observation powers: a sensible observation power is necessary to identify the research problems in field study so a perception about human society slowly grows up.

### BCA –

#### Program Specific Outcomes

After completion of three years BCA programme the students will be able to understand, analyze and develop computer programs in the areas related to algorithm, web design and networking for efficient design of computer based system. They will have hands on practices of various programming languages and technologies.

Scholars can achieve opportunities to work in the IT sector as system engineer, software tester,

## Program Specific Outcome

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junior programmer, web developer, system administrator, software developer etc.

They will be able to apply standard software engineering practices and strategies in software project development using open source programming environment to deliver a quality of product for business success according to the market requirements.

### Objectives of BCA programme:

1. Major objective of the programme is to develop scholars potentially rich & employable in the field of computer applications.
2. They can also pursue higher studies in the area of Computer Science/Applications.
3. Scholars can be self-employment in Indian & global software market.
4. They can acquire more practical knowledge to meet the requirements of the Industrial standards.

## BBA

### Program Specific Outcomes

- Course provides adequate basic understanding about Management education among the students and to recognize and solve business problems in an ethical manner.
- Develop Critical and Analytical Thinking Abilities in the students so as to make them competent for Industry as manager and provide an opportunity for self-employment as a Business man.

Program Specific Outcome (PSO): BBA

BBA program aims to provide its graduates:

PSO1: Selection of effective communication skills in a variety of organizational settings.

PSO2: Developing comprehensive strategic and tactical plans for an organization.

PSO3: Understanding the importance of independent and collaborative inter or multidisciplinary diverse work environment.

PSO4: Applying problem solving and decision making frameworks that propose defensible solutions to organizational opportunities challenges change and risk.

PSO5: Evaluating the dynamics of Global Business Environment from a competitive and economic perspective.

PSO6: Creating a business plan including business feasibility assessment and financial analysis projections for an innovative new business product or services.

## **B.Com**

### **Program Specific Outcomes**

- The course provides a platform for experimental learning and grooms students towards industry specific curriculum with focused approach on specific areas which are crucial in the management of companies.
- After completing three years for Bachelors in Commerce (B. Com) program, students would gain a thorough grounding in the fundamentals of Commerce, Management, Marketing and Finance.
- The course is focused on the all-round development of the students' personality through proper education and exposure to the vast treasure of knowledge.
- The course provides exposure to students in the latest trends in relevant branches of knowledge giving them the needed competence and creativity to face global challenges and enhance Entrepreneurship Potential
- Students have a plethora of choices to pursue professional courses such as CA, MBA, CMA, ICWA, CS, CFA, etc. The students will be ready for employment in functional areas like accounting, taxation, banking, insurance and corporate law.
- Student can opt various disciplines for Post-Graduation such as Commerce and Humanities

### **B.COM WITH APPLIED ECONOMICS:**

#### **PROGRAM SPECIFIC OUTCOMES (PSO):**

- Students will be able to understand economic vocabulary, methodologies, tools and procedures.
- Students will be familiar with the knowledge and application of micro economics for the formulation of policies and planning.
- Students will learn to apply economic theories and concepts to contemporary social issues, as well as analysis of policies.
- Students will be able to understand the impact of government policies and will be able to assess the consequences of the policies on the parties involved.
- It enhances them to compute and assess the real situation of the economy including the size and changes of population, income pattern, and rate of development with pattern of savings and investments and social security measures adopted in the country.
- Students will be able to pursue their career as Financial Analyst apart from different positions in the field of accounting, taxation, banking, insurance and corporate law

### **B.Com with Computer Applications:**

#### **PROGRAM SPECIFIC OUTCOMES (PSO):**

Students will improve their computer literacy, their basic understanding of operative systems and a working knowledge of software commonly used in academic and professional environments. Students will learn to organize information efficiently in the forms of outlines, charts, etc. using appropriate software. Students will acquire skills for designing and delivering an effective presentation and developing the various IT skills to electronic databases. 26

- Students will be able to design and implement a web page.
- students will be able to perform E-Banking, E-Marketing, E-Learning, E-Shopping
- Students will understand the concept of supply chain management & customer relationship management • Students will be able to perform any C++ programming tasks.

### **M.Com**

Enlighten a student with conventional as well as Contemporary and Modern areas in the discipline of Commerce.

- Course provide in-depth understanding of all core areas
- specifically, Advanced Accounting, Advance Economics, Management (Finance, Marketing, Human Resource, Production, Inventory)
- Compel and create interest students towards doing • Research. • Course open the ways of M.Phil., NET, PhD

### **Department of Computer Application**

#### **Program Specific Outcomes**

On the Completion of the program, students will gain a strong foundation of knowledge in different areas of Commerce and Computer Application courses. The student will be able to pursue higher education and take-up jobs in the field of Commerce and Computer Applications. The program develops an attitude for working effectively and efficiently in a business environment.

At the end of the Program, students will be able to:

- Graduates will be able to develop strong understanding of core Commerce and Computer
- Application courses. Able to take up challenging career options in Commerce

## Program Specific Outcome

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and IT sector.

- Motivated to pursue higher education. Gain updated knowledge to take up employment.

### **M.Sc(CS)**

- 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.

## **Department of Chemistry and Industrial Chemistry**

### **Program Specific Outcomes**

- The course of chemistry will help them to think critically and analytically. By doing experiments they will come to know practically the concept of error, accuracy and precision. They will also be familiar with safety guidelines to be used in any chemical laboratory. After studying papers of industrial chemistry students will be well versed with the various techniques used in industries. The course will teach the concept of working in teams. With topics of environmental chemistry, they can help the society about various types of pollutants and pollution and how it can be controlled. UG students will be able to correlate chemistry with their everyday life.

## **Department of Zoology**

Program Outcomes, Program specific outcomes and course outcomes to BSc in Zoology program.

### **Program outcomes-BSc -Zoology**

- Aware students about knowledge and skill in the fundamentals and systematic of animal kingdom.
- Gain knowledge of anatomical structure and various metabolic functions of organisms.
- Information and skill of advanced biological Technique for experimental purpose.
- Awareness about environment and its conservation process, pollution control and its importance.
- Gain knowledge of protection of vulnerable and endangered species.
- Aware students about ethical principles and commit to professional ethics and responsibilities.

## Program Specific Outcome

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- Information and skill of applied zoology including sericulture, apiculture, Lac culture, fisheries, poultry, vermiculture, agricultural pests, and their control etc.
- Gain knowledge of communicable and non-communicable disease to improve personal and public health.

### Program Specific outcomes- BSc - Zoology

- Acquire knowledge on the various aspects of life sciences, cell biology, genetics, taxonomy, physiology, applied zoology, general embryology and public health.
- Gain knowledge to identify and list out common invertebrate and vertebrates.
- Students will be able to understand, classify and identify the diversity of animals.
- Understand the application of biological science, in Apiculture, Sericulture, poultry, Fisheries, Aquaculture, Agriculture and vermiculture.
- Understand good laboratory practices and safety, carry out experimental technique and methods of cell biology, physiology, genetics, applied zoology, pathology, entomology, sericulture, biochemistry, microtomy.

### FINAL OUTCOME OF PROGRAMME: -

- Apply the knowledge of various branches of Zoology and general biology meant for a graduate course for further higher studies.
- Understand the unity of life with the rich diversity of organisms and their ecological, evolutionary and environmental significance.
- Acquire basic skills in the observation and study of nature, biological techniques, experimental skills and scientific investigations

### Department of Botany

#### Program Specific Outcomes

The aim of this course is to ensure that you can achieve an up to date level of understanding of plant science.

- The study of Botany dealing with the structure, function, classification and evolution of plants has inspired many great minds.
- It is fascinating to study the wide spectrum of reproduction process in algae, fungi, lichens, bryophytes, petridophytes, gymnosperm and flowering plants.
- A student of Botany has been learning their aspects together with taxonomy, anatomy, plant pathology, plant breeding, microbiology, plant physiology, biochemistry, ecology, genetics, molecular biology and plant biotechnology.



## Program Specific Outcome

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### **B.Sc.(Biotechnology)**

Students will get the in-depth knowledge about concept of Eukaryotic cell systems, Cell-cell interactions, replication, transcription, translation mechanism.

• The tools and techniques used and the applications of Biotechnology in various fields like environment, food technology etc.

### **M.Sc. (Biotechnology)**

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 signaling, they will learn about the Biochemistry and Enzymology too.

## **Department of Microbiology**

### **Program Specific Outcomes**

Upon completion of B.Sc. Microbiology programme, the students will be able to Use the aseptic techniques to control the microorganism and conduct the process of sterilization.

Perform the basic techniques related to screening, isolation and cultivation of microorganisms from various sources.

- Study the microorganism with regard to morphology, cultural and biochemical characters. It will help to classify the microbes to certain extent.
- Understand microorganisms and their relationship with the environment.
- Produce and analyze the microbial products at laboratory level.
- Conduct the basic research with these microorganisms and perform the diagnostic procedures required in food, milk and pharmaceutical industries.

## **Physics**

### **B.Sc. Physics**

### **Program Specific Outcome**

Undergraduate B.Sc. Physics programme would provide the opportunities to the students as follows:

- Students understand the basic laws and explore the fundamental concepts of Physics.
- Students would gain practical knowledge about electricity, magnetism, optics and electronics to explore the relevant skills.
- To apply the theories learnt and the skills acquired to solve real time problems and utilized to applications purpose.
- To acquire a wide range of problem solving skills, both analytical and technical and to apply them.

## Program Specific Outcome

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- To enhance the student's academic abilities, personal qualities and transferable skills this will give them an opportunity to develop as responsible citizens.
- To produce graduates who excel in the competencies and values required for leadership to serve a rapidly evolving global community.
- To motivate the students to pursue PG courses in reputed institutions.
- This course introduces students to the methods of experimental physics. Emphasis will be given on laboratory techniques specially the importance of accuracy of measurements.

### **B.Sc. Physics**

#### **Program Outcome**

Undergraduate program would provide the opportunities to the students as follows:

- B.Sc program is very useful for the students to learnt about branch of science.
- Apply the knowledge of physics, chemistry computer and mathematics to the solution of complex problem of science.
- After completion the programme students capable to speak, read write clearly in person through by electronic media.
- The program motivates to higher studies and research development.
- The program enhances to understand the ability of different issues of global environment, sustainable development and social aspects.
- This program is capable to modern tool usages, operate advance instruments and enabled to IT techniques.

### **B.Sc. Electronics**

#### **Program Outcome**

Undergraduate program would provide the opportunities to the students as follows:

- B.Sc program is very useful for the students to learnt about branch of science.

### Program Specific Outcome

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- Apply the knowledge of physics, Electronics and mathematics to the solution of complex problem of science.
- After completion the program students capable to speak, read write clearly in person through by electronic media.
- The program motivates to higher studies and research development.
- The program enhances to understand the ability of different issues of global environment, sustainable development and social aspects.
- This program is capable to modern tool usages, operate advance instruments and enabled to IT techniques.

#### **B.Sc. Electronics**

#### **Program Specific Outcome**

Undergraduate B.Sc. Electronics program would provide the opportunities to the students as follows:

- Students understand the basic laws and explore the fundamental concepts of Electronics.
- Students familiar with the electronic instruments, circuit board and devices.
- Students able to understand number system basic logic gates, concepts of Boolean algebra and techniques to simplify Boolean expressions that will help to solve the complex problem.
- Students analyze and design the circuit board, assembling, combinational and sequential circuits.
- Students would gain practical knowledge about electronic circuits, digital and communication electronics to explore the industries.
- To apply the theories learnt and the skills acquired to solve real time problems and utilized to applications purpose.
- To motivate the students to pursue PG courses in reputed institutions.
- This course introduces students to the methods of experimental physics. Emphasis will be given

## Program Specific Outcome

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on laboratory techniques specially the importance of accuracy of measurements.

### Program Specific Outcomes:

(A) Faculty of Arts

(I) MA (Master of Arts)

The Faculty of Arts in the college offers PG in Hindi.

- Students should develop critical faculties necessary in an academic environment and on the job in an increasingly complex interdependent world.
- Students should be familiar with representative literary and cultural texts within a significant number of historical, geographical, and cultural contexts.
- Students should be able to apply critical and theoretical approaches to the reading and analysis of literary and cultural texts in multiple genres.
- Students will also develop insight for research and study of research methodology will help them to present their ideas in a structured manner.
- Students will develop a thorough knowledge of theories, concepts and research methods in the field and apply them in research design and data analysis

### Department of Hindi

#### Programme Specific Outcomes

MA in Hindi - After completion of the course, the student will develop ability.

- To prepare for the examinations like NET/ SLET/ Ph.D
- To make use of Hindi language for getting employment.
- To prepare for competitive examinations.
- To appreciate Hindi literature.
- To inculcate moral values in order to strengthen the society.
- To prepare for journalism.
- To prepare for work on computer in Hindi.
- To prepare for post of Hindi Adhikari in Government and banks.

**Department of Chemistry**

**Programme Specific Outcomes**

- The course of chemistry will help them to think critically and analytically. By doing experiments they will come to know practically the concept of error, accuracy and precision. They will also be familiar with safety guidelines to be used in any chemical laboratory. The units of biology, math's and computer will help them in better understanding of their higher studies. After studying papers of industrial chemistry students will be well versed with the various techniques used in industries. The course will teach the concept of working in teams. With paper of environmental chemistry, they can help the society about various types of pollutants and pollution and how it can be controlled. Students will be able to correlate chemistry with their everyday life. The theoretical concepts studied in UG and PG classes will help them in starting their own ventures. After completing PG course students will be trained to a greater extent to find jobs in various related fields.

**B.Sc(Maths)**

Enabling students to develop a positive attitude towards mathematics as an interesting and valuable subject of study.

- Ability to analyze a problem, identify and define the computing requirements, which may be appropriate to its solution.
- Student is equipped with mathematical problem solving skills, creative talent and power of communication necessary for various kinds of employment.

**Programme Specific outcome of M.Sc. Mathematics**

Create a hypothesis and appreciate how it relates to broader theories.

- Evaluate hypothesis, theories, methods contexts.
- Solve complex problems by critical understanding, analysis and synthesis.
- Select interpret and critically evaluate information from a range of sources that include books, scientific reports, journals and the internet.