

## **SGHS College, Sri Jiwan Nagar**

### **Programme Outcome, Programme Specific Outcome, Course Outcome**

#### **PROGRAMME OUTCOME**

Three year Degree Programme in Bachelor of Science.

#### **B.Sc :-**

- Bachelor of Science (B.Sc.) is a three year degree programme after 12th. It offers theoretical as well as practical knowledge and information about different subjects like Physics, Chemistry, Mathematics, Zoology, Botany, Computers and Compulsory subjects like Environmental studies, English and Hindi at various levels. The students have options for various streams. Students of nonmedical stream have options for Physics, Chemistry, Mathematics and Computers etc., whereas students of Medical stream have options for Botany, Zoology, Chemistry. This programme is beneficial for students with interest in science, mathematics, biology etc. The Programme and courses are also beneficial for students who wish to make careers in medical science, research and technology. Following are the programme outcomes.
- This Course makes the base for students who have interest in science and wish to make career in science in future.
- The Courses develop scientific temper and scientific attitude with logical thinking in various aspects of daily life.
- The Programme and courses opted by students also prepared them to make career in teaching and research.

#### **PROGRAMME SPECIFIC OUTCOMES:- (A) Three Years Degree Programme in B.Sc.**

##### **Medical :-**

- Students studying in B.Sc. Medical, acquire the knowledge of life sciences like botany, zoology, biotechnology and chemistry.

- Students are able to define, explore and explain the structure, function, metabolism of various groups of plants, animals and microorganisms including bacteria and viruses.
- Students get the theoretical and practical knowledge of subjects like, Botany, Zoology, Chemistry and Biotechnology.
- They also develop awareness about environment and computer skills by compulsory subjects of Environmental Studies and Computer Awareness.
- Communication Skills of the students also increased by compulsory subjects of Hindi and English.
- They are able to experience with various instruments and techniques used in laboratories during practicals. This will also help them in future in research and industrial sector.
- Students communicate the biological knowledge for their career advancement, to society at various levels. It will be more beneficial to society in Scientific development and hence growth and development of nation as a whole.
- After completion of this programme, students may go for higher studies like M.Sc., and research etc.
- Students after this programme have the option to prepare for various competitive exams like Civil Service, IFS, CDS, Indian Army, Bank PO, Income Tax Department, Pollution Control Board etc.
- Science graduates can serve in industries like Electronics Equipments, Electrical and Pharmaceuticals.
- Students can also set up their own small or large industrial unit, startup etc.
- After completing this programme, students have chances to move in education sector or in multinational Companies to make their future career.
- Students, after completing this programme may move to agriculture sector, marketing sector, and in various government sectors.
- Students get the knowledge about the structure, function and development of living organisms of molecular, cellular, organismic level and ecological level.

- Students inculcate the ability for the application of acquired knowledge in various day to day life activities like Health, Sanitization, Immunization, Nutritious diet.

## **DEPARTMENT OF CHEMISTRY (B.Sc Medical and Non- Medical with Chemistry)**

### Program Outcome Chemistry

- Chemistry makes our world more colourful, more efficient, more reliable and safer. Curing of cancer to common cold involves chemicals.
- Pharmaceuticals, Cosmetics, Body care products, Safety air bags, brake fluids, baking soda, R.O system, insecticides, detergents, cups, plates, tyres, cement, paints, tiles, nylon, toothbrush, paste, fertilizers, utensils etc, every material we use is a product of chemistry.
- After the completion of B.Sc students have the option for higher studies i.e. M.Sc and then join PhD, can also join PSU's like DRDO, ISRO, ONGC etc for their better growth.
- After higher studies they can join as a scientist and can also go for professional jobs.
- They can join as a engineer in Indian Oil Corporation, Mining, as analyst in various industries, can also opt for civil services exams.
- Students of Chemistry have an ability to apply knowledge of chemistry in their daily life and can make their life easier.
- Chemistry students have also knowledge about the working of Fire Extinguisher. 8. They may employ as a chemist in various fields.

### Program Specific Outcomes

- The students are acquiring knowledge of Chemical Thermodynamics, Kinetics, Electrochemistry, Organic synthesis, spectroscopy and skill in industrial chemistry.
- They get training to prepare soaps and candles on small scale so they can pursue industrial carrier.
- Chemistry plays an important role in the discovery of highly explosive material like TNT etc. Phonographs records are made up of polyvinyl chloride have added to our pleasure for listening to music.
- Chemistry also led to the discovery of preservatives.

- Life savings drugs like cisplatin and taxol are used to cure cancer and AZT FOR AIDS.

## **DEPARTMENT OF COMPUTER SCIENCE**

Programme Outcomes, Program Specific Outcomes, Course Outcomes Course Outcomes:

To produce employable IT workforce, that will have sound knowledge of IT and business fundamentals that can be applied to develop and customize solutions for Small and Medium Enterprises (SME).

To develop skilled manpower in the various areas of information technology like: Data base management, Software Development, Computer-Languages, Software engineering, Web based applications etc.

The Program enables the students to:

- Understand the fundamental concepts of Computers, Business environment and IT Applications in Business.
- Successfully understand & analyze technical data to reach actionable conclusions, including technological solutions to the business.
- Learn technologies & IT languages, so the business problems could be addressed.
- Develop competent technical writing skills so as to enable the graduate to communicate business ideas to senior management and general public.
- To identify and sharpen their IT/ programming skills.

**Learning Outcomes:** Our graduates will have

- The necessary technical, scientific as well as basic managerial and financial procedures to analyze and solve real world problems within their work domain
- Clarity on both conceptual and application oriented skills in commerce, Finance & Accounting and IT Applications in Business context.

- c) Improved communication and business management skills, especially in providing tech support.
- d) Awareness on ethics, values, sustainability and creativity aspects.
- e) The ability and the mindset to continuously update and innovate.

## **DEPARTMENTS OF MATHEMATICS COURSE OUTCOMES**

Mathematics is usually described as the abstract science of numbers, quantity and space along with their operations. The scope of Mathematics is very broad and it has wide range of applications in natural sciences and engineering, economic and social sciences. B.Sc. course aims to develop the ability to think critically, logically and analytically and hence to use Mathematics in everyday life. We can appreciate the usefulness, power and beauty of mathematics. During B. Sc. course in Mathematics we came across algebra, calculus, vector calculus, ordinary differential equation and Laplace transforms, advanced calculus, partial differential equation and special functions, mechanics, groups and rings, sequence and series.

## **DEPARTMENT OF GEOGRAPHY**

Bachelor of Arts (B.A.) Programme Outcomes:

Anand College offers a programme entitled of Bachelor of Art (B.A.) to the students with a facility of different combinations. The students can select any combination from the offered subjects like Geography, Economics, Political Science, History, Mathematics and Punjabi. The opportunity of studying in their field of interest not only enhances their intellectual maturity but also help to secure their future prospects in terms of higher education, jobs or any other further skill development programme. Some programme outcomes are:

A student can pursue the higher study in any particular subject after the successful completion of the Bachelor of Arts.

A graduate student has the sufficient potential for getting a good job in various dynamic fields like banking, education, archaeology, tourism, medical, public services, public prosecution, journalism, economics, politics etc.

The degree of Bachelor of Arts with the study of social issues helps a person to be a human being in real sense and offers an extra advantage to comprehend the society and its interaction with other aspects of the life. They can be good social workers.

### **Programme Specific Outcomes:**

#### BA Geography

Geography is a discipline bridging the social and natural sciences and includes the study of different spatial and social phenomena on the earth's surface. On one side, the subject is attached with natural science through the study of spatial characteristics of the various natural phenomena relating to the earth while on another side, it also deals with humanities or social science through the study about the human behaviour, processes and their interaction with physical space where they live. Geography, the study of the earth's surface, is an academic discipline that can lead to a career in mapping, planning, or environmental protection. Several colleges and universities offer undergraduate, master's, and doctoral degrees in geography, and many allow students a chance to focus in specific areas within this field, like global information systems (GIS) or environmental geography. Field study and lab work is often required in geography courses at all levels.

### **DEPARTMENT OF PHYSICAL EDUCATION**

#### Programme Outcome:

Department of Physical education Health and physical education offers students the opportunity to not only be physically active, but it helps students to build confidence, to learn different movement skills and its helps them to work as a team. Health and physical education will help our students to live longer and healthy lives.

It gives a wide range of job opportunities to the students as follows:

1. Astd. Professor
2. Sports Manager
3. Physical Education Trainer
4. Health educator
5. Coach
6. Fitness Instructor
7. Yoga Trainer
8. Gym Trainer
9. Sports Trainer.

Thus this course is important for the holistic growth of students. The course aims at to get students acquainted with health and physical education. It helps the students to understand meaning, aim, objective and importance of physical education in modern society .It also

helps in understanding the importance of Health & Hygiene, Introduction of Yoga. Students learn about the Human Anatomy and Physiology

## **DEPARTMENT OF HISTORY**

### Program Outcomes

#### Bachelor of Arts

1. The students acquire knowledge in the field of social sciences, literature and humanities which make them sensitive and sensible enough.
2. The B.A. graduates will be acquainted with the social, economical, historical, geographical, political, ideological and philosophical tradition and thinking.
3. The program also empowers the graduates to appear for various competitive examinations or choose the post graduate programme of their choice.
4. The B. A. program enables the students to acquire the knowledge with human values framing the base to deal with various problems in life with courage and humanity.
5. The students will be ignited enough to think and act over for the solution of various issues prevailed in the human life to make this world better than ever.
6. Programme provides the base to be the responsible citizen.

### **Program outcomes Department of history**

1. Understand background of our religion, customs institutions, administration and so on.
2. Understand the present existing social, political, religious and economic conditions of the people.
3. Analyze relationship between the past and the present is lively presented in the history.
4. Develop practical skills helpful in the study and understanding of historical events. They:  
(a) Draw historical maps, charts, diagrams etc. (b) Prepare historical models, tools etc. 5 .Develop interests in the study of history and activities relating to history. They: (a) Collect ancient arts, old coins and other historical materials; (b) Participate in historical drama and

historical occasions; (c) Visit places of historical interests, archaeological sites, museums and archives; (d) Read historical documents, maps, charts etc. (e) Play active roles in activities of the historical organizations and associations; and (f) Write articles on historical topics. 6. The study of history helps to impart moral education. 7. History installs the feeling of patriotism in the hearts of the pupils.

## **DEPARTMENT OF ECONOMICS**

**BACHELOR OF ARTS WITH ECONOMICS PROGRAMME OUTCOMES** for UG course of Economics

- 1- To develop skills in graduate students so that they are able to acquire theoretical and practical knowledge about economics, economy, economic behavior, economic policies and economic institutions and economic problems and their solutions.
- 2- To inculcate ability in students for critical thinking, lateral thinking about economic phenomena, problems and policies so as to create professional potential in them
- 3- To create awareness on ethical issues, good business practices, and ecologyeconomics interface.
- 4- To development ability in youth for understanding basic economic rationality and effective communication skills.
- 5- To prepare youth for career in teaching, industry, government organizations and self-entrepreneurship

## **DEPARTMENT OF POLITICAL SCIENCE**

Program Outcomes:

Understand the world, their country, their society as well as themselves and have awareness of ethical problems, social rights, values and responsibility to the self and to others. Understand different disciplines from natural and social science to mathematics and art, and develop interdisciplinary approaches in thinking and practice. Think critically, follow innovations and developments in every phase. Communicate effectively by oral, written, graphical and technological means. Develop knowledge of theories, concepts & research methods in humanities and social sciences. Develop the ability to make logical inferences about social & political issues on the basis of comparative and historical knowledge. Political



Science goes beyond the politics carried out in a national social system. Political Science helps to understand the concept and origin of power and different types of power relationships. The course is aimed at shaping the students perception and outlook on social, economic and political environment of India and beyond.

## **DEPARTMENT OF COMMERCE**

Programme: B.Com. Programme Outcomes: → After completing Bachelor's in Commerce (B.Com.) program, students would gain a thorough understanding in the fundamentals of Commerce and Finance. → Capability of the students to make decisions at personal and professional level will increase after completion of this course. → The knowledge of different specializations in accounting, costing, banking and finance with the practical exposure helps the students to stand in organization. → This program could provide Industries, Banking sectors, Insurance companies, Financing companies, Transport agencies, Warehousing etc., well trained professionals to meet the requirements. Program Specific Outcome: → Students will learn relevant financial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business. → Learners will be able to recognize features and roles of businessmen, entrepreneur, managers, consultant, which will help learners to possess knowledge and other soft skills and react aptly when confronted with critical decision making. → Learners will acquire the skills like effective communication, decision making, problem solving in day to day business affairs. → Learners can also acquire practical skills to work as tax consultant, audit assistant and other financial supporting services. → Learners will be able to do higher education and advance research in the field of commerce and finance.

## **DEPARTMENT OF ENGLISH**

Programme Outcome of Different Courses B.A. (English as Compulsory Subject) 1. It helps in developing a better understanding of words which improves students various analytical skills. 2. It helps in developing excellent writing and communication skills. 3. A bachelor's degree in English literature assures mastery and expertise over the entire literature that has been produced in the language so far, along with the socio-cultural historic understanding associated with the language. 4. Learning English language provides ample career opportunities to students ranging from teaching jobs to media related professions. B.A. (Functional English) 1. This course helps the students to practice the ways in which English

language functions. 2. In this course students are trained to use proper English for business, financial, technical and academic communication effectively. 3. This course is a specially designed practical course that engages with the real life usages of the language. Students are made to engage in role plays, public speaking sessions, mock business meets, student media productions etc. 4. Students focus more on the day to day practical usage of the language.