

DAV College Amritsar

Department of Computer Science & IT

BCA Programme Outcomes:

- An ability to apply knowledge of computer science, mathematics in practice.
- An ability to enhance not only comprehensive understanding of the theory but its application too in diverse fields.
- The program prepares the young professionals for a range of computer applications, computer organizations, techniques of computer networking, software engineering, e-Commerce, Web development, Big Data, IOT, Python and Java.
- An ability to design a computing system to meet desired needs within realistic constraints.
- In order to enhance programming skills of the young IT professionals, the students are required to do project development in the final semester.

B.Sc (IT) Programme Outcomes:

- Focuses on preparing students for roles pertaining to computer applications and IT industry
- Developing programming skills, networking skills, learn applications, packages, programming languages and modern techniques of IT
- Get skills and info not only about computers and information technology but also in organization and management
- Learn programming languages such as Java, C++, HTML, SQL, etc...
- Information about various computer applications and latest development in IT
- Gives overview of the topics in IT like networking, computer graphics, web development, trouble shooting, and hardware and software skills.

B.VOC Programme Outcomes:

- Understand the concepts of key areas in computer science
- Focuses on preparing students for roles pertaining to computer applications and IT industry
- An ability to enhance not only comprehensive understanding of the theory but its application too in diverse field.
- Developing programming skills, networking skills, learn applications, packages, programming languages and modern techniques of IT
- Get skills and info not only about computer and information technology but also in organization and management

M.Sc (Computer Science) Programme Outcomes:

- Understand the concepts of key areas in computer science.
- Analyze and apply latest technologies to solve problems in the areas of computer applications.
- Enrich the knowledge in the areas like Artificial Intelligence, Web Services, Cloud Computing, Paradigm of Programming language, Design and Analysis of Algorithms, Database Technologies Advanced Operating System, Mobile Technologies, Software Project Management and core computing subjects.
- Analyze and synthesis computing systems through quantitative and qualitative techniques
- Apply technical and professional skills to excel in business.
- Communicate effectively in both verbal and written form.
- Develop practical skills to provide solutions to industry, society and business.

DCA Programme Outcomes:

- To provide Higher Education to diverse section of society as an instrument of democratizing Education
- Focuses on preparing students for roles pertaining to computer applications and IT industry
- Develop programming skills, networking skills, learn applications, packages, programming languages and modern techniques of IT
- Get skills and info not only about computer and information technology but also in organization and management

PGDCA Programme Outcomes:

- To provide Higher Education to diverse section of society as an instrument of democratizing Education
- Apply knowledge of programming, computing and domain knowledge to solve problems.
- Analyze real world problems and use available technological solutions to design and implement the same.
- Identify modern development tools and techniques and use them to develop solutions.

- Show the technical proficiency in field of IT Application.

Department of Zoology

B.Sc. Medical Course Outcomes Programme Specific Outcomes

The programme gives insight of diversity in Animal world spread throughout the globe, varied behavioral patterns in their natural habitat, their interaction with environment and conservation. It enables one to dispel myths, superstitions and witchcrafts. The programme instills skills in the use of instruments and presentation techniques. The course gives better understanding and awareness of human health by applying various aspects of parasitology, physiology, biochemistry, body defence mechanisms in disease control & vaccination, basics of developmental biology and genetics. Also technical skills like Blood group testing, basic Urine analysis etc associated with Medical Lab, microbiological, biochemical and staining techniques are developed which may further facilitate academics and research too. A sense of responsibility towards the sensitive issues like water crisis, global warming, pollution and garbage management is evolved. Furthermore lab safety measures, animal ethics including animal welfare guidelines are also grasped which spread love and empathy towards animals. Micro projects support to know basic bio statistical methods used to analyze data, literature collection & citation. Students with Zoology background can pursue pure and applied life sciences.

Department of Physical Education

B.A(Physical Education) Programme outComes

Programme leads to achieve and maintain a health-enhancing level of physical fitness. It makes us exhibit a physically active lifestyle and helps to understand that physical activity provides opportunities for enjoyment, face challenges and self-expression. It leads to the development of responsible social behavior while participating in various events. It develops an insight into the relationship between history, culture and origin of games. The programme improves the knowledge of rules and strategies of Particular Game and Sports. The programme also provides knowledge regarding the working of different organs of human body.

Department of Zoology

Programme Specific and Course Outcomes

B.Sc. Medical

The programme provides insight into diversity of Animal world across the globe, varied behavioural patterns in their natural habitat, their interaction with environment and conservation. It enables one to dispel myths, superstitions and witchcrafts. The programme instills skills in the use of instruments and presentation techniques. The course gives better understanding of human health by applying principles of parasitology, physiology, biochemistry, immune mechanisms in disease control & vaccination, developmental biology and genetics. Also, technical skills associated with medical lab like Blood group testing, Urine analysis etc, microbiological, biochemical and staining techniques are developed which further facilitates academics and research. A sense of responsibility towards the sensitive issues like water crisis, global warming, pollution and garbage management is evolved. Furthermore lab safety measures, animal ethics and empathy towards animals is encouraged. Micro projects inculcate basic biostatistical methods used to analyze data, literature collection & citation.

Department of Journalism and Mass Communication

MA-JMC -Masters in Journalism and Mass Communication

On successful completion of a program in the Department of Journalism and Mass Communication One will be able to develop:

- Soft Skills and Working Skills related to Media Teaching & Industry.
- Practical exposure leading to employment opportunity in Media.
- Orientation towards media entrepreneurship and Innovation.
- Appreciation towards ethical standards in the profession.
- Adaptation and updation to the changing media scenario.
- Research and analytical aptitude related to various media field.

BA-JMC -Bachelors in Journalism and Mass Communication

- Ability to apply the techniques of reporting, writing and designing skills in print media, Broadcast and Digital media.

- Work on the various editing software and hardware used in the media organisation and journalism field
- Ability to apply different research techniques and strategies on a wide cross sections of the journalism.
- Prepared in the managerial aspects of Broadcast and New Media as required by the industry. Trained in Marketing management and Brand Management of various media products.
- Communicate effectively across various platforms of Media. At the end of the course will be having hands on experience with extensive training and media exposure through formal internships.

Mass Communication and Video Production as Elective Subject

Graduates of this program will be able to:

- Communicate effectively across multiple platforms.
- Demonstrate an understanding of relevant ethical and legal frameworks in their disciplines.
- Ground their professional work in relevant theories.
- Represent high levels of professionalism.

Department of Political Science

Programme Specific Outcomes and Course Outcomes

POLITICAL SCIENCE (ELECTIVE SUBJECT: B.A. I, II, III)

- The discipline of Political Science opens wide horizons in the field of Laws since it is closely integrated with legal studies.
- The subject of Political Science inculcates and develops skills required for lucrative career in Political Journalism.
- Political Science ensures capacity building and grooming of budding political leaders by providing know-how about the functioning of various political systems and regional and international organisations.
- The study and knowledge of the subject develops and enhances the rational and value free outlook in analysing dynamics of politics.
- Political Science has been a popular and important option in Civil Services examinations.

- Political Science is an important subject in the Social Sciences combination for B. Ed. Programme.

B.A. HONOURS (POLITICAL SCIENCE) : PROGRAMME SPECIFIC OUTCOMES

- The study of Political Science lays down a solid foundation for further higher studies and research in the subject.
- This course enhances the analytical and scientific observatory skills of the students regarding International Relations and dynamics of Foreign Policy.
- This programme develops the skills of the students in pursuit of making them good and efficient administrators with its emphasis on the study of Public Administration.
- This programme enriches the young minds with the political thought of renowned Indian and Western Thinkers with an objective of keeping them connected with the basic political value system as well.

Department of History

BA and MA History

- The students gain insight and get inspired from the life's of past kings, warriors, freedom fighters, thinkers, writers, philosophers etc. knowledge of civilizations makes us more wise and innovative in the present ages in all the fields.
- Studying history enables us to develop better understanding of the world in which we live and learn from our past mistakes and achievements.
- Building knowledge and understanding of historical events and trends, especially over the past centuries, enables us to develop a much greater appreciation for current events today.
- To know about remembering people, events, dates of historical significance.
- To become logical, scientific and rational human being.
- Studying History can lead to all kinds of careers. Some of the more popular options include government positions (e.g. Departments of Foreign Affairs, Immigration and Aboriginal Affairs), all kinds of NGOs, teaching, journalism and the media, tourism, heritage consultancy and planning, museums, libraries, archives, public history, and project management.

Department of Biotechnology

Programme Specific Outcomes

- The course curriculum of Biotechnology provides pathway for students to acquire knowledge in Biochemistry, Microbiology, Molecular Biology, Animal Tissue Culture, Immunology, Plant Tissue Culture etc. and update their theoretical and practical understanding of Modern Biotechnology.
- They are provided hands on experience on basic laboratory skills that are commonly used in Biotechnology research. They are prepared to carry out research in university, industry or government research institutes.

Course Outcome

- They develop skills and scientific knowledge applicable to range of careers including industrial sector, environmental sector, medical sector, food manufacturing, health-care and pharmaceuticals. A **biotechnology** graduate can be employed across several industries as biochemists, biophysicists or medical scientists
- Students can interpret and critically analyze published literature of relevance to Biotechnology.

Department of Philosophy

BA Philosophy Programme Outcomes:

- To understand the concept of logic and builds valuable framework for better career opportunities.
- To develop the religious, spiritual and moral values.
- Serves to sharpen basic skills in critical thinking, problem solving, research, analysis, interpretation and writing.
- Helps with discovering for ourselves who we are and what manner of world we are in.

Department of English

Program Outcome

MA English

1. Better understanding of literature and development of literary taste
2. Language proficiency in the following areas:
 - i. Structure of language

- ii. Use of language in written and spoken form.
 - iii. Improvement in pronunciation and enrichment of vocabulary
3. Critical thinking and application of literature to real life situations

BA Honours (English)

1. Higher level of proficiency in English in comparison to that achieved by students pursuing elective courses in English
2. Preparation for moving to the post-graduate level
3. Wider exposure to various genres of literature

Elective Courses in English

1. Higher level of proficiency in English in comparison to that achieved by students pursuing compulsory courses in English
2. Introduction to various types of literary works and concepts
3. Ability enhancement for pursuing the subject at post-graduate level

Communication Skills in English

1. Better Listening, Speaking, Reading and Writing skills
2. Confidence building
3. Preparation for participation in placement drives
4. Better performance in international English language testing examinations like TOFEL, IELTS and PTE

Department of Physics

Programme Specific Outcomes and Course Outcomes

B Sc (Comp Sc)

This programme is suitable for students who thrive on intellectual challenges and are fascinated by technology. A computer science degree can lead a student to fulfill IT career. Because our society is becoming increasingly dependent on technology for our lives, from business to social interactions and beyond, computer scientist are sought after in a wide range of capacities. A student after completing this course can give professional support in computer hardware system companies, computer network companies, design and development companies, Government as well as private IT sectors, academic institutes, multinational companies, software development companies etc.

B Sc(N Med)

After completing B Sc (N Med) with physics and chemistry a sea of career options, starting from industry, government to academic are available for a student, such as research analyst, teacher, lab assistant, chemist, pharma assistant, clinical research specialist, toxicologist etc. After completing B Sc (N Med) a student can apply for many courses to get ahead in the field of his interest. Some of these courses are: Acoustical Physics, astrophysics, bio physics, fiberoptical physics, geophysics, health physics, nuclear physics .

M Sc(Physics)

After completing B Sc (N Med)/ B Sc (Comp Sc) , if a student is interested in energy, motion, space and all that falls under this universe then M Sc (Physics) is best option for the student. After completing this course a student can appear for CSIR NET exam and can pursue his career as a research scholar or in teaching. He can apply for job in scientific Research and Development organization (DRDO), institutes of Nuclear Physics. There are many opportunities available in IT field. Few companies are recruiting M Sc (Physics) graduates for software jobs, in energy plants, in automobile industry, radiation oncologist etc. Other main employment areas are agricultural research services, power generation companies, aviation industry, oil and natural gas companies, space research organization etc.

Department of Mathematics

Programme Specific and Course Outcomes

Course: M.Sc. (Mathematics)

The course provides in-depth knowledge of subjects like analysis which act as the building blocks for various applications such as signal and image processing, finger print compression, analysis of EEG and ECG signals. Abstract Algebra, Number Theory and Topology build the basic and core mathematical understanding of all real world shapes and geometries; building the logical reasoning for further applications in coding theory and cryptography. The Applied Mathematics provides mathematical models for various epidemics/ pandemics such as COVID-19 through graphs, charts and comparative tables. Operational Research helps in solving problems of agriculture, business management, production and defence. This program develops skills of processing raw data into refined one to draw a conclusion. Big Data Analysis and Data Science are the other areas open after doing M.Sc.

Course: B.A./B.Sc. (Non-Med/ Comp.Sci./Eco)

Mathematics provides the power of reasoning, creativity, abstract or spatial thinking, critical thinking and problem solving. The subject is very beneficial in understanding the complexity of problems and can help to be better programmers, data analysts, investment advisors etc. The students develop analytical & reasoning skills which are essential for overall growth and are able to connect and apply mathematical knowledge to real-world problems.

PG Department of Punjabi

(M.A. Punjabi Programme)

The outcomes of this program are as follows:

- To provide them the understanding and knowledge of Punjabi Literature and Culture.
- To sharpen their communicative skills in Punjabi.
- To enhance the critical thinking of the students.
- To develop the analytical skills of the students.
- To teach them several regional variants of Punjabi Language.
- To make them understand and appreciate the cultural tradition like Poetry, Prose, traditional folk dance, Philosophy, drama and theatre.
- To prepare them for National Eligibility Test (UGC NET and JRF) and various competitive exams.
- To help them to work as Translator, Tourist Guide, Content Writer, Language screener, etc.

Elective course in Punjabi

There are various outcomes of this course which are as follows:

- To enhance the knowledge of the students about prominent writers and their works in Punjabi literature.
- To equip them to write difficult literary works with the usage of literary devices.
- To prepare the students for Master Degree in Punjabi.

Compulsory Punjabi in UG Programs

The following are the outcomes of this course:

- To develop the student's interest in Punjabi Literature.
- To provide them the knowledge of Punjabi Culture and Tradition like Folk Dance, Folk Songs, Festivals, Fairs, etc.
- To sharpen their Writing, Speaking, Listening and Reading skills.
- To provide them the knowledge of Sentence Structure, Grammar and Vocabulary.
- Understand and appreciate the cultural contexts in which Punjabi is used.

P.G. DEPT. OF HINDI

Program Specific and Course Outcomes

Hindi (Elective Subject: B.A.)

- On Completion of B.A. (Hindi) students are able to understand the basic concepts, subjects of Hindi and its origin.
- To know about Hindi Literature its roots, cause, perspective and methods.
- Elaborating and understanding its philosophical methods of Hindi Literature.
- Evaluating the concept of Hindi from past to present and making the society more closely through Literature.
- In many states of the India Hindi is spoken and it prove a link language in society.
- Hindi being a National language is a dominantly spoken in all most entire country and acts to unite people across India.

M.A. HINDI PROGRAMME

The outcomes of this programme are as follows:

- Develop the interest in Literature, story, poetry & drama inoculate moral & human values within themselves.
- Use the Literature to develop their social and moral sense in life.
- Know the importance of language in human life.
- Develop knowledge of Hindi Linguistics & Grammar.
- To prepare them for National Eligibility Test (U.G.C., N.E.T. & J.R.F.) and various competitive exams.
- Students can opt any job including as Teacher, Media house, Central Govt. & undertaking as translator.

On 14th September, 1949 Hindi was adopted by the Union of India. Later in 1950, the Indian constitution proclaimed Hindi as official language.

Programme specific and course outcomes-

Sanskrit Elective in B.A.

संस्कृत विभाग

स्नातक विभाग संस्कृत भाषा के परिणाम एवं उद्देश्य

भारत की दो प्रतिष्ठाएं हैं भारतीय संस्कृति और संस्कृत भाषा, संस्कृति संस्कृत पर आश्रित है। संस्कृत वैज्ञानिक एवं प्राचीनतम भाषा है सभी भारतीय भाषाएं संस्कृत से विकसित हुई हैं और विश्व की अनेक भाषाओं पर इसका प्रभाव है। महाविद्यालय में स्नातक स्तर पर पढ़ाई जाने वाली संस्कृत के निम्नलिखित परिणाम एवं उद्देश्य हैं-

- * विद्यार्थियों को संस्कृत के साहित्य, व्याकरण, दर्शन एवं इतिहास का ज्ञान प्राप्त कराना।
- * विद्यार्थियों में विश्ववन्द्य- वेद, उपनिषद्, रामायण, महाभारत नीति आदि ग्रंथों को पढ़ने में सक्षम बनाना।
- * संस्कृत के आध्यात्मिक दर्शनों से परिचय कराकर उनमें चारित्रिक, नैतिक एवं आध्यात्मिक जागृति पैदा करना।
- * छात्रों को भाषा एवं व्याकरण का ज्ञान प्रदान करके उच्च शिक्षा एवं प्रतियोगी परीक्षाओं के लिए तैयार करना।
- * छात्रों को उच्च गुणवत्ता के आधार पर विभिन्न राजकीय विभागों में रोजगार प्रदान कराना।
- * योग, ज्योतिष, कर्मकांड आदि विद्याओं द्वारा आत्मनिर्भर बनाना।

Travel & Tourism (B.A.-I/II/III)

- Tourism is a worldwide industry, and the skills learnt are easily transferable. A career in tourism can literally open up the world, especially if one wants to combine work with travel.
- Tourism opens avenues and career as a Tourist Guide, Tour Manager, Adventure Sports Activity Manager, Travel Consultant, Event and Conference Manager, Air Cabin Crew or Airport Ground staff, Holiday Rep – the list is endless!
- Synthesize core concepts in the areas of hospitality, accounting, finance, human resources, marketing, operation and quantitative methods.
- Students will be able to engage in critical analysis and creative thinking, analyse trends and organisational data and develop business strategies for the hospitality and tourism industry.
- To explore the places which have lot of potential as tourist destination but are yet to explored.

Department of Chemistry

M.Sc. Chemistry

Course Outcome:

The course provides in a depth knowledge in specific branches of chemistry such as Organic, Inorganic, Physical and Analytical chemistry. This course develops skills such as :-

- Understanding of Advanced Analytical instruments and techniques there in, which enable them for a new start up.
- Designing a new drug molecule by understanding the concepts of structure activity relationship.
- Synthetic Strategies in Organic and Inorganic Chemistry making them aware about the processes and techniques of synthesizing small molecules.
- Analytical techniques for analyzing water samples for pollution level check, Adulteration in food stuffs and other samples.
- Study and understanding of Impact of harmful chemical to environment, their Analytical determination and understanding the remedial techniques.
- Handling of experimental data by using computational and statistical techniques.

Programme Outcome:

- Pursue Ph.D in Chemistry
- Geo Chemistry
- Analytical Chemists
- Technical Officer in Industry
- R& D officer in Pharma company

B.Sc. Course Outcome:

The course provides in depth knowledge and understanding of chemistry, basic fundamentals and laboratory practices which leads to:

- Development of scientific temperament in understanding day to day chemical processes.
- Understanding the various aspects of chemicals, their application, ill effects and remedial techniques
- Scientific understanding in subjects like organic chemistry that helps in studying the mechanistic path followed during a chemical reaction.
- Development of hands on laboratory skills in handling hazardous chemicals and their safety measures.
- Chemical education provides tools to solve problems related with process control.

Programme outcome:

After completing a degree with chemistry as one of the subject the students can avail following opportunities

- Pursue Master Degree
- Technical Assistant
- Project Assistant/ Data analyst/Chemist
- Research Assistant

Department of Economics

Course outcomes of MA Economics

- Economic Analysis: Students will be proficient in applying economic theories and models to analyze real-world economic issues.
- Policy Evaluation and Design: Gain the ability to assess economic policies by evaluating their potential impact on markets, industry, and common people.
- Quantitative Skills: Develop advanced quantitative skills essential for economic analysis, including statistics and econometrics.
- Inculcate Research and Critical Thinking: Cultivate the ability to conduct independent research through minor projects involving real life economic problems.
- Ethical Understanding: Understand the ethical dimensions of economic decision-making, including issues of equity, social justice, and sustainability.
- Communication Skills: Develop strong written and oral communication skills to effectively present complex economic concepts and analyses to diverse audiences.
- Specialization Knowledge: Acquire specialized knowledge in areas such as international economics, development economics, demographic economics and agricultural economics.

BSc in Economics Outcomes

- Gain a deep understanding of economic theories and principles.
- Develop quantitative and analytical skills to analyze economic data and trends.
- Acquire the ability to analyze economic issues, and interpret findings.
- Improve the understanding of prevalent economic issues of national and international importance and effectively express his own view point on the issues.
- Develop critical thinking skills to evaluate economic problems and suggest possible solutions.
- Develop an awareness of global economic issues and their impact on local and international economies.
- Learn to assess economic policies and their implications on society and business

These outcomes collectively prepare students for various career paths, including roles in finance, research, government, consulting, and more.