**B.B.D. GOVT. COLLEGE CHIMANPURA (SHAHPURA), JAIPUR**

**(2016-17)**

## 2.6.1. Program outcomes, program specific outcomes and course outcomes for all programs offered by the Institution are started and displayed on website and communicated to teachers and students

- **Program Outcomes (POs):** It represents the knowledge, skills and attitudes the students should have at the end of a course completion of their respective program.
- **Course Outcomes (COs):** It gives the resultant knowledge and skills the student acquires at the end of each course. It defines the cognitive processes a course provides.
- **Program Specific Outcomes (PSOs):** These are statements that define outcomes of a program which make students realize the fact that the knowledge and techniques learnt in this course has direct implication for the betterment of society and its sustainability.

**Program Outcomes (POs), Program Specific Outcomes (PSOs) and course outcomes are communicated to the stake holders of the program by the following procedures.**

POs and PSOs are available in the Institute website (https://hte.rajasthan.gov.in/college/gcsccchimanpura)

POs and PSOs are kept in prominent locations of the campus for staff, students and public view.

POs and PSOs are displayed in Department office, Laboratories and Library.

Staff member review POs and PSOs during faculty meetings.

Vision and Mission of Institute and department are informed to the parents during Parent Teacher Meeting.

COs are communicated to the students during the introduction class itself. During the discussion of the course, the outcomes of the course are also focused. During the commencement of each unit and after the completion of the unit, the course outcomes are reviewed.

**VISION:** To emerge as a 'center for excellence' offering higher education of high standards to students belonging to rural and agricultural background, to develop total personality of the individual and instill high level of discipline and strive to set global standards making our students ethically sound who in turn shall contribute for the betterment of society and human kind**.**

**MISSION:** To dedicate and commit ourselves to achieve, sustain and foster excellence in higher education. To this end , we will pursue continuous development of infrastructure and enhance the state of equipments to provide our students an up-to-date and intellectually inspiring environment of learning , creativity, innovation and professional activity and inculcate in them ethical and moral values**.**

**B.Sc. (Biology group)**

**Program Outcomes**

**PO1 :** The students study Botany, Zoology and Chemistry

**PO2:** The students are made aware of plant and animal diversity along with environmental consciousness.

**PO3:** Students are made aware of pollution problems and are taught waste management and the importance of green environment.

**PO4:** The students develop an understanding of physical and chemical aspects of various processes related to life, environment and chemical reactions.

**PO5:** The students are enabled to use critical thinking and efficient problem solving skills in the various fields of chemistry like analytical, organic, inorganic and physical.

**PO6:** They know the proper procedures and regulations for safe handling and use of chemicals.

**PO7:** Achieve basic foundation for research

**Program Specific Outcomes**

**PSO1:** Students understand various chemical, biological and physical processes of nature.

**PSO2:** Students learn mechanisms related to reactions and understand their relevance in newer fields of development.

**PSO3:**Gain knowledge about the plant kingdom and animal kingdom their classification, relation to each other and ecosystem and sustainability of environment.

**PSO4:**Different techniques to manufacture soaps, detergents, cement, glass, dyes and drugs using modern methods.

**Course Outcomes**

**CO1:** Students become aware of biodiversity, environmental ethics, applications of biological and chemical sciences in Apiculture, Aquaculture, Agriculture and medicine.

**CO2:** Students will become conversant with research methodologies, effective communication and data analysis.

**CO3:** With strong foundation in biological sciences students engage in small scale industries, pursue teaching at primary levels or proceed for higher education in the field of their interest namely Biotechnology, Chemical sciences, Environmental science or Agro industry.

**CO4:** Students become better and responsible citizens.

**B.Sc. (Mathematics group)**

## Program Outcomes

**PO1:** The students after completing their course at graduate level with Physics, Chemistry and Mathematics will develop an understanding of major concepts , theoretical principles and experimental findings in the above subjects.

**PO2:** They acquire the knowledge about fundamental principles and scientific theories related to various scientific phenomena and their relevance in everyday life.

**PO3:** Students develop ability to analyze available data and draw appropriate conclusions.

**PO4:** Students are taught to deal with wide variety of physical and chemical problems with the help of mathematics.

**PO5:** Become more competent to face the world.

**PO6:** Students will demonstrate awareness and understanding of ethical standards of their academic discipline .

## Program Specific Outcomes

**PSO1:** Students attain various theoretical and analytical skills

**PSO2:** Able to use variety of methods to design experiments, analysis and interpretation of data and its application in research & industries.

## Course Outcomes

**CO1:** Proceed for B.Ed., M.Sc., MCA, M.Tech, MBA and qualify exams like JAM, GATE etc.

**CO2:** The course provides opportunity to the students to proceed for jobs in IT industries and electronics departments.

**B.Sc. Hons. (Agriculture group)**

## Program Outcomes

**PO1:** Students graduating with B.Sc. Agricultural science degree should be able to acquire agriculture knowledge.

**PO2:** Apply the knowledge of horticulture, Agronomy, organic and sustainable agriculture and integrating pest management to the solution of Agriculture related issues.

**PO3:** Imparting detailed knowledge of Agriculture & its allied branches.

**PO4:** Study of market & marketing of agricultural produce.

## Program Specific Outcomes

**PSO1:**The students understand the basic principles involved in agriculture and their practical applications.

**PSO2:**The knowledge about the importance of organic farming, pest control and management and marketing of agriculture produce.

**PSO3:**Students are able to work for the development of rural India & the course enhances innovation in the farming activity.

## Course Outcomes

**CO1:** Students gain professional knowledge on different innovative techniques of farming. They become prominent factors to enhance the agriculture produce and bring self sufficiency in agriproducts in rural India.

**CO2:** Students join research Institute to develop and implement new technologies in farming.

**M.Sc. (Botany)**

## Program Outcomes

**PO1:** Plant sciences are now an amalgamation of basic and applied science. Plants besides being the unique capability of plants to trap solar energy and provide food to all cannot be replicated by any system. Conventional studies like plant identification is now being supplemented with molecular techniques like DNA Barcoding. The course has been designed to benefit all Botany students to study various aspects of plant science including its practical applications. Keeping in mind that these students can take up teaching at different levels, research work in research institutes or industries, doctoral work, environment impact assessment, biodiversity studies, entrepreneurship etc. relevant topics have been included in the curriculum.

**PO2:** Students would be benefited with knowledge of core subjects like plant diversity, physiology and biochemistry, molecular cytogenetics and application of statistics etc. which are offered in these subjects Modules on analytical techniques, plant tissue culture and phytochemistry would make them obtain skills in doing research. All the courses in the programme are carefully designed to equip the students for competitive exams like CSIR NET, SET etc. and to write research proposals for grants.

**PO3:** Students will understand the relationship between science and society by recognizing and discussing logical, scientific and ethical issues in Botany

## Program Specific Outcomes

**PSO1:** Understanding the classification of plants from cryptogams to Spermatophyte. Identification of the flora in field. Study of biodiversity in relation to habitat correlate with climate change, land and forest degradation. Application of Botany in agriculture through study of plant pathology. Paleobotany to trace the evolution of plants

**PSO2:** Understanding the ultra structure and function of cell membranes, cell communications, signaling, genetics, anatomy, taxonomy, ecology and plant Physiology and biochemistry. To understand the multi functionality of plant

cells in production of fine chemicals and their wide spread industrial applications

**PSO3:** Molecular and Physiological adaptations in plants in response to biotic and abiotic stress.

**PSO4:** Genes responsible for stress tolerance genetic engineering of plants

**Course Outcomes**

**CO1:** Think Critically - Get ability to apply the process of science by formulating hypotheses and design experiments based on the scientific method.

**CO2:** Analyze and interpret results generated through studies in botany, taxonomical treatments, field studies, excursion tours and laboratory techniques used in the subject.

**CO3:** Use quantitative reasoning by using mathematical calculations and graphing skills to solve problems in plant science (Botany)

**CO4:** Effective Communication and collaborate with other disciplines by effectively communicating the fundamental concepts of Botany in written and oral format.

**CO5:** Identify credible scientific sources to interpret and evaluate the evidences

**CO6:** Understand the relationship between science and society by recognizing and discussing logical, scientific and ethical issues in Botany subject.

**CO7:** Environment and Sustainability: Understand the issues of environmental contexts and sustainable development with respect to assessment, conservation and utilization of floral diversity.

**CO8:** Apply the principles of cell biology in designing experiment, statistical analysis, and interpretation of results, operate and solve exercise using computation statistics software and get acquainted with basic approach in the research methodology.

**M.Sc. (Chemistry)**

## Program Outcomes

**PO1:** To mold a generation of youth who can apply the subject knowledge in their life and careers.

**PO2:** To inculcate scientific attitude enriched with a multidisciplinary perspective in the students

**PO3:** To update the students with the needs of the industry and society.

**PO4:** To develop a generation who feels responsible towards the society and the nation.

## Program Specific Outcomes

**PSO1:**To educate and prepare post graduate students from rural and urban area who will get employment on large scale in academic institutes, R & D and Quality control laboratories of Indian chemical/pharmaceutical industries as well as multinational and forensic Laboratories.

**PSO2:**To provide students with broad theoretical and applied background in all specialization of Chemistry with emphasis on qualitative and quantitative technique.

**PSO3:**To provide broad common frame work of syllabus to expose our young graduates to the recent and applied knowledge of interdisciplinary branches of chemistry involving applied organic, inorganic, physical, analytical, industrial, pharmaceutical, polymer, Nano science & technology.

**PSO4:**To focus on encouraging students to conduct various academic activities like seminar, assignments and seminar presentation

## Course Outcomes

**CO1:** A graduate with a Master's degree in Chemistry has in-depth and detailed functional knowledge of the fundamental theoretical concepts and experimental methods of chemistry.

**CO2:** The graduate has expert knowledge of a well-defined area of research within chemistry. The graduate has specific skills in planning and

conducting advanced chemical experiments and applying structural-chemical characterization techniques. Skilled in examining specific phenomena theoretically and/or experimentally, the graduate is able to contribute to the generation of new scientific insights or to the innovation of new applications of chemical research.

**B.Com.**

**Program Outcomes**

**PO1:** The commerce and finance curriculum offers a number of specialization and practical knowledge in the field of accounting, statistics, auditing and co-operate accounting.

**PO2:** The students will get knowledge of finance and Banking.

**PO3:** The students will gain complete knowledge about Indian Economy and economic environment

**PO4:** The students will get awareness about rural development and Entrepreneurship

**PO5:** The details of market and administrative skills give them knowledge about function of management/ Business laws/ Business economies.

**Program Specific Outcomes**

**PSO1:**The program would skill the students regarding various aspects like, marketing, Accounting, Banking and financial aspects of companies.

**PSO2:**Students will demonstrate progressive learning of various tax issues and tax forms related to individuals.

**PSO3:**Student would possess knowledge about principles of management, Business laws/ Business economies.

**PSO4:**Enhancement of capabilities to make decision on personal and professional level.

## Course Outcomes

**CO1:** After completion of graduation, students would acquire basic foundation in accounts, Finance, Costing and Taxation and pursue advanced higher education course of their interest.

**CO2:** Students are competent to take up professional courses like CS, CA, ACCA, CMA etc.

**CO3:** With relevant managerial accounting skills, students can now apply both quantitative and qualitative knowledge to their future careers in business.

**CO4:** Students can independently start up their own business.

**M.Com.**

## Program Outcomes

**PO1:** The students will gain traditional and upcoming knowledge in the field of Income tax, wealth tax, gift tax and GST.

**PO2:** Newer techniques of Auditing, cost & management Audit.

**PO3:** Students will understand principles of Financial accounting and financial management, economic environment, public enterprise and its management.

**PO4:** Students will gain knowledge about human resource management and marketing management.

**PO5:** Understand the Indian Banking System and applications of statistics for analyzing variety of data.

## Program Specific Outcomes

**PSO1:**Students can calculate, fill and file Income tax returns, wealth tax and GST returns.

**PSO2:**Understand the dealings with Bank.

**PSO3:**Understand working of share market.

**PSO4:** Students can prepare Accounts of individuals, companies and co-operate business.

**PSO5:** Students can undertake incorporation and management of small scale industries.

**Course Outcomes**

**CO1:** With post graduate degree in commerce, students can take up jobs in Tax Department, Auditing and account preparation work.

**CO2:** Students take up posts as financial advisors, economic analysts and managing director in different departments.

**CO3:** Students get employment in banks public sectors and also in statistical department.

**CO4:** Students become entrepreneur with knowledge about incorporation, management and marketing skills.

**B.Ed.**

**Program Outcomes**

**PO1:** Understand the concept, nature and characteristics of growth and development of a child.

**PO2:** Understand the concept & process of teaching – learning.

**PO3:** Critically analyze the classroom teaching and learning and ability to observe classroom behavior.

**PO4:** Apply the methods and strategies of knowledge acquisition, retention and transformation in new & unfamiliar situations.

**PO5:** Students are able to employ critical thinking and efficiency in problem solving ability to transform comlex information in clear and concise manner.

**PO6:** The students have effective writing and oral communication skills especially the ability to transmit complex information in crystal clear manner.

## Program Specific Outcomes

**PSO1:** To develop an understanding of the contemporary Indian society with special reference to education.

**PSO2:** To be able to interact with students from diverse socio-economic backgrounds.

**PSO3:** To enable the students to use learner centric teaching methods and adopt latest & innovative techniques.

**PSO4:** Enable the students to apply their knowledge & skills to succeed in their professional development or pursue postgraduate education to pursue flexible career paths amidst future changes.

## Course Outcomes

**CO1:** Students with B.Ed. degree can pursue post graduation program in Education.

**CO2:** Student work in schools, coaching institute or in Education consultancies.

**CO3:** Students can pursue home tuitions to earn their living.

**CO4:** Students transform into more responsible citizens working for the betterment of the society.

The average pass percentage of the class in the end semester/year examination is also an indication of the general progress of the class as a whole.

University results and rankings are assessments to check if outcomes are achieved.

**The pass percentages of the batch that passed out during year 2016-17 are indicated in the table.**

| B.B.D GOVT.COLLEGE CHIMANPURA (SHAHPURA), JAIPUR | | | | |
|---|---|---|---|---|
| **2.6.1 - Results of Annual Examinations (2016-17)** | | | | |
| **S.No.** | **Class** | **No. of students appeared** | **No of students passed** | **Pass Percentage %** |
| 1 | B.Sc. Pt - I | 326 | 209 | 64.11 |
| 2 | B.Sc. Pt - II | 279 | 173 | 62 |
| 3 | B.Sc. Pt - III | 259 | 223 | 86.10 |
| 4 | M.Sc. Botany (Pre.) | 15 | 14 | 93.33 |
| 5 | M.Sc. Botany (Final) | 11 | 10 | 90.90 |
| 7 | B.Com. Pt - I | 83 | 44 | 53.01 |
| 8 | B.Com. Pt - II | 136 | 114 | 83.82 |
| 9 | B.Com. Pt - III | 152 | 134 | 88.15 |
| 10 | M.Com (Pre.) ABST, EAFM, Bus. Adm. | 112 | 103 | 91.96 |
| 11 | M.Com (Final) ABST, EAFM, Bus. Adm. | 82 | 80 | 97.56 |
| 12 | B.Sc. Ag (Sem. I) | 60 | 60 | 100 |
| 13 | B.Sc. Ag (Sem. II) | 67 | 67 | 100 |
| 14 | B.Sc. Ag (Sem. III) | 45 | 45 | 100 |
| 15 | B.Sc. Ag (Sem. IV) | 54 | 54 | 100 |
| 16 | B.Ed Pt - I | 98 | 98 | 100 |
| 17 | B.Ed Pt - II | 95 | 95 | 100 |