# Course Outcomes:
# Bachelor of Arts

## Subject: History

**COURSE OUTCOMES:**

CO1: Students will be able to understand the meaning of History, its emergence, and relationship with social science.
CO2: It will keep the foundational understanding of its nature and scope.
CO3: It will teach to the students about the various types of History like Ancient, Medieval and Modern.
CO4: It will develop the international understanding among the students.
CO5: After the completing of this course, students will acquire the knowledge of major events of the world history with special reference to England, Europe and South Asia.
CO6: Students will acquire the various dimensions of world history like political, social, economic, cultural and intellectual processes.
CO7: It will escalate the ability of historical knowledge, interpretations of facts, and arrangements of writings among the students.

## Subject: Political Science:

**COURSE OUTCOMES:**

After the completion of this course, the students will be able to:
CO1 Students will be able to understand the meaning, nature and scope of Political Science as a discipline.
CO2 Understand the subject especially with respect to Economics, History and Sociology.
CO3 Understand the concept of State and Government, Society and Association.
CO4 After completing this course, students will get aware about the Rights and Duties.
CO5 Understand the concepts of Justice, Liberty and Equality.
CO6 Understand the nature of Party System in India and role of Religion and Caste in the Indian Politics
CO7 To aware about the Composition and Powers of the Election Commission.
CO8 To understand the functioning of contemporary Political System.
CO9 Realize the role and importance of Regional Organizations like SAARC and EU.
CO10 Role of the United Nations keeping the world peace.

## Subject: Computer Application :

### Course Outcomes:

CO1 It will teach to the students about Fundamentals of IT (Information Technology).
CO2 Students will learn about the basics of computer, different types of computer memories, computer software's, number system, basic internet related concepts, various technologies like 3G, 4G, LTE and use of Information Technology in various sectors.
CO3 Students will learn about MS Office Automation Tools.
CO4 It will help students to learn about various Microsoft tools (MS word, MS Power Point, MS Excel and MS Access) and their working in detail.
CO5 Students will be enable to prepare reports, data files, presentations and databases by using these tools.
CO6 After completing this course, students will learn about programming skills using C language, different data storage structures and data storing and sorting techniques

CO7 Teach to design a web pages using basic web designing language HTML. In spite of HTML, students will learn about different computer networks, networking models, protocols and network security.

## Subject English Literature:

## Course Outcomes:

After completing this, the students will be able to:
CO1 Students will equip themselves with the literary terms pertaining to Prose and also enrich their knowledge of 'What is Literature?' Why do we study Literature?
CO2 Students will obtain the basics of Literature and Society and relevance of Literature in today's world.
CO3 It will enrich the student's knowledge by connecting with the history of English Literature from Chaucer to 18th century.3
CO4 It will show the real picture of drama, tragedy, literary devices pertaining to drama, setting, characters and theme.
CO5 Familiarize with important literary terms pertaining to drama.
CO6 It will produce imaginative writing in the front of students.
CO7 Promote critical writing skills by introducing the research papers and reviews.
CO8 Understanding the various cultures and human values.
CO9 Understand the cultural, political and social aspects of different countries.
CO10 Improve pronunciation skills by acquiring the knowledge of Organs of Speech, Vowel, Diphthongs, Consonants and Word Accent in detail.

## Subject Economics:

## Course Outcomes:

CO1 To provide the basic information about the basic economic, microeconomic theory and Indian economy.
CO2 To provide greater understanding about economic news and issues around the world.
CO3 Discuss the economic issues and problems facing by the India as well as world.
Co2 Explain the fundamentals of Macroeconomic variables (inflation, interest rates, consumption, saving, investment etc.) at national as well as global level.
Co3 To illustrate the macroeconomic problems, potential monetary and fiscal policy solutions.
Co1 Explain the fundamentals of money and banking with the students.

## Subject Physical Education:

## Course Outcomes:

Students will be able to understand:
CO1 The basics principles of health and wellness to develop an informed, personal approach to cogitative, physical, biological, sociological health.
CO2 Attain the physical fitness and performance as signify the knowledge of fitness concepts, principles and strategies.
CO3 Students get the understanding of measurements, rules, regulations, fundamental skills, specific skills, technique, officiating, demonstrate, equipment, materials about different games and event.
CO4 Students will understand the scientific behavior and sportsmanship in physical activities.

CO5 Explore the various concepts related to skillful movement, movement patterns, motor development and motor learning.
CO6 Student will learn a safe and successful fitness program for maintaining a physical fitness.

## Subject Public Administration:

### Course Outcomes:

Students will be able to understand:
CO1 To know the nature and scope of Public Administration.
CO2 To understand the changing paradigms of Public Administration.
CO3 To understand the administrative theories, approaches and concepts from multiple perspectives.
CO4 To explain and understand the various pillars of administration like President, Prime Minister, Chief Minister etc. as an executive pillar, Parliament, Assemblies etc. as a Legislative pillar and Supreme Court, High Court as a Judicial pillar.
CO5 To familiarize the process of Budget formulation and it presenting process in India.
CO6 To understand the way in which the public power is exercised and public resources are managed and expanded.
CO7 Acquaint with India's development experience and changing role of administration.
CO8 Need, role and type of corporatization of governmental activities.

## Subject Music Vocal:

### Course Outcomes:

CO1 Students will study about Indian Classical Music and its terms such as music, Naad, Swars, saptak, Taal and Laya.
CO2 Students will be able to know baisic Alankaras.
CO3 Students will be connected with Gurmat Sangeet.
CO4 They will GET knowledge about the various ragas as well as rhythms.
CO5 by studying this course detailed information about the historical background of music, the existence of music in different genres, such as music in Vedic, Ramayana and Mahabharata period, etc. is acquired by students.
CO6 Students will be trained in Sufi and folk music by various ragas.

## Subject Punjabi literature:

### Course Outcomes:

CO1 The subject of Punjabi literature enables students to understand literary forms, Punjabi culture and social problems.
CO2 Modern Punjabi poetry will be introduced to the students.
CO3 The definition, nature and elements of Geet, Ghazal, Nazam, Rubai, Blank verse, Novel, One Act Play and Poetry will be studied.
CO4 Indian critical theories will be taught to the students like Ras, Dhuni, Metaphor and Meter.
CO5 Literature is a subtle art whose main purpose is to produce taste and thereby inspire a good life.
CO6 The subject of Punjabi literature enables students to understand literary forms, Punjabi culture and social problems.
CO7 It will connect the students with various religions and traditions.

## Subject: Fashion Designing:

### Course Outcomes:

CO1 To provide fundamental knowledge of various tools and techniques of drafting and pattern making
CO2 To develop a design vocabulary as an essential tool for practicing as designers.
CO3 To acquaint the students with the basics of fashion illustration concepts and techniques
CO4 To acquaint students with the components and techniques used in garment construction.
CO5To enable students to obtain harmony between the pattern and design of the garment.
CO6 To make the students aware about glorious textile heritage and evolution of costumes in India since ancient times till date.
CO7 To impart knowledge on the fundamental knowledge of various tools and techniques of drafting and pattern making.
CO8To understand the importance and relevance of Indian costumes as an inspiration for design creations

## Subject: Maths:

### Course Outcomes:

After learning this subjects students will be able to:
CO 1: Understand the concept of derivatives and use it to find curvature.
CO 2: Understand and apply the concept of limit, continuity of a function at a point to find Concavity and convexity, Asymptotes and Tracing of curves.
CO 3: Exhibit and recall previous learning in integrals and use to study Improper integrals.
CO-4: Recognize various definitions of linear homogeneous and non-homogeneous differential equations.
CO-5: Understand various methods to solve second order linear differential equation with constant and variable coefficients
CO 6: Demonstrate their knowledge of geometry and its applications in the real world.
CO 7: Recognize consistent and inconsistent systems of linear equations by the row echelon form of the augmented matrix, using rank.
CO 8: Use the method of separation of variables and other techniques to solve some basic hyperbolic, parabolic and elliptic partial differential equations.
CO 9: Relate and integrate geometry into real life contexts as well as into other disciplines.

## Subject: PSYCHOLOGY:

### Course Outcomes:

After completing the course, the students will able to:
CO1. Understand the meaning of Psychology, its emergence, and relationship with science.
CO2. Explore the different methods to understand the human behaviour.
CO3. Understand the conditioning and types of conditioning, and its application to study the human behaviour.
CO4. Explore the role of reinforcement on learning and how it affects the behavior of individual
CO5. Explore connectivity of left and right hemisphere of brain in functioning of body.
CO6. To measure the I.Q and E.Q level of humans.

CO7. To understand the reason that why the things are not same for all individuals, the way one see the world is different for other seeing the world.
CO8. Explain the causes of anxiety based disorders and treatments for these disorders.

## Subject: Journalism and Mass Communication:

## Course Outcomes:

CO 1. This course is designed to equip the students with fundamentals of communication including definitions, meanings and purpose
CO 2. This course is focused at to make the students understand the elements, forms and Barriers of communication.
CO 3. The courses will make them understand the meaning and significance of mass communication in a democratic society and for a developing nation.
CO 4. The students will be able to get motivated and inspired by roles and contribution of prominent journalists, media organizations and the state
CO 5. The students will be able to understand the media, the construction of message and medium and can better relate with historical process of news writing and distribution.
CO 6. The course is designed to make them learn editing of News papers, books and other texts.
CO 7. The students will learn to attend press conferences, events, promotional and advertisement events and to cover them for broadcast journalism
CO 8. The students will be able to learn evolution and growth of media on global level and will be able to choose their area of specification.

## Subject: Journalism and Mass Communication:

## Course Outcomes:

After studying this course students will:
CO1. Develop professional skills in food, nutrition, textiles, housing and human development.
CO 2. Understand and appreciate the role of interdisciplinary sciences, the development and well being of individuals, the families and communities.
CO 3. Acquire professional and entrepreneurial skills for economic empowerment of self in particular and community.
CO 4. Understand the science and technology that enhance the quality of life of people.
CO 5. Bring science from laboratory to the people.

## Subject: Fine Arts:

## Course Outcomes:

After studying this course students will:

CO1. Formulate questions and responses clearly and precisely based on relevant information and research and to come to well reasoned conclusions and solutions. Students will develop the ability to think open-mindedly with the ability to consider alternative systems of thought that challenge received notions and social cultural bias.

CO2. Effectively express concepts in concrete form.

CO3. Skillfully create artistic form using techniques and methods appropriate to the intended result.

CO4. Understand that the meaning of a work of art is conditioned by the manner in which it is exhibited or otherwise presented and distributed. They will have the ability to consider methods of presentation and distribution in innovative ways that respond to, and potentially influence, existing conditions in the field.

CO5. Consider the role of art making in the larger social context.

CO6. Develop an awareness of current professional standards in their chosen media and in the larger field of contemporary art as well as the ability to effectively meet or redefine those standards. Recognizing that one aspect of being a professional artist is autonomy. Fine Arts Students will develop artistic autonomy to identify and focus on their practice, act upon their ideas and continue to learn over the length of their career.

## Subject: Hindi Literature:

## Course Outcomes:

After studying this course students will:

1. Develops a bonding with the National language of the student.
2. The student gets to know and understand Hindi language in a far better way.
3. The student gains the knowledge and understanding of the various intricacies of the grammar and literature of Hindi.
4. The student gains the knowledge and understanding of the rich folk and cultural heritage of India.
5. The individual gets to know of the unifying language and develops a reverence for it.
6. Knowledge of Hindi language helps them to think critically while studying Hindi literature. They are able to relate pleasure of literature and real life.

## Subject: Sanskrit:

## Course Outcomes:

Upon completion of this course students will have following opportunities and skills:

CO1.Students will be able to know not only ancient literature and their classification but also modern Sanskrit literature.
CO2. Through Gita they will be manage their cognition, emotive apparatus, confusion and conflict of mind.
CO3.They should general introduction of Indian Petrology and definitions and examples of various artharlankara.
CO4.The students would know about the historical importance of Indian Epigraphy, Paleography, Chronology and Inscription.
CO5. They will also know Nation and Nationalism through Sanskrit literature

CO6.Students would know about the Vedic mantras, their application, Vedic grammar, socio-cultural life.
CO7. Grammar is very important part of this language for the making of sentences, to know appropriate meaning of texts, oral communication and perfection.
CO8.Linguisticts should also help them to know the source of this language and the relation between other languages.
CO9.The students will take the knowledge about of Indian philosophy, Philosophers and their thoughts. They could relate the philosophical theory in practical life.

## Subject: Office Management and Secretarial practice:

## Course Outcomes:

Upon completion of this course students will:

CO1. Be versed with skills like Accountancy, Computer and Soft Skills.
CO2. They become well versed with the work culture of an office
CO3. Improve presentation skills, communicative skills and language based skills
CO4. Gain knowledge about the behavior of organization and people.
CO5. Get familiarized with the Corporate through Project Work.
CO6. Get first hand working experience through On-the-job training. Accountancy, Computer and Soft Skills. The interne ship training and the project work gives them first hand information about the organization.
CO7. Become able to work in teams with enhanced interpersonal skills and communication.

# Course Outcomes

# BCA-1st Year (1st SEM)

## General English-I:

**Course Outcomes:**

**CO I:** Generate their competence of both active and passive elements of the English language i.e., writing and speaking and listening and reading.

**CO II:** Deepen their understanding of accurate usage of English grammar in writing and speaking.

**CO III:** Enlarge their vocabulary by keeping a vocabulary lexicon.

**CO IV:** Learn to transform their native language into the target language.

**CO V:** Learn to write accurate English essays and letters.

**CO VI:** Enhance their confidence by having translation drills and through speaking English practice sections.

## BCA-112: Punjabi (Compulsory) :

**Course Outcome:**

**CO I.** In this semester students were introduced to the Pargat Singh Sidhu's novel 'bathakh de khamba jeh sphaid din' which a novel on dynamic life in collages.

**CO II.** This keeps the interest of students towards the various works of literature. All this help them to live life in a better way.

**CO III.** Apart from this the students were introduced to the nuances of

grammar like basic grammar information like sentences, noun sentences etc.

## BCA-113: Fundamentals of Information Technology :

Upon the completion of the course the learner will be able to :

**CO I:** Familiarization with the types of computer, peripheral devices, memory management, multimedia and number system.

**CO II**: Learn about working of various input and output devices.

**CO III:** Learnt about binary number representation along with its operations.

**CO IV:** Understand theoretical framework of internet and associated application of the internet.

**CO V:** Acquire the knowledge about the binary number representation along with its operations.

**CO VI:** Understand of the role of computers in business, education and society.

## BCA-114: Programming Fundamentals Using C:

After completion of this course, students will be able to:

**CO I**: Understand of various concepts of programming language.

**CO II**: Develop logics and analytical ability solve problem.

**CO III:** Learn about procedural programming using functions.

**CO IV:** Acquired various flow control statements.

**CO V:** Learn about various storage classes along with user defined data types.

**CO VI:** Acquire knowledge of file handling

**CO VII**: Work with arrays of complex structure data types.

**CO VIII:** Understanding a concept of functional hierarchical code organization.

# BCA 2nd SEM

## BCA-121: General English – II :

## COURSE OUTCOMES :

After completion of this course, students will be able to:

**CO I:** Enhance their competence in writing and speaking skills to the next level.

**CO II:** Make use of new lexical terms after going through verbs, adjectives and idioms.

**CO III:** Learn to write with the accurate use of Active and Passive voices after completing the taught exercises by the teacher.

**CO IV:** Start writing in the reported speech that usually confuses the learner. The conversion of Direct Speech to Indirect Speech will create crystal clarity to the learners.

**CO V:** Learn different type of sentences e.g. Affirmative, Negative, Interrogative, Assertive, Exclamatory and so on.

**CO VI**: The next level drills of the translation will help the students to create new complex sentences from their mother tongue to the target language.

**BCA-122: Punjabi (Compulsory)**

## COURSE OUTCOMES

After completion of this course, students will be able to:

**CO I**. In the 2nd semester of BCA-1st year, students have a prose book 'Chonwe Punjabi Nibandh' as part of their course.

**CO II.**This helps in intellectual and mental development of students and improving IQ of students.

**CO III.** Apart from this business letter writing is also introduced this semester which makes them capable for writing professionally in the future.

## BCA-123: Digital Electronics

## COURSE OUTCOMES

After completion of this course, students will be able to:

**CO I:** Acquire knowledge about Analog and Digital Systems and various digital logic gates.

**CO II:** Distinguish between various number systems and their conversions and computer arithmetic.

**CO III:** Develop K-Maps representation and simplification logic functions up to 4 variables.

**CO IV:** Understand, analyze and design various combinational and sequential circuits such as encoders, decoders and counters using multiplexers, and flip – flops.

**CO V:** Describe analog to digital and digital to analog conversion circuits.

## BCA-125: Basic Mathematics

## COURSE OUTCOMES

After completion of this course, students will be able to:

**CO I.** The student will be able to understand the foundations of mathematics.

**CO II..** The student will be able to perform basic computations in higher mathematics.

**CO III.** Able to read and understand middle-level proofs, to develop and maintain problem-solving skills.

**CO IV.** To learn to Use mathematical ideas to model real-world problems.

## BCA-124: Data and File Structures & BCA-126: Software Lab-III (based on BCA124)

## COURSE OUTCOMES

After completion of this course, students will be able to:

**CO I:** Be familiar with basic data structure and algorithms.

**CO II:** Design and analyze programming problem statements

**CO III:** Choose appropriate data structures and algorithms and use it to design algorithms for a specific problem.

**CO IV:** Handle operations like searching, insertion, deletion and traversing mechanism

**CO V:** Come up with analysis of efficiency and proofs of correctness

## BCA-127: Drug Abuse: Problem, Management and Prevention

## COURSE OUTCOMES

After completion of this course, students will be able to:

**CO I:** Understand the extent of the problem of Drug Abuse and its prevalence.

**CO II**: Differentiate Drug Abuse from Drug Dependence and Drug Addiction.

**CO III**: Gain conceptual understanding about Drug tolerance and examine the difference between Physical and Psychological dependence on drugs.

**CO IV**: Identify short and long term effects and withdrawal symptoms of drugs like stimulants, depressants: Alcohol, Barbiturates, Narcotics, hallucinogens, steroids and Inhalants.

**CO V:** Analyze the nature of the problem of Drug abuse by learning about vulnerable age groups, Physical, academic, behavioral and Psychological indicators.

**CO VI:** Evaluate the Physiological, Psychological and Sociological causes of drug abuse along with its consequences for individuals, families, society and the nation.

**CO VII:** Understand the overview of Management and Prevention of Drug Abuse by visiting a Drug De-addiction Centre. The students will also be able to assess the role of Family, School, Media, Legislation and De-addiction Centers in combating the menace of Drug Abuse

# BCA 2nd Year( 3RD SEM)

## BCA-211 English Communication Skills-1

**COURSE OUTCOMES**

At the end of the course, students will be able to...

**CO I:** Analyze and restate the meaning of a text in English

**CO II:** Demonstrate the skill to write in English without grammatical error

**CO III:** Practice listening effectively to communication in English

**CO IV:** Develop the ability to speak English language with the right way of pronunciation

**CO V:** Express the viewpoints with confidence in English

**CO VI:** Express values and skills gained through effective communication to other disciplines

**CO VII:** Compose articles and compositions in English

**CO VIII:** Discuss and socialize effectively in English

## BCA-212 Discrete Mathematics:

**COURSE OUTCOMES**

Students will be able to:

**CO I.**Write an argument using logical notation and determine if the argument is or is not valid.

**CO II.** Demonstrate the ability to write and evaluate a proof or outline the basic structure of and give examples of each proof technique described

**CO** 3. Understand the basic principles of sets and operations in sets.

**CO IV.** Prove basic set equalities.

**CO V.** Apply counting principles to determine probabilities.

**CO VI.** Demonstrate an understanding of relations and functions and be able to determine their properties.

**CO VII.** Determine when a function is 1-1 and "onto".

**CO VIII.** Demonstrate different traversal methods for trees and graphs.

**CO IX.** Model problems in Computer Science using graphs and trees.

## BCA-213 Computer System Organisation and Architecture

**COURSE OUTCOMES:**

**CO I.** Understand the theory and architecture of central processing unit.

**CO II.** Analyze some of the design issues in terms of speed, technology, cost, performance.

**CO III.** Design a simple CPU with applying the theory concepts.

**CO IV.** Use appropriate tools to design verify and test the CPU architecture.

**CO V.** Learn the concepts of parallel processing, pipelining and interprocessor communication.

**CO VI.** Understand the architecture and functionality of central processing unit.

**CO VII.** Exemplify in a better way the I/O and memory organization.

**CO VIII.** Define different number systems, binary addition and subtraction, 2's complement representation and operations with this representation.

## BCA-214 Object oriented programming using c++ and BCA -216 Software Lab-IV Object Oriented Programming using C++ lab:

**Course Outcomes (CO's):**

After completion of the course, students will able to:

**CO I:** Able to Understand OOPs Concept ,C++ language features. Able to Understanding and Applying various Datatypes, Operators,Conversions in program design.

**CO II:** Able to Understand and Apply the concepts of Classes &Objects,friend function , constructors &destructors in program design.

**CO III**: Able to Design & implement various forms of inheritance, String classs,calling base class constructors .

**CO IV:** Able to Apply & Analyze operator overloading, runtime polymorphism , Generic Programming.

**CO V:** Able to Analyze and explore various Stream classes, I/O operations and exception handling

**BCA-215 Fundamentals of Database Management system BCA-217 Software Lab-V(DBMS using MS Access Lab)**

**Course Outcomes:**

Upon successful completion of this course, students will be able to:

**CO 1**. Describe the fundamental elements of relational database management systems

**CO II**. Explain the basic concepts of relational data model, entity-relationship model, relational database design, relational algebra and SQL.

**CO III**. Design ER-models to represent simple database application scenarios

**CO IV**. Convert the ER-model to relational tables, populate relational database and formulate SQL queries on data.

**CO V.** Improve the database design by normalization.

**CO VI**. Familiar with basic database storage structures and access techniques: file and page organizations, indexing methods including B tree, and hashing.

**BCA -218 Environment and Road Safety Awareness:**

**Course Outcomes:**

After completion of this course, students will be able to:

**CO I**: Understand the structure and function of an ecosystem and ecosystem links between environmental components and their role.

**CO II:** Recognize the importance of environment and the sustainable of natural resources.
**CO III:** Use scientific reasoning to recognize and comprehend environment issues and evaluate potential solutions.
**CO IV:** Well versed with environmental protection laws in India.
**CO V:** Understand the concept and significance of Road safety.

## BCA-2nd Year(4th SEM)

### BCA-221 English Communication Skills-1

**COURSE OUTCOMES:**

**CO I.** Learning novels, plays and other genres of literature open up a world of fantasy, creativity and inspiration.
**CO II.** It also increases their comprehension skills.

**CO III.** Students will improve their speaking ability in English both in terms of fluency and comprehensibility.

### BCA-222 Computer Networks:

**COURSE OUTCOMES:**

**CO I.** Recognize the technological trends of Computer Networking.

**CO II**. Discuss the key technological components of the Network.

**CO III.** Computer Networks empower the students to learn about the practical concept of communication through layer oriented communication models (TCP/IP and OSI).

**CO IV.** Learn the concepts of the LAN, MAN and WAN. Also Students become able to understand the IP Addressing and sub netting as well as network security algorithms.

## BCA-223 Management Information System:

## Course Outcomes:

**CO I**. It will teach students about Management Information System (MIS).

**CO II.** Through this students will learn how to create systems for finding and storing data.

**CO III.** They learn about computer databases and network's security.

## BCA-224 Computer Oriented Numerical and Statistical Methods & BCA-226 Software Lab – VI (Computer Oriented Numerical and Statistical Methods Lab):

## Course Outcomes:

Students will:

**CO I.** Obtain an intuitive and working understanding of numerical methods for the basic problems of numerical analysis.

**CO II.** Gain experience in the implementation of numerical methods using a computer.

**CO I V.** Trace error in these methods and need to analyze and predict it.

Provide knowledge of various significant and fundamental concepts to inculcate in the students an adequate understanding of the application of Statistical Methods.

**CO V.** Demonstrate the concepts of numerical methods used for different applications

**CO VI.** Able to compute the mean and weighted mean and mode and median of raw data, discrete series (x, f), continuous series

**CO V II.** To compute the standard deviation and variance of different, coefficients, Bisection method, Regula-Falsi method, Secant method, Newton-Rapsons method, Gauss-Elimination method, Lagrange's Interpolation method, Newton-Interpolation method.

## BCA-225 Relational Database Management Systems with Oracle AND BCA-227 Software Lab – VII (Oracle Lab):

## Course Outcomes:

**CO I.** The student learn database system concepts and able to apply normalization to the database.

**CO II.** The student learn the basic processing and optimization techniques for high level query, different transaction processing concepts ,different concurrency control techniques and different types of databases such as object oriented and distributed databases.

**CO III.** The student able to identify different types of database failures and techniques to recover from such failures.

**CO IV.** The student will be able to create the Table, querying the record using order, group, multiple conditions by clauses.

**CO V.** Expert to create Synonyms, Sequences, Views, Indexes, triggers, cursors for procedures in structure query Language

# BCA 3rd Year( 5th SEM)

### BCA-311 English Literary Skills – I

## Course Outcomes:

**CO I.** English has the specific status forever all language of the world is essential every sphere of life expectably the play in the fifth semester.

**CO II**. 'All My Sons' focuses on the story of the businessman.

**CO III.** This play gives the message to the audience that all are my sons play is not always accompanied by smiles and laughter.

**CO IV.** It can also create mental tension or anxieties essay is also main part of writing skills.

### BCA-312 System Analysis and Design

## Course Outcomes:

**CO I.** Expert to understand the major components of a computer including CPU, memory, I/O and storage.
**CO II.** Students will understand the uses for cache memory, a wide variety of memory technologies both internal and external.
**CO III.** Understand the role of the operating system in interfacing with the computer hardware.
**CO IV.** Understand the basic components of the CPU including the ALU and control unit.

**BCA-313 System Software**

## Course Outcomes:

After completion of this course, students will be able to:
**CO-I:** Learn and understand the System at the level of the operating system that is System software.
**CO-II**: Understand System in terms of the processors, loaders and linkers.
**CO-III:** Learn the working of Compilers as well as their construction and use.
**CO-IV:** Knowledge of various software tools like program developers, editors, debuggers and user interfaces.

**BCA-314 Java Programming AND BCA-316 Software Lab – IX (based on paper BCA-314: Java Programming:**

## Course Outcomes:

After learning this course students will:

**CO I.** expert to know the model of object oriented programming and fundamental features of an object oriented language.
**CO II.** Learn to how to test, document and prepare a professional looking package for each business project.
**CO III**. Student has the ability to write a computer program to solve specified problems.

**CO IV**. Learn to use the Java SDK environment to create, debug and run simple Java programs.
**CO V.** Student will be able to explain and develop programs for inheritance, multithreading, applets, exception handling and file handling.
**CO VI.** The student will learn to construct the program with basic concept of Java such as operators.
**CO VII.** The student will be able to compile, debug and run the program. It will also learn to create package, interface etc.

**BCA- 315 Web Designing using HTML and DHTML AND BCA-317 Software Lab – X (based on paper BCA-315: Web Designing using HTML and DHTML**):

## Course Outcomes:

**CO I.** Learn to build basic of the web designing using Markup language.
**CO II.** Understand the fundamental tags to easily grab the advance web programming languages.
**CO III.** Student become able to design, publish and retrieve the data in the databases.
**CO IV.** CSS style sheets and basic of server side programming.
**CO V.** Learn to build basic of the web designing using Markup Language.
**CO VI.** Understand the fundamental tags to easily grab the advance web programming languages.
**CO VII**. Student become able to design, publish and retrieve the data in the databases.
**CO VIII.** CSS style sheets and basic of server side programming.

**BCA-318 Punjabi (Compulsory) :**

## Course Outcomes:

**CO I.** The main purpose of teaching Punjabi as a compulsory subject in Part-III is to acquaint the students with the Punjabi language.
**CO II.** The role of folklore is read in the book to make them aware of the distinctive features of Punjabi folklore.

**CO III.** Noun phrases and verb phrases are analyzed by identifying the context of the Punjabi language.

**BCA-3rd Year (6th SEM)**

**BCA-321 English Literary Skills – II:**

## Course Outcomes:

After completion of this course, students will be able to:

**CO I:** Gain not only innate insight of human behavior but also the terms of drama by reading Short Plays book.

**CO II:** By learning new words referring to death, war, science and nature, the students will have supplementary knowledge of material and nature elements.

**CO III:** The grammar book will create accuracy and precision in students' writings and conversation.

**CO IV:** Bring the students to a new advanced level of learning the English language.

**CO V:** The prescribed figure of speech i.e. verbs, adjectives and adverbs will make the students more polished in determining proper words for usage.

**BCA-322 E-Commerce:**

## Course Outcomes:

Upon completion of the course students should be able to:

**CO I.** Analyze the impact of E-commerce on business models and strategy.
**CO II.** Describe the major types of E-commerce.
**CO III.** Explain the process that should be followed in building an E-commerce presence.
**CO IV.** Identify the key security threats in the E-commerce environment.

**CO V.** Describe how procurement and supply chains relate to B2B E-commerce.

**BCA-323 Operating Systems:**

## Course Outcomes:

At the end of the course the student will be able to :

**CO 1:** Differentiate between multiprocessing, multiprogramming, and multitasking.

**CO II:** Differentiate between programs, processes and threads.15

**CO III:** Learn the mechanisms involved in memory management in contemporary OS.

**CO IV:** Gain knowledge on distributed operating system concepts that includes architecture, deadlock detection algorithms and agreement protocols.

**CO V:** Understand different approaches to memory management.

**CO IV:** Compare file naming in Linux and Windows

## BCA-324 Software Engineering:

## Course Outcomes:

On completion of this course, the students will be able to:

**CO I:** Understand the basic concepts, models, life cycle of software development.

**CO-II:** Learn higher level concepts like Re-engineering, Reverse Engineering, Forward Engineering, and CASE tools.

**CO-III:** Knowledge of all the steps of software engineering and their use and implementation in real problems

**CO-IV:** Understanding of programming language and using it to develop software using all stages of software development.

## BCA-325 Web Designing using ASP.NET & BCA-327 Software Lab – XII (based on BCA-325: Web Designing using ASP.NET):

## Course Outcomes:

After completion of this course, students will be able to:

**CO-I**: Write, compile and debug programs using ASP.NET language.

**CO-II**: Knowledge and Use of different data types, operators, loops and other control structures in web programming.

**CO-III**: Design programs accepting user inputs and various other standard controls.

**CO-IV**: Understand the implementation of arrays, and events.

**CO-V**: Comprehend the concepts of classes and objects: declaration, initialization and implementation.

**CO-VI**: Apply the various rich web features like file uploads, debugging, caching and deploying ASP.NET pages et cetera.

**CO-VII**: Understand and learn the concepts related with ASP.NET security, localizing ASP.NET applications.

**CO-VIII**: Ability to develop programs to implement and use all the above specified concepts and features in programming.

## BCA-326 Software Lab – XI (More on Java based on BCA314: Java Programming):

## Course Outcomes:

After completion of this course, students will be able to:

**CO-I**: Understand the basic concepts related with the development of software.

**CO-II**: Ability to develop software both at simple level as well as complex level.

**CO-III**: Understand various models for software development.

**CO-IV**: Understand the life cycle of a software.

**CO-V**: Learn higher level concepts like Re-engineering; Reverse Engineering, Forward Engineering, CASE tools.

**CO-VI**: Knowledge of all the steps of software engineering and their use and implementation in real problems

**CO-VII**: Understanding of programming language and using it to develop software using all stages of software development.

## BCA-328 Punjabi (Compulsory) or Punjabi Compulsory (Mudla Gyan) :

## Course Outcomes:

After learning this course students will:

**CO I**: Write with competency with a critical and creative insight.

**CO-II**: The taught prescribed literature book Prose Parable will be an insightful source for the students that will help them in understanding social and moral philosophy.

**CO-III:** Start forming new dialogues with the given paragraphs that will give them new dimensions to their foresight and creativity

**CO-IV**: Write and speak with accuracy and precision after going through the exercises of error in the sentences.

**Course Outcomes (COs)**

# BBA FIRST YEAR

| BBA FIRST SEMESTER | |
|---|---|
| BBA-101 | Communication Skills in Punjabi/ Elementary Punjabi |
| BBA-102 | Business Economics-I |
| BBA-103 | Business Mathematics |
| BBA-104 | Business Organization and Management Principles-I |
| BBA-105 | Workshop on Computer Applications |
| BBA-106 | Seminar |

| BBA SECOND SEMESTER | |
|---|---|
| BBA-201 | Communication Skills in Punjabi/ Elementary Punjabi |
| BBA-202 | Communication Skills in English |
| BBA-203 | Business Economics-II |
| BBA-204 | Business Statistics |
| BBA-205 | Business Organization and Management Principles-II |
| BBA-206 | Workshop on Internet & E-Commerce |
| BBA-207 | Seminar |
| BBA-208 | Viva-Voce |

**Class: BBA-I, Semester- I**

1. **BBA-101 Communication Skills in Punjabi**

**After completing this course, the students will be able to*:***

CO.1. ਭਾਸ਼ਾਈ ਸੰਰਚਨਾ ਦੇ ਨੇਮਾਂ ਨੂੰ ਸਮਝ ਕੇ ਉਸਦੀ ਵਰਤੋਂ ਰੋਜ਼ਾਨਾ ਜ਼ਿੰਦਗੀ ਜ਼ਵਿੱਚ

ਕਰਨਾ CO.2. ਭਾਸ਼ਾ ਦੇ ਜਰੀਏ ਮਨੁੱਖੀ ਭਾਵਾਂ ਨੂੰ ਸਮਝ ਕੇ ਸਮਾਜ ਦਾ ਜ਼ਵਸ਼ਲੇਸ਼ਣ

ਕਰਨ ਦੇ ਯੋਗ ਹੋਣਾ CO.3. ਗ_ਰਮ_ਖੀ ਜ਼ਲਪੀ ਦੇ ਭਾਸ਼ਾਈ ਜ਼ਵਕਾਸ ਦੇ ਜ਼ਵਜ਼ਭੰਨ ਪੜਾਵਾਂ ਨ

ੂੰ ਸਮਝਣ ਦੀ ਚੇਤਨਾ CO.4. ਮਨੁੱਖੀ ਹੋਂਦ ਦੇ ਸੰਕਟਾਂ ਦੀ ਜ਼ਨਸ਼ਾਨਦੇਹੀ ਅਤੇ

ਉਹਨਾਂ ਦਾ ਯੋਗ ਹਿੱਲ ਲਿੱਭਣਾ

CO.5. ਸਾਜ਼ਹਤਕ ਰਚਨਾਵਾਂ ਦੇ ਮਾਧ>ਅਮ ਨਾਲ ਜ਼ਵਜ਼ਦਆਰਥੀਆਂ ਅੰਦਰ ਸਾਜ਼ਹਤਕ ਰ_ਚੀਆਂ ਦਾ ਜ਼ਵਕਾਸ ਹੋਵੇਗਾ

2. **BBA-102 Business Economics-I**

**After completing this course, the students will be able to*:***

CO.1. Explain the basic concepts of microeconomics and issues in business economics

CO.2. Discussing the consumer equilibrium, utility analysis indifference curve and the demand and supply analysis.

CO.3. Examine the production and cost structure under different stages of production.

CO.4. Indentify how and why equilibrium prices might change and their impact on resource allocation;

CO.5. Recommending the pricing and output decisions under various market structure.

**3. BBA-103 Business Mathematics**

**After completing this course, the students will be able to*:***

CO.1. State the mathematical skills which are required in business.

CO.2. Discuss various mathematical applications in Finance and Marketing etc.

CO.3. Solve problems of Resource allocation by applying tools of Linear Programming, Transportation and Assignment problems.

CO.4. Examine various business solutions by applications of Game theory problems.

CO.5. Students will be able to judge the reasonableness of obtained solutions.

**4. BBA-104 Business Organization and Management Principles-I**

**After completing this course, the students will be able to*:***

CO.1. Describing the Nature and Scope of Business, Forms of Business Organizations and Formation of a Company .

CO.2. Comparing Sole Trading Concerns, Partnership, Joint Stock Company, Co-operative Societies, Government and Business, Public Enterprise, Small Business.

CO.3. Examine the Functions of Management, Business Ethics, and Social Responsibility of Business.

CO.4. Interpret the interactions between the environment, technology, human resources, and organizations in order to achieve high performance.

CO.5. Examine the effectiveness of applications of management concepts.

CO.6. Appraise different types, roles and styles of managers across organizations.

**5. BBA-105: Workshop o**n **Computer Applications in Business**

**After completing this course, the students will be able to*:***

CO.1. Describing the Definition, Features and Classification of computers, Concept of OS, Introduction to Windows.

CO.2. Explaining Difference between Hardware and Software. Types of Software System. Software and Application Software, Interpreter.

CO.3. Assessing MS-Word, MS-Excel and MS-PowerPoint

CO.4. Outline the steps for creating Creating, Saving, Opening, Importing, Exporting and Inserting Files. Formatting Pages, Paragraphs and Sections

CO.5. Use the various command for Auto Content Wizard. Creating Design Template on Blank Presentation. Slides Sorter View. Inserting Slides from Other Presentation. Inserting Pictures & Graphics. Slide Show, Printing Slides

6. **BBA 106- Seminar**

**After completing this course, the students will be able to*:***

CO.1. List the important events of the year in area of General, Social, Economic and Business Awareness
CO.2. Describe the business concepts and theories to real-world decision-making
CO.3. Illustrate business skills in communication, technology, quantitative reasoning, and teamwork.
CO.4. Compare and Contrast different business operations.

**Class: BBA-I, Semester- II**

**1. BBA-201 Communication Skills in Punjabi**

CO.1. ਰ ਪਾਕਾਰ ਸ਼ਨਬੰਿ ਰਾਹੀਂ ਸ਼ਿੰਦੇਗੀ ਦੀਆਂ ਤਲਖ਼ ਹਕੀਕਤਾ◌ਂ ਸਮਝਣ ਦੇ ਯੋਗ ਹੋਣਾ

CO.2. ਵਪਾਰਕ ਪਿੱਤਰ ਜ਼ਵਹਾਰ ਰਾਹੀਂ ਵਪਾਰਕ ਪਿੱਿਰ 'ਤੇ ਸਮਰਿੱਥ ਹੋਣਾ

CO.3. ਭਾਸ਼ਾ ਦੇ ਜ਼ਵਜ਼ਭੰਨ ਰ ਪਾ◌ਂ ਨ◌ੰ ਸਮਝ ਕੇ ਸਮਾਜ ਜ਼ਵਿੱਚ ਪਰਭਾਵਸ਼ਾਲੀ ਰ ਪ ਜ਼ਵਿੱਚ ਸ਼ਵਚਰਨ ਦੀ ਯੋਗਤਾ

CO.4. ਭਾਸ਼ਾ ਦੀ ਸਮਰਿੱਥਾ ਪਛਾਣ ਕੇ ਅੰਦਰਲੀ ਯੋਗਤਾ ਦਾ ਸਹੀ ਪਰਯੋਗ ਕਰਨਾ

CO.5. ਸਾਜ਼ਹਤਕ ਰਚਨਾਵਾ◌ਂ ਦੇ ਮ◌ਾਿ>ਅਮ ਨਾਲ ਸ਼ਵਜ਼ਦਆਰਥ◌ੀਆ◌ਂ ਅੰਦਰ ਸਾਜ਼ਹਤਕ ਰ_ਚੀਆਂ ਦਾ ਸ਼ਵਕ◌ਾਸ ਹੋਵੇਗਾ

**2. BBA-202 Communication Skills in English**

CO.1. Describing the Imaginative Use of Parts of Speech. How to Plan Paragraph Writing. How to Change Direct into Indirect Speech and Vice Versa.
CO.2. Explaining Sentence Connectors and Cohesion. Substitution and Ellipsis. Sentence variation and Rewriting of Sentences.
CO.3. Uses of Imaginative Features. Idioms and Phrases. Letter writing Précis and Comprehension, Paraphrasing and Expansion
CO.4. Identifying the Fundamentals of Broadcasting. Radio as a Communication of Broadcasting. Radio as a Communication of Broadcasting TV Network in India and Education TV- Current Affairs and General Knowledge.

**3. BBA-203 Business Economics-II**

CO.1. Listing elements and characteristics define the business economics, distinguishing two basic types: macro and micro.
CO.2. Outline the process of calculating national income, identify its components, analyse the various income identities with government and international trade.
CO.3. Discussing Say's law of market, classical theory of employment and Keynes objection to the classical theory; demonstrate the principle of effective demand and income determination
CO.4. Comparing the National Income of various countries.
CO.5. Recommend the relationship between investment and savings, demonstrate investment multiplier, and understand the meaning of MEC and MEI.

**4. BBA-204 Business Statistics**

CO.1.State the basic concepts of Statistics such as collection of data, presentation of data.
CO.2.Classify the various types of data based on its nature.
CO.3.Calculate Measures of Central Tendency, Dispersion, Correlation and Regression analysis.

CO.4. Analyze time series and its trend including seasonal indices.

CO.5. Judge the level of price changes using Index Numbers.

CO.6. Plan and forecast the demand and sales of companies or industries using tools like Regression, Interpolation and Extrapolation.

**5. BBA-205 Business Organization and Management Principles-II**

CO.1. Define the role of individual employee in the organization.

CO.2. Understand fundamental concepts and principles of management, including the basic roles, skills, and functions of management.

CO.3. Use the interactions between the environment, technology, human resources, and organizations in order to achieve high performance.

CO.4. Correlate realistic and practical applications of management concepts.

CO.5. Appraise the roles and styles of managers across organizations

**6. BBA- 206: Workshops on Internet and E-Commerce**

**After completing this course, the students will be able to*:***

CO.1. Writing the Define Electronic Commerce, Brief History of Electronic Commerce, Forces Fuelling Electronic Commerce-Electronic Forces.

CO.2. Predicting Marketing and Customer Interaction Forces. Technology and Digital Convergence, Implications of Various Forces, Types of Electronic Commerce.

CO.3. Examine the Inter-Organizational Electronic Commerce, Intra-organizational Electronic Commerce, Consumer to Business Electronic Commerce, Intermediaries and Electronic Commerce.

CO.4. Illustrate the Firewalls and Network Security – Types of Firewalls, Firewall Security Policies, emerging Firewall Management Issues.

CO.5. Assessing Electronic Payment Technology, Online Shopping, Limitations of Traditional Payment Instruments, Electronic or Digital Cash- Properties of Electronic Cash, Digital Cash in Action,

CO.6. Recommending the Emerging Financial Instruments-Debit Cards at Point of Sale. (POS), Debit Cards and Electronic Transfer Benefit , Smart Cards, Consumer's Legal and Business Issues.

**7. BBA-207 Seminar**

**After completing this course, the students will be able to*:***

CO.1. Demonstrate confidence in their activities

CO.2. Develop effective communication skills

CO.3. Demonstrate strong abilities of working in teams

CO.4. Identify strategies to adapt to different situations

**CO.5.** Design and deliver effective presentations

# BBA SECOND YEAR

## BBA 3rd SEMESTER

| | |
|---|---|
| BBA-303 | PRINCIPLE OF MARKETING MANAGEMENT |
| BBA-304 | BUSINESS LAWS |
| BBA-305 | WORKSHOP ON CONTEMPORARY BUSINESS ISSUES |
| BBA-306 | SEMINAR ON KNOWLEDGE MANAGEMENT |
| BBA-307 | COMMUNICATION SKILLS IN PUNJABI/ELEMENTARY PUNJABI |

## BBA 4th SEMESTER

| | |
|---|---|
| BBA-401 | FINANCIAL MANAGEMENT |
| BBA-402 | WORKSHOP ON CREATIVITY & |
| BBA-403 | SEMINAR ON ENTREPRENEURSHIP |
| BBA-404 | VIVA-VOCE |
| | **MARKETING MANAGEMENT** |
| BBA-406 | ADVERTISEMENT & SALES MANAGEMENT |
| | **FINANCE** |
| BBA-412 | FINANCIAL INSTRUMENTS |
| BBA-411 | COST AND MANGEMENT ACCOUNTS |
| BBA-423 | COMMUNICATION SKILLS IN PUNJABI/ ELEMENTARY PUNJABI |
| BBA-424 | ENVIRONMENTAL STUDIES AND ROAD SAFETY |

I

SUMMER INTERNSHIP : INDUSTRIAL TRAINING OF · 4 TO 6 WEEKS

**Class: BBA-II, Semester- III**

**1. BBA-301 Principles of Human Resource Management**

**After completing this course, the students will be able to*:***

CO.1. Describe the basic concepts, functions and processes of human resource management.

CO.2. Explain the role, functions and functioning of human resource department of the organizations.

CO.3. Solve various HR issues using necessary skill set studied in HRM.

CO.4. To Identify and formulate various HRM processes such as Recruitment, Selection, Training, Development, Performance appraisals and Compensation Plans.

CO.5. To recommend the knowledge of HR concepts to take correct business decisions.

CO.6. Construct various policies for effective use of human in the organisation.

**2. BBA-302 Business Accounting**

**After completing this course, the students will be able to*:***

CO.1. Listing conceptual knowledge of recording the business information in books of accounts.

CO.2. Report the results of business using financial statements.

CO.3. Interpret the results of business for business decision making.

CO.4. Comparing results of business using Inter-firm and Intra-firm analysis..

CO.5. Assess the result of various accounting policies on accounting profits.

CO.6. Design accounting information system for a small business unit.

**3. BBA-303 Principles of Marketing Management**

**After completing this course, the students will be able to*:***

CO.1. Listing the foundation terms, concepts and principles of marketing.

CO.2. Classifying the marketing environment and learn how to cope with changing marketing forces.

CO.3. Use the various essential tools and techniques for effective marketing practice.

CO.4. Examine relationship between marketing and other management functions.

CO.5. Illustrate various marketing decision related to product, price, place and promotions.

CO.6. Recommending the various marketing strategies for Service Marketing, Rural marketing, Marketing Research, Advertisement and Sales Management etc.

**4. BBA 304:- Business Laws**

**After completing this course, the students will be able to*:***

CO.1. Describing the nature of Contract Act 1872, capacity of parties, performance, discharge and remedies for breach of contract.

CO.2. Compare the types of contract, rights and obligation of the parties to the contract, types of negotiable instruments and three forms of grievance redressed machinery.

CO.3. Identify the salient features of consumer protection Act 1986

CO.4. Categorize the different types of cheque, holder and holder in due course.

CO.5. Recommendation for Dishonour and discharge of negotiable instruments

**5. BBA-305 Workshop on Contemporary Business Issues**

**After completing this course, the students will be able to*:***

CO.1. Describing the domestic and international dimensions of the business environment

CO.2. Listing the corporate social responsibility, performance, socialization and moral development.

CO.3. Classification of values, congruence and conflicts related to values

CO.4. Identifying the corporate ethics and ethical dimensions of public affairs

CO.5. Assessing the crisis management, social performance of corporate.

**6. BBA-306 Seminar on Knowledge Management**

**After completing this course, the students will be able to*:***

CO.1. Enhancing the knowledge related to economy, leveraging economy.

CO.2. Outline the transformation of a enterprise through knowledge management.

CO.3. Illustrate of creating, sharing and momentum of knowledge,

CO.4. Examine the organization culture for knowledge management, and challenges.

7. **BBA-307 COMMUNICATION SKILLS IN PUNJABI**

**After completing this course, the students will be able to*:***

CO.1. ਵਿਵਿਆਰਥੀਆਂ ਨੂੰ ਗੌਰਿਮਈ ਇਿਵਹਾਸ ਿਾ ਵਗਆਨ ਹੋਿੇਗਾ

CO.2. ਸਾਵਹਿਕ ਰਪਾਕਾਰ ਨਾਿਲ ਰਾਹੀ ਂਵ ਿੂ ਂਿੰਗੀ ਿੀ ਵਿ ੰਲਾ ਨੂੰ ਸਮਝਣ ਿੀ ਯੋਗਿਾ ਿਾ ਵਿਕਾਸ

CO.3. ਿਾਕ ਬਣਿਰ ਿੇ ਵਗਆਨ ਰਾਹੀ ਂਵਿਵਿਆਰਥੀ ਆਪਣੇ ਭਾਿਾ ਂ ਿਾ ਸੂੰਚਾਰ ਸੁਚੱਜੇ ਢੂੰਗ ਨਾਲ ਕਰ ਸਕਣਗੇ

CO.4. ਿਪਾਰਕ ਅਿਾਵਰਆਂ ਵਿਚ ਿਫ਼ਿਰੀ ਕੂੰਮਕਾਜ ਵਿਚ ਿਿਰੀ ਜਾਂਿੀ ਰਾਜ ਭਾ ੰਪੂੰਜਾਬੀ ਿੀ ਿਕਨੀਕੀ ਜਾਣਕਾਰੀ ਰਾਹੀ

ਰ ਿੂ ਰ ਸੂੰਭਾਿਨਾਿਾਰ ਵਿਚ ਿਾਧਾ

CO.5. ਸਾਵਹਿਕ ਰਪਾਂ ਿੀ ਵਸਧਾਂਿਕ ਸਮਝ ਿੇ ਨਾਲ ਉਹ ਿੱਖ ਿੱਖ ਸਾਵਹਿ ਰਪਾਂ ਵਿਚ ਸਾਵਹਿ ਰਚਣ ਿੇ ਯੋਗ ਹੋਣਗੇ

CO.6. ਸਾਵਹਿਕਾਰ ਿੇ ਜੀਿਨ ਸਫ਼ਰ ਿਾ ਵਗਆਨ ਵਿਵਿਆਰਥੀਆਂ ਨੂੰ ਰਚਨਾਕਾਰ ਿੇ ਸਾਵਹਿਕ ਰਿ ੰਿੈਣ ਨੂੰ ਸਮਝਣ ਵਿਚ ਸਹਾਈ ਹੋਿੇਗਾ

**<u>Class: BBA-II, Semester- IV</u>**

1. **BBA-401 Financial Management**

**After completing this course, the students will be able to*:***

CO.1. Listing the aim, scope and significance of finance function, sources of company finance.

CO.2. Discussion of theories and valuation of capital structure, cost of capital and capital budgeting

CO.3. Assessing the SEBI guidelines for raising company finance.

CO.4. Recommend the working capital requirement, steps in responsibility accounting

CO.5. Illustrating the planning of capital expenditure and its evaluation including risk and uncertainty.

2. **BBA-402 Workshop on Creativity & Innovation**

**After completing this course, the students will be able to*:***

CO.1. Discussing the creativity in management, theories of creativity, role of computers in creativity.

CO.2. Illustrate the brainstorming, lateral thinking, synaptic idea generating methods

CO.3. Assessing the need of market research, sources of ideas, and financial sources.

CO.4. Examine the case-histories of renowned companies

3. **BBA-403 Seminar on Entrepreneurship**

**After completing this course, the students will be able to*:***

CO.1. Describing the nature, characteristics, theories of entrepreneurship, role of government in setting of enterprises

CO.2. Compare the class of entrepreneurship including women entrepreneurship, along with

the socio economic environment and entrepreneurial behaviour.

CO.3. Assess the contribution of commercial banks in promoting and servicing small business, government polices and formalities in setting up a unit.

CO.4. Indentify the basic requirements regarding registration, excise, sales tax and factory Act and SSI exemptions.

**4. BBA-406 Advertisement & Sales Management**

**After completing this course, the students will be able to*:***

CO.1. List the nature and scope of advertising research, campaign planning strategic, sales management

CO.2. Outline the knowledge about consumer behaviour, recruitment and selection process , training and development of sales personnel

CO.3. Compare media planning of print, T.V, Radio, Cable and satellites, direct mail marketing

CO.4. Discussing the creation of copy-testing, advertising budget.

CO.5. Illustrating Event management , advertising agencies and assessing the advertising effectiveness, performance of sales personnel

CO.6. Planning a Carving territories, routing and scheduling, sales quotas

CO.7. Examine the selling theories and process sales ethics and distribution.

**5. BBA-407: Marketing Of Services**

**After completing this course, the students will be able to*:***

CO.1. Describe the concept of goods and services, services marketing concept, features.

CO.2. List the need, significance of behavioural services aspiration.

CO.3. Outline the marketing segmentation, marketing information system for various services.

CO.4. Restate the meaning of service quality, its components and measurement

CO.5. Investigate the Seven'P of service marketing and its management.

CO.6. Assess the services marketing in Banking, hotel, tourism, transport, personal care, hospital, education and consultancy marketing

**6. BBA-412: Financial Instruments & Services**

**After completing this course, the students will be able to*:***

CO.1. Describe the financial market environment in India along with the role of securities and exchange board of India

CO.2. Outline the objectives and functioning of stock exchange

CO.3. Compare the variable and fixed interest bearing securities including equity and preference shares, debentures, bonds ADR and GDR.

CO.4. Examine the role of Merchant Banking, Venture capital, Leasing and hire purchase and mutual fund in financial market.

CO.5. Compare and contrast the debit card and credit card, housing finance and foreign direct investment in India.

**7 BBA -411 : COST AND MANAGEMENT ACCOUNTS**

**CO1:** Apply management accounting and its objectives in facilitating decision making.

**CO2:** Give proper idea on financial statement analysis from practical point of view.

**CO3:** Prepare Cash Flow and Funds Flow statements this helps them in planning for intermediate and long-term finances.

**CO4:** acquire in depth indulgent of cost accounting principles for identification, analysis and interpretation of cost components and ascertainment using various costing methods and

procedures.

**CO5:** understand the basic structure of cost accounting and cost related concepts, preparation of cost sheet along with elements of cost, analyse and evaluate information related to material, labour and overhead costs.

**CO6:** develop ability to understand and calculate the cost through FIFO, LIFO and Average Method, cost determination through apportionment and absorption of overheads, over valuation and under valuation of overheads

## BBA THIRD YEAR

## BBA 5TH SEMESTER

| | |
|---|---|
| BBA-500 | COMMUNICATION SKILLS IN PUNJABI |
| BBA-500A | ELEMENTARY PUNJABI |
| BBA-501 | BUSINESS RESEARCH METHODS |
| BBA-502 | WORKSHOP ON TIME AND WORKLOAD MANAGEMENT |
| BBA-503 | SEMINAR ON SUMMER INERNSHIP |

**CHOOSE ANY THREE SUBJECTS FROM NOT MORE THAN TWO FUNCTIONAL AREAS**

**MARKETING MANAGEMENT**
BBA-505 RURAL MARKETING

**FINANCE**
BBA-510 STOCK MARKET OPERATIONS
BBA-511 INSURANCE MANAGEMENT

## BBA 6TH SEMESTER

| | |
|---|---|
| BBA-601 | INDUSTRIAL TRAINING PROJECT |
| BBA-602 | PROJECT REPORT |
| BBA-603 | SEMINAR ON THE PROJECT REPORT |
| BBA-604 | VIVA-VOCE |

**Class: BBA-III, Semester- V**

**1. BBA-500: Communication Skills in Punjabi**
**After completing this course, the students will be able to:**

CO.1. ਵਿਵਿਆਰਥੀਆਂ ਅੰਿਰ ਸਾਵਹਰਿ ਿੇ ਪਿਯੋਜਨ ਿੇ ਿਂੋਿਾ ਿੀ ਜਾਣਕਾਰੀ ਵਸਰਜਣਾਿਮਕ ਰਚੀਆਂ ਿਾ ਵਿਕਾਸ ਕਰੇਗੀ

CO.2. ਸਾਵਹਿਕ ਰਪਾਕਾਰ ਨਾਿਲ ਰਾਹੀ ਂ ਵਏੂਂਿਗੀ ਿੀ ਵਿੋਲਿਾ ਅਿੇ ਮਨੱ ੁਖੀ ਅਸਵਿਿਿ ਿੇ ਸਮਕਾਲੀ ਅਿੇ ਵਚਰਕਾਲੀ ਸੰੁਕਟਾਂ ਨੂੰ ਸਮਝਣ ਿੀ ਯੋਗਿਾ ਿਾ ਵਿਕਾਸ

CO.3. ਨਾਿਲ ਰਪਾਕਾਰ ਰਾਹੀ ੂਂਜੀਿਨ ਸਰੋਕਾਰਾਂ ਿੀ ਪੇਰ੍ਕਾਰੀ ਵਿਵਿਆਰਥੀਆਂ ਅੰਿਰ ਮਾਨਿੀ ਸੰੁਿੇਿਨਾ ਨੂੰ ਜਗਾਏਗੀ CO.4. ਪੰੁਜਾਬੀ ਭਾਰ੍ਾ ਿੇ ਵਸਯਾਂਿਕ ਸੰੁਕਲਪਾਂ ਿੀ ਜਾਣਕਾਰੀ ਿਾਹਰਕ ਭਾਰ੍ਾ ਿੇ ਸੰੁਗਠਨ ਨੂੰ ਸਮਝਣ ਵਿਚ ਸਹਾਈ ਹੋਿੇਗਾ CO.5. ਵਿਵਭੰੁਨ ਸਮਾਵਜਕ ਸਵਭਆਚਰਕ ਿੇ ਿਾਿਾਿਰਨਕ ਵਿਵਰ੍ਆਂ ਿਾ ਵਗਆਨ ਮੁਕਾਬਲੇ ਿੀਆਂ ਪਿੀਵਖਆਿਾਂ ਵਿਚ ਸਹਾਇਿਕ

**2. BBA-501: Business Research Methods**

**After completing this course, the students will be able to*:***

CO.1. Describe the Meaning, Objectives and Process of Research, Research Methods in Social Sciences, Exploratory, Descriptive and Experimental Research.

CO.2. Outline the Applications and Limitations of Research Methods and Sampling Design

CO.3. Explain Techniques for Data Collection; Primary and Secondary Sources, Primary Sources-Consumers and Trade Survey, Including Consumer Panels and Retail Auditing.

CO.4. Recommend the Qualitative Techniques of Data-Collection and application including questionnaire Designing and protesting.

CO.5. Assess difficulties in Measurement and Concepts of Validity and Reliability; Attitude Measurement General Methods; Scaling Techniques: Thurston, Likert, and Semantic Differentials

CO.6. Construct Report Writing and Presentation

**3. Bba-502: Workshop on Time and Workload Management**
**After completing this course, the students will be able to*:***

CO.1. Relates with the Psychology of Time; Time as Finite Capital;

CO.2. Discuss the Developing the Right Attitude of Mind; Your Current Use of Mind; You and Your Tasks; You and Yourself

CO.3. Identifying Self Objectives and Their Methodologies for Completion; Your and Others. Task Management

CO.4. Recommend Workload Management Systems; Managing Interruptions; Delegation; Managing Meetings; Working with a Secretary; Managing Stress; and Balancing Work and Home.

**4. Bba-503: Seminar on Summer Internship**
**After completing this course, the students will be able to:**

CO.1. Demonstrate confidence in their activities

CO.2. Develop effective communication skills

CO.3. Demonstrate strong abilities of working in teams

CO.4. Identify strategies to adapt to different situations

**CO.5.** Design and deliver effective presentations

**5. Bba-505: Rural Marketing**
**After completing this course, the students will be able to*:***

CO.1. List the Nature and Scope of Rural Marketing with Special Reference to India

CO.2. Compare Buying Behaviour in Rural Markets,

CO.3. Classify Rural Marketing Information system

CO.4. Categorize the Rural Markets, Communication and Large Format Retail Stores.

CO.5. Prioritize the Study of Rural Markets Strategy in relation to Product, Pricing, Promotion and Distribution Strategy.

CO.6. Design the information technology for Rural Markets and Rural Market Research.

**6. Bba-510: Stock Market Operations**

**After completing this course, the students will be able to*:***

CO.1. Describe Introduction, Evolution and Growth of Stock Markets in India. Functions of Stock Exchange, Intermediaries in the Secondary Market, Secondary Market Mechanism. an Overview of Major Stock Exchanges in India – N.s.E., B.S.E. and O.T.C.E.I.

CO.2. Outline the Concept, Types, Brief Overview of BSE SENSEX and S&P CNX Nifty.

CO.3. Classify Legal Framework for Stock Exchanges by explaining The Sceurities Exchange Board of India Act 1992, Stock Brokers and Sub Brokers Rules and Regulations, 1992, and NSCCL Rules, Regulations and Byelaws

CO.4. Investigate the Trading, Clearing and Settlement Mechanism at N.S.E, Dematerialisation and Electronic Transfer of Securities, Investor Protection Fund

CO.5. Inspect Depository Operations through Stock Futures and Index Futures) and Options (Stock Options and Index Options).

**7. BBA-511: Insurance Management**

**After completing this course, the students will be able to*:***

- Demonstrate knowledge of insurance contracts and provisions, and the features of property-liability insurance, life and health insurance, and employee benefit plans.
- Demonstrate knowledge of the operation and management of insurance entities, and the economic implications of organizational design and structure.
- Develop skills to facilitate insurance product cost and pricing, marketing, and distribution.
- Develop practical skills through professional development seminars, internships, and/or a practicums in insurance and risk management.
- Examine the role of public policy including social insurance in personal financial planning and risk management.

**Class: BBA-III, Semester- VI**

**1. BBA-601: Industrial Training Project**

CO.1. Exposure to current work practices as opposed to possibly theoretical knowledge being taught at college.

CO.2. Predict the professional skills in a hands-on environment.

CO.3. Evaluate the skills students have developed in them time with the company.

CO.4. Inspect a practical perspective on the world of work.

CO.5. This interaction gave the students

CO.6. Illustrate the skills interaction, working methods and employment practices

**2. BBA-602 Project Report**

CO.1. Describe the practical exposure got during the training.

CO.2. List the learning during the industrial training

CO.3. Describe the company in which students have attended the training

CO.4. Uses the theatrical knowledge in solving the problems face by the traning organisation

CO.5. Illustrate the research tools like sampling techniques, statistic test etc

**3.** BBA-603 Seminar on the Project Report

CO.1. Demonstrate confidence in their activities

CO.2. Develop effective communication skills

CO.3. Demonstrate strong abilities of working in teams

CO.4. Identify strategies to adapt to different situations

**CO.5.** Design and deliver effective presentations

# Course Outcomes (COs)

**B. Com - I**

**Semester-1st**

| Code | Course |
|---|---|
| BC 101 | Punjabi |
| BC 102 | Communication Skills |
| BC 103 | Financial Accounting-I |
| BC 104 | Business Law-I |
| BC 105 | Computer Applications in Business |
| BC 106 | Principles of Economics- I |

**Semester-2nd**

| Code | Course |
|---|---|
| BC 201 | Punjabi |
| BC 202 | Communication Skills |
| BC 203 | Financial Accounting-II |
| BC 204 | Business Law-II |
| BC 205 | Business Mathematics |
| BC 206 | Principles of Economics- II |

**BC 101 Punjabi**

**CO1:** ਸਾਹਿਤਕ ਰਚਨਾਵਾਂ ਦੇ ਮਾਧਿਅਮ ਨਾਲ ਹਵਹਦਆਰਥੀਆਂ ਅੰਦਰ ਸਾਹਿਤਕ ਰੁਚੀਆਂ ਦਾ ਹਵਕਾਸ ਹੋਵੇਗਾ

**CO2:** ਭਾਸ਼ਾ ਦੀ ਸਹਿਾਦਂਤਕ ਜਾਣਕਾਰੀ ਨਾਲ ਹਵਹਦਆਰਥੀ ਦੀ ਭਾਸ਼ਾਈ ਸਮਰੱਥਾ

ਹਵਚ ਵਾਧਾ **CO3:** ਸਮਾਹਜਕ ਵਾਤਾਵਰਣ ਤੇ ਸਹਭਆਚਾਰਕ ਹਵਹਸ਼ਆਂ ਬਾਰੇ

ਹਗਆਨ ਦੀ ਪ੍ਰਾਪ੍ਤੀ **CO4:** ਆਲੋਚਨਾਤਮਕ ਤੇ ਹਸਰਜਣਾਤਮਕ ਸੋਚ/ਪ੍ਰਤੀਭਾ ਦਾ ਹਵਕਾਸ

**CO5:** ਮਨੁੱਖੀ ਹੋਂਦ ਦੇ ਸੰਕਟਾਂ ਦੀ ਸਹਨਸ਼ਾਨਦੇਹੀ ਅਤੇ ਉਹਨਾਂ ਦਾ ਯੋਗ ਹੱਲ ਲੱਭਣ ਦੇ ਸਮਰੱਥ ਹੋਣਾ

**CO6:** ਹਵਹਦਆਰਥੀ ਆਪ੍ਣੇ ਹਵਚਾਰਾਂ ਨੂੰ ਹਲਹਖਤ ਅਤੇ ਮੌਖਕ ਰ ਪ੍ ਹਵਚ ਹਵਅਕਤ ਕਰਨ ਦਾ ਹੁਨਰ

**CO7:** ਪ੍ੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀ ਹਵਆਕਰਨਕ ਸ਼ੁਦ੍ਧਤਾ ਨਾਲ ਹਕਸੇ ਵੀ ਹੋਰ ਭਾਸ਼ਾ ਨੂੰ ਆਸਾਨੀ ਨਾਲ ਸਹਹਣ/ਸਮਝਣ ਦੀ ਯੋਗਤਾ

**BC 102 & 202 Communication Skills**

**After completion of this course the student will be able to:**

**CO1:** understand cultural diversity and values of life.

**CO2:** become well versed in effective business communication.
**CO3:** develop clear and lucid writing skills
**CO4:** approach ideas with a creative bent of mind.
**CO5:** draft business correspondence effectively with great brevity and clarity.
**CO6:** relate with the nuances of business strategies and organisation .

**BC 103 & 203 FINANCIAL ACCOUNTING- I& 11**

**After completion of this course the student will be able to:**

**CO1**: Acquire conceptual knowledge of basics of accounting, prepare ledger accounts and do journal entries accordingly.

**CO2**: Equip with the knowledge of accounting process and prepare financial statements in accordance with appropriate standards.

**CO3**: Prepare Bank Reconciliation Statement from incomplete statements of Cash book and Pass Book.

**CO4**: Understand Partnership accounts for admission, retirement, death of partner and dissolution of Partnership Firm.

**CO5**: Understand the meaning of Hire- Purchase, Branch, Department and Consignment and also the preparation of the related accounts.

**CO6**: Apply previously acquired accounting and computer skills by using software Tally.ERP.9.0

**BC 104 & 204 BUSINESS LAW-I & II**

**After completing this course the students will be able to:**

**CO1:** Appreciate the relevance of Law of Contract Act for an individual as well as for business houses along with the significance of forming, performing and discharging written and verbal contracts and agreements.

**C02:** Acquire knowledge about entering into special contracts like indemnity, guarantee, bailment, pledge and agency including the remedies available to the parties for the breach of contracts.

**CO3:** Hold grip on basics of Sales of Goods Act including conditions, warranties, sale by auction and hire purchase agreements and Partnership Act that consists of nature, types, registration process, rights, duties, authorities and dissolution defined under the act.

**C04:** Gain knowledge about the contents like features, agreements and incorporation by registration covered under The Limited liability Partnership Act.

**CO5:** Understand the significance of negotiable instruments like promissory note, bill of exchange and cheques in the day to day life and business under Negotiable Instrument Act.

**C06:** Understand the legal framework under the Consumer Protection Act and the procedure to seek justice under grievance redressal machinery and get deep insight into the Patent Act

**C07:** Acquire knowledge about the provisions of Factories Act regarding health, safety and welfare of workers with additional provisions regarding employment of women, young person and Children.

**C08:** Comprehend the purpose behind establishment of Right to Information Act and IT Act that describes objectives, penalties, powers, functions and the role of State, central and information commissions to handle appeals and grievances.

**BC 105 COMPUTER APPLICATION FOR BUSINESS**
**After Completion of this Course the student will be able to:**

**CO1:** Understand the Practical aspects of MS-Windows 7
**CO2:** Learn the MS-Office 2007 including Ms-Word, Ms-PowerPoint, Ms-Excel and their utility in writing document, creating spreadsheet, preparation PowerPoint presentation
**CO3:** Learn working of computer system & its parts
**CO4:** Learn Number system and technique to represent computer system architecture, every value that you are saving and getting into/from computer memory

**BC 106 & 206 PRINCIPLES OF ECONOMICS I & II**
**After completion of this course the student will be able to:**

**CO1**: Understand theories and principles in microeconomics including demand theory, elasticity of demand and consumer equilibrium with utility and indifference curve analysis.
**CO2:** Analyze the relationship between inputs used in production and the resulting output and cost, integrate the concepts of price and output decisions of firms and industry under various market structure.
**CO3:** Understand theories and principles in macroeconomics including national income, models of employment and output determination, consumption function and investment multiplier.
**CO4:** Assess business fluctuations, expansions and recessions, long term macro- economic growth trends and concept of Inflation.
**CO5:** Apply these principles to analyze economic issues.
**CO6:** Communicate effectively using written and oral arguments about specific economic issues.

**BC 201 Punjabi**

**CO1:** ਹਵਆਕਰਨਕ ਪ੍ਰੰਿਤ ਉੱਤੇ ਪ੍ਰੰਜਾਬੀ ਭਾਸ਼ਾ ਨ◌ੰ ◌ੁ◌ੋਂ◌ਿ ਰ ਪ੍ ਹਵ◌ੰਚ ਉਚਾਰਨ, ਹਲਖਣ ਅਤੇ ਪ੍ਰੜ◌ੁਨ ਦਾ ਿ◌ੁਨਰ

**CO2:** ਪ੍ੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਸ਼ਬਦ ਹਨਰਮਾਣ ◌ੁ◌ਿ◌ੰ◌ਿ◌ ਦਾ ਹਗਆਨ

**CO3:** ਵੱਖ ਵੱਖ ਉਪ੍ਭਾਸ਼ਾਵਾ◌ਾ◌ਂ ਦੀ ਵੱਖਰਤਾ ਗ◌ਾ◌ਿ◌ੰ◌ੀ◌ਂ ਪ੍ੰਜਾਬ ਦੀ ਭਾਸ਼ਾਈ ਹਭੰਨਤਾ ਤੇ ਹਵਸ਼◌ਾਲਤ◌ਾ ਦਾ

ਹਗਆਨ

**CO4:** ਹਵਹਭੰਨ ਸਮ◌ਾਹਜਕ, ਰਾਜਨੀਤਕ, ਿ◌ਾ◌ਰਹਮਕ ਮੁੱਹਦਆਂ ◌ੁ◌ਂ◌ਿ◌ੀ ਹਵਚ◌ਾਰ◌ਾ◌ਂ ਦੇ ਹਨਰਮਾਣ

ਦੀ ਸਮਰੱਥਾ ਹਵਚ ਵਾ◌ਿ◌ਾ

**CO5:** ਮੁਕਾਬਲੇ ਦੀਆਂ ਪ੍ਰ◌ੀਹਖਆਵ◌ਾ◌ਂ ਹਵਚ ਸ◌ਾ◌ਿ◌ਾਇਕ

**CO6:** ਸਮ◌ਾਹਜਕ ਹਰਸ਼ਹਤਆਂ ਹਵਚ ਭਾਵ◌ਾ◌ਂ ਦੀ ਸਰਲ ਪ੍ੇਸ਼ਕਾਰੀ ਹਨਜ◌ੀ ਹਚਠ◌ੀ-ਪ੍ੱਤਰ ਗ◌ਾ◌ਿ◌ੰ◌ੀ◌ਂ ਕਰਨ ਦੀ ਯੋਗਤਾ

**CO7:** ਵਪ੍◌ਾਰਕ ਪ੍ੱਤਰ ਹਵ◌ਾ◌ਿ◌ਾਰ ਗ◌ਾ◌ਿ◌ੰ◌ੀ◌ਂ ਵਪ੍◌ਾਰਕ ਪ੍ੰਿਚ ‘ਤੇ ਸੰਚਾਰ ਸਮਰਥਾ ਦਾ ਹਵਕਾਸ

**CO8** ਭਾਸ਼ਾ ਦੇ ਹਵਹਭੰਨ ਰ ਪ੍◌ਾ◌ਰ◌ਂ ਨ◌ੰ ਸਮਝ ਕੇ ਸਮਾਜ ਹਵੱਚ ਪ੍ਰਭਾਵਸ਼ਾਲੀ ਰ ਖ੍ ਹਵੱਚ ਹਵਚਰਨ ਦੀ ਯੋਗਤਾ

**CO9:** ਭਾਸ਼ਾ ਦੀ ਸਮਰਥਾ ਪ੍ਛਾਣ ਕੇ ਅੰਦਰਲੀ ਯੋਗਤਾ ਦਾ ਿ◌ੀ ਪ੍ਰਯੋਗ ਕਰਨਾ

**CO10:** ਸ◌ਾਿ◌ਤਕ ਰਚਨਾਵਾ◌ਾ◌ਂ ਦੇ ਮ◌ਾਿ◌ਅਮ ਨਾਲ ਰ ਸ◌ਾਿ◌ਤਕ ਰੁਚੀਆਂ ਦਾ ◌ੇਗਾ ਹਵਹਦਆਰਥ◌ੀਆਂ ਅਦ ਹਵਕਾਸ ਿ◌ੇ

**BC 205 Business Mathematics**

**CO1:** To analyse and demonstrate mathematical skills which is required in mathematical intensive areas in economics and busines

**CO2:** Learn about mathematical applications in commerce, finance, economics etc.

**CO3:** Apply the knowledge in mathematic in solving business problems.

**CO4:** Use simple and compound interest to do business calculations such as value of money, present value and future value and will be able to differentiate which math method should be used for different problems.

**CO5:** Use differential calculus to solve problems of finding maximum profits and minimum cost

# Course Outcomes (COs)

**B. Com - II**

**Semester-3rd**

| Code | Course |
|---|---|
| BC 301 | Punjabi |
| BC 302 | Communication Skills |
| BC 303 | Principles of Business Management |
| BC 304 | Corporate Accounting - I |
| BC 305 | Income Tax - I |
| BC 306 | Business Statistics |

**Semester-4th**

| Code | Course |
|---|---|
| BC 401 | Punjabi |
| BC 402 | Communication Skills |
| BC 403 | Company Law |
| BC 404 | Corporate Accounting - I |
| BC 405 | Income Tax - I |
| BC 406 | Operation Research |

**BC 301 Punjabi**

**CO1:** ਹਵਹਦਆਰਥੀਆਂ ਨ ਂ ਗੌਰਵਮਈ ਇਤਿ ਹਾਸ ਦਾ ਹਗਆਨ ਿ ੇਵੇਗਾ

**CO2:** ਸ ਾਿ ਤਕ ਰ ਪ੍ ਾਕਾਰ ਨਾਵਲ ਾਿ ੀ ਂ ਹ ਂਦਗ ੀ ਦੀ ਹਵਸ਼ ਾਲਤ ਾ ਨ ਂ ਸਮਝਣ ਦੀ ਯੋਗਤਾ ਦਾ ਹਵਕਾਸ

**CO3:** ਵਾਕ ਬਣਤਰ ਦੇ ਹਗਆਨ ਾਿ ੀ ਂ ਹਵਹਦਆਰਥ ੀ ਆਪ੍ਣੇ ਭਾਵ ਾ ਂ ਦਾ ਸੰਚਾਰ ਸੁਚੱਜੇ ਢੰਗ ਨਾਲ ਕਰ ਸਕਣਗੇ

**CO4:** ਵਪ੍ ਾਰਕ ਅਦਾਹਰਆਂ ਹਵਚ ਦਫ਼ਤਰੀ ਕੰਮਕਾਜ ਹਵਚ ਵਰਤੀ ਜਾਦੀ ਰਾਜ ਭਾਸ਼ਾ ਪ੍ ਂਜਾਬੀ ਦੀ ਤਕਨੀਕੀ ਜਾਣਕਾਰੀ ਾਿ ੀ ਂ ਰ ੁ ਗਾਰ ਸੰਭਾਵਨਾਵ ਾ ਂ ਹਵ ੱ ਚ ਵ ਾਿ ਾ

**CO5:** ਸ ਾਿ ਤਕ ਰ ਪ੍ ਾ ਂ ਦੀ ਾਸਿ ਾ ਂ ਤਕ ਸਮਝ ਦੇ ਨਾਲ ਉ ਿ ੱ ਖ ਵ ੱ ਖ ਸ ਾਿ ਤ ਰ ਪ੍ ਾ ਂ ਹਵਚ ਸ ਾਿ ਤ ਰਚਣ ਦੇ ਯੋਗ ਿ ੇਣਗੇ

**CO6:** ਸ ਾਿ ਤਕ ਾ ਰ ਦੇ ਜੀਵਨ ਸਫ਼ਰ ਦਾ ਹਗਆਨ ਹਵਹਦਆਰਥੀਆਂ ਨ ਂ ਰਚਨਾਕਾਰ ਦੇ ਨ ਂ ਸਮਝਣ ਹਵ ੱ ਚ ਸ ਾਿ ਤਕ ਹਦ ਾ ਸ਼ਟ ੀ ਕਣ ਾਿ ਥ ਿ ੇਵੇਗਾ

**BC 302 & 402 Communication Skills**

**CO1:** develop overall linguistic competence and communication skills.
**CO2:** understand and be aware of cultural diversities and problems of the world.
**CO3:** make abstracts and summaries of business proposals.
**CO4:** communicate in an ethical manner.
**CO5:** demonstrate effective verbal and non-verbal skills through presentations.

**CO6:** Participate in brainstorming sessions in a business organisation.
**CO7:** gain proficiency in soft skills required for national and global placements.

**BC 303 PRINCIPLES OF BUSINESS MANAGEMENT**

**After completion of this course the student will be able to:**

**CO1**: define the meaning, scope, significance, functions and process of management.

**CO2:** list the characteristics, process and types of plans and understand the difference between delegation and decentralisation of authority and types of organisation structure.

**CO3:** have an insight of the process of recruitment, selection and various types of training provided to the employee.

**CO4:** learn various theories of motivation and leadership and types of leadership styles along with importance of communication and Co-ordination.

**BC 304 & 404 CORPORATE ACCOUNTING-I & II**

**After completion of this course the student will be able to:**

**CO1:** Acquire knowledge of corporate accounts, accounting standards and to describe various practices and procedures related to Company Act, 2013.

**CO2:** Understand the basic structure and redemption of share capital and debentures, ability to grasp knowledge of right issue and bonus share.

**CO3:** Develop ability to understand underwriting of shares, preparation of income statement, position statement and consolidate balance sheet for holding company.

**CO4:** Learn Accounting Standard-14 that helps them to know the process of Amalgamation and Internal reconstruction, interpretation and preparation of liquidation final accounts.

**CO5:** Enlarge capability to understand the concept and preparation of accounts related to banking and insurance company, calculation of profit prior to incorporation.

**BC 305 & 405 INCOME TAX LAW-I & II**

**After completing this course the students will be able to: CO1**:

Define the procedure of direct tax assessment.

**CO2**: identify the five heads in which income can be categorised

**CO3**: understand clubbing provisions, aggregation of income after set-off and carry forward of losses.

**CO4**: compute total income and define tax complicacies and structure.

**CO5**: learn about appeal & revision, tax penalties, offences and prosecutions.

**BC 306 BUSINESS STATISTICS**

**After completion of this course the student will be able to:**

**CO1:** understand basic concepts of Statistics such as collection of data, tabular and graphical representation of data.

**CO2:** calculate Measures of Central Tendency, Dispersion, Correlation and Regression analysis.

**CO3:** analyze time series and its trend including seasonal indices.

**CO4:** solve the problems relating to Index number.

**CO5:** understand the concept relating to forecasting, and they would be able to forecast the demand and sales of companies or industries.

**BC 401 Punjabi**

**CO1:** ਕਹਵਤਾ ਨ ਂ ਪ੍ਰੜ੍ਹਦਆਾਂ ਹਵਹਦਆਾਰਥੀਆਾਂ ਅੰਦਰ ਸ ਾਰ ਿ ਤਕ ਰੁਚੀ ਦਾ ਹਵਕਾਸ ਿ ੈਵੇਗਾ

**CO2:** ਕਹਵਤ ਾ ਹਵਹਦਆਾਰਥੀਆਾਂ ਦੀ ਕਲਪ੍ਨਾ ਸ਼ਕਤੀ ਦਾ ਹਵਕ ਾਸ ਕਰਗੀ

**CO3:** ਕਹਵਤ ਾ ਦੁਆਰਾ ਹਵਹਦਆਾਰਥੀਆਾਂ ਸ਼ਬਦ ਦੀ ਸਮਰਥਾ ਅਤੇ ਪ੍ਰਤ ਾ ਂ ਬਾਰੇ ਿ ੀ ਅਰਥ ਾ ਂ ਹਵਚ ਜਾਣਨਗੇ।

**CO4:** ਹਵਹਦਆਾਰਥੀਆਾਂ ਨ ਂ ਸ ਾਰ ਿ ਤਕ ਲ ਾ ਿ ਰ ਾ ਂ ਦਾ ਹਗਆਨ ਉ ਿ ਨ ਾ ਂ ਦੀ ਸ ਾਰ ਿ ਤਕ ਹਸਰਜਣਾ ਦੇ ਿ ੁਨਰ ਨ ਂ ਹਨਖਾਰੇਗਾ

**CO5:** ਪ੍ੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਹਪ੍ਛੋਕੜ੍ ਦਾ ਹਗਆਨ ਹਵਹਦਆਾਰਥੀਆਾਂ ਨ ਂ ਮ ਾ ਂ ਬੋਲੀ ਪ੍ੰਜਾਬੀ ਦੇ ਮਾਣਯੋਗ ਮੁੱਲ ਾ ਂ ਨਾਲ ਜੋੜ੍ ੇਗਾ

**CO6:** ਗੁਰਮੁਖੀ ਹਲੱਪ੍ੀ ਦੀ ਹਵਕਾਸ ਪ੍ਰਹਕਹਰਆ ਬਾਰੇ ਪ੍ੜ੍ ਦ ੇ ਿ ੇ ਹਵਹਦਆਾਰਥ ੀ ਭਾਸ਼ਾ ਅਤੇ ਹਲ ਪ੍ ੀ ਦੇ ਆਪ੍ਸੀ ਸਬੰ ਿ ਾ ਂ ਨ ਂ ਸਮਝ੍ਣਗੇ

**CO7:** ਹਲੱਪ੍ੀ ਨ ਂ ਸਮਝ੍ਣ ਤੋਂ ਬਾਅਦ ਭਾਸ਼ਾ ਦੀ ਸਮਰਥਾ ਪ੍ਛਾਨਣ ਦੇ ਯੋਗ ਿ ੇ ਹ ਗੇ

**CO8:** ਸਮਾਹਜਕ ਰਾਜਸੀ ਅਕਾਦਹਮਕ ਿ ੇ ਾ ਲ ਤ ਾ ਂ ਪ੍ਰਤੀ ਆਪ੍ਣੀ ਸੰਵੇਦਨਾ ਤੇ ਸਮਝ ਹਵਅਕਤ ਕਰਨ ਦੇ ਕਾਹਬਲ ਿ ੇ ਹ ਗੇ

**BC 403 COMPANY LAW**

**After completion of this course the student will be able to:**

**CO1**: Understand the background of new companies Act, 2013 and kinds of companies.

**CO2:** Acknowledge and explicate the three important documents for incorporation and commencement of Business of Company: Memorandum of Association, Articles of Association and Prospectus.

**CO3:** Specify various types of shares and share capital and elucidate the alteration of MOA, AOA and consequences of misrepresentation in prospectus.

**CO4:** Recognize the powers and duties of directors and know various forms of winding up of company.

**BC 406 OPERATIONS RESEARCH**

**After completing this course, the students will be able to:**

**CO1:** Understand concepts, scope and techniques of operations research for business decision making.

**CO2:** Appropriately formulate linear programming models and application of OR techniques to solve these Linear programming problems.

**CO3**: Propose the strategy using decision making method under uncertainty and game theory.

**CO4:** Understand and interpret variety of problems such as assignment, transportation and travelling salesman, etc.

**CO5:** Solve multilevel decision problems and simulate different real-life probabilistic situations using Monte Carlo simulation techniques.

# Course Outcomes (COs)

**B. Com - III**

**Semester- 5th**

| Code | Course |
|---|---|
| BC 501 | Punjabi |
| BC 502 | Management Accounting-I |
| BC 503 | Cost Accounting-I |
| BC 504 | Indirect Taxes |
| BC 505 | Auditing |
| BC 506 | Corporate Finance |

**Semester- 6th**

| Code | Course |
|---|---|
| BC 601 | Punjabi |
| BC 602 | Management Accounting-II |
| BC 603 | Cost Accounting-II |
| BC 604 | Business Environment |
| BC 605 | Entrepreneurship and Governance |
| BC 606 | Financial Planning |
| | International marketing |

**BC 501 Punjabi**

**CO1:** ਹਵਹਦਆਰਥੀਆਂ ਅੰਦਰ ਸਾਹਿਤ ਦੇ ਪ੍ਰਯੋਜਨ ਅਤੇ ਤੱਤਾਂ ਦੀ ਜਾਣਕਾਰੀ ਹਸਰਜਣਾਤਮਕ ਰੁਚੀਆਂ ਦਾ ਹਵਕਾਸ ਕਰੇਗੀ

**CO2:** ਸਾਹਿਤਕ ਰ ਪ੍ਰਾਕਾਰ ਨਾਵਲ ਗਾਹਿਤੀਂ ਹEਂਦਗੀ ਦੀ ਹਵਸ਼ਾਲਤਾ ਅਤੇ ਮਨੁੱਖੀ ਅਸਹਤਤਵ ਦੇ ਸਮਕਾਲੀ ਅਤੇ ਹਚਰਕਾਲੀ ਸੰਕਟਾਂ ਨੂੰ ਸਮਝਣ ਦੀ ਯੋਗਤਾ ਦਾ ਹਵਕਾਸ

**CO3:** ਨਾਵਲ ਰਪ੍ਰਾਕਾਰ ਗਾਹਿਤੀਂ ਜੀਵਨ ਸਰੋਕਾਰਾਂ ਦੀ ਪ੍ਰੇਸ਼ਕਾਰੀ ਹਵਹਦਆਰਥੀਆਂ ਅੰਦਰ ਮਾਨਵੀ ਸੰਵੇਦਨਾ ਨੂੰ ਜਗਾਏਗੀ

**CO4:** ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਹਸਹਾਂਤਕ ਸੰਕਲਪ੍ਾਂ ਦੀ ਜਾਣਕਾਰੀ ਵਾਹਿਰਕ ਭਾਸ਼ਾ ਦੇ ਸੰਗਠਨ ਨੂੰ ਸਮਝਣ ਹਵਚ ਸਹਾਈ ਹਿਵੇਗਾ

**CO5:** ਹਵਹਭੰਨ ਸਮਾਹਜਕ ਸਹਭਆਚਰਕ ਤੇ ਵਾਤਾਵਰਨਕ ਹਵਹਸ਼ਆਂ ਦਾ ਹਗਆਨ ਮੁਕਾਬਲੇ ਦੀਆਂ ਪ੍ਰੀਹਖਆਵਾਂ ਹਵਚ ਸਹਾਇਕ

**BC 502 & 602 MANAGEMENT ACCOUNTING-I & II**

**After completing this course, the students will be able to:**

**CO1:** Apply management accounting and its objectives in facilitating decision making. **CO2:** Give proper idea on financial statement analysis from practical point of view. **CO3:**

Prepare Cash Flow and Funds Flow statements this helps them in planning for intermediate and long-term finances.

**CO4:** Calculate various accounting ratios and analyse and interpret the liquidity, solvency, turnover and profitability by these ratios.

**CO5:** Acquaint the meaning and types of Budgets and the concept of budgetary control.

**BC 503 & 603 COST ACCOUNTING-I & II**
**After completion of this course the student will be able to:**

**CO1:** acquire in depth indulgent of cost accounting principles for identification, analysis and interpretation of cost components and ascertainment using various costing methods and procedures.

**CO2:** understand the basic structure of cost accounting and cost related concepts, preparation of cost sheet along with elements of cost, analyse and evaluate information related to material, labour and overhead costs.

**CO3:** develop ability to understand and calculate the cost through FIFO, LIFO and Average Method, cost determination through apportionment and absorption of overheads, over valuation and under valuation of overheads.

**CO4:** learn reconciliation of cost and financial account that help them to find out any discrepancies and error arising from cost accounts and to understand the basic fundaments of unit costing, identification of difference between job and contract costing.

**CO5:** enlarge capability to comprehend and calculate equivalent production, structure of process costing; identify the disparity between traditional costing and activity base costing.

**BC 504 INDIRECT TAXES**
**After completion of this course the student will be able to:**

**CO1:** Understand the comprehensive structure of GST along with basic principles underlying the indirect system of taxation in India.

**CO2:** Determine taxable event, taxable person, time, place and value of supply for implementation of SGST, CGST and IGST.

**CO3:** Get a better understanding of the registration process for claiming input tax credit and requirement of filing various forms and documents like tax invoice, debit note, credit note and bill of supply etc.

**CO4:** Describe the powers and functions of GST Council and its role in the administration of GST.

**CO5:** Compare the previous tax system and the present GST regime to critically examine the strengths and weaknesses of both systems.

**CO6:** Familiarize with types of custom duty, the modes of valuation, exemptions and procedures applicable for exports and imports under indian customs act.

**BC 505 AUDITING**
**After completion of this course the student will be able to:**

**CO1:** Know the basic principles governing an Audit and importance of an error-free financial statement.

**CO2:** Get deeper insight in the role of Institute of Chartered Accountants of India for issuing auditing standards to conduct audit and other assurance engagements.

**CO3:** Understand auditors' qualifications, disqualification, rights, duties and liabilities and acquire knowledge of audit evidence and documentation.

**CO4:** Describe the procedure of vouching of cash and trading transactions, assets and liabilities in financial statements along with understanding of inherent risk involved in assessing and evaluating the financial statements.

**CO5:** Discuss the process of formulating the audit report and communicating the same to the client and the recent changes rising in the field of Auditing with special reference to Tax Audit and management Audit.

**BC 506 CORPORATE FINANCE**

**After completing this course the students will be able to:**

**CO1:** Study the different techniques and methods while calculating time value of money and the applicability of the concept of corporate finance to understand the managerial Decisions and Corporate Capital Structure

**CO2:** Understand the objectives and process of investment decisions, its evaluation criteria using different techniques and models.

**CO3:** Enlighten alternative sources of finance and investment opportunities and their suitability in particular conditions

**CO4:** Measure the criteria of proportionate investment in different securities under the capital structure decision.

**CO5:** Apply different dividend theories while taking decisions concerning dividend pay-out ratio.

**CO6:** Analyse different issues which evaluate the requirements of working capital for the company's efficient performance.

**OR**

**BC 507 PRINCIPLES OF MARKETING**

**After completing this course the students will be able to**

- Critically evaluate the key analytical frameworks and tools used in marketing
- Apply key marketing theories, frameworks and tools to solve Marketing problems
- Utilise information of a firm's external and internal marketing environment to identify and prioritise appropriate marketing strategies
- Exercise critical judgement through engagement and reflection with existing marketing literature and new developments in the marketing environment
- Critically evaluate the marketing function and the role it plays in achieving organisational success both in commercial and non-commercial settings

- Evaluate and act upon the ethical and environmental concerns linked to marketing activities

**BC 601 Punjabi**

**CO1:** ਅੰਗਰੇਜ਼ੀ ਤੋਂ ਪ੍ਰੰਜਾਬੀ ਅਨੁਵਾਦ ਕਰਦੇ ਿੋਏ ਭਾਸ਼ਾਈ ਸਾਰ੍ਹੰਚਾਰ੍ਹ ਅਤੇ ਵਖਰੇਹਵਆਾਂ ਬਾਰੇ ਜਾਨਣ ਦੇ ਸਮਰੱਥ ਿੋਣਗੇ

**CO2:** ਹਸਵਲ ਪ੍ਰ੍ਹੰਖਆਵਰ੍ਹਾਂ ਹਵਚ ਪ੍ਰੰਜਾਬੀ ਭਾਸ਼ਾ ਦਾ ਅਹਿਐਨ ਉਿਾਰ੍ਹਾਂ ਨਾਲ ਮਜਬ ਤ ਅਿਰ ਪ੍ਰਦਾਨ ਕਰੇਗਾ

**CO3:** ਹਵਹਦਆਰਥੀ ਤਕਨੀਕ ਦੇ ਦੌਰ ਹਵਚ ਿੁੰਦੇ ਿੋਏ ਲੋਕਿਾਰਾਈ ਰ ਪ੍ਰ੍ਹਾਰ੍ਹੰਤਰਣ ਦੇ ਬੋਿ ਬਾਰੇ ਹਗਆਨ ਿਾਸਲ ਕਰਨਗੇ

**CO4:** ਹਵਹਦਆਰਥੀਆਾਂ ਹਵਚ ਅਨੁਵਾਦ ਹਿੀਂ ਬਿ-ਭਾਸ਼ਾਈ ਯੋਗਤਾ ਦਾ ਹਨਰਮਾਣ

**CO5:** ਹਵਹਦਆਰਥੀ ਪ੍ਰੰਜਾਬ ਦੀ ਲੋਕਿਾਰਾ/ਸਹਭਆਚਾਰ ਬਾਰੇ ਪ੍ਰਪ੍ਰ ਹਗਆਨ ਹਿੀਂ ਆਪ੍ਣੀਆਾਂ ਪ੍ਰੰਪ੍ਰਾਵਾਂ ਦਾ ਸਮਕਾਲ ਨਾਲ ਵਰ ਮੇਚ ਕੇ ਮੁਲਾਾਂਕਣ ਕਰਨ ਦੇ ਸਮਰੱਥ ਿੋਣਗੇ

**CO6:** ਹਵਹਦਆਰਥੀ ਮੀਡੀਆ ਤੇ ਤਕਨੀਕ ਹਿੀਂ ਲੋਕਿਾਰਾਈ ਅੰਸ਼ਾਾਂ ਦੀ ਕੀਤੀ ਜਾ ਰਿੀ ਪ੍ਰੇਸ਼ਕਾਰੀ ਸਬੰਿੀ ਪ੍ਰੱਖ ਤੇਹਵਪ੍ਰੱਖ ਹਵਚ ਆਪ੍ਣੇ ਹਵਚਾਰ ਬਣਾਉਣ ਦੇ ਸਮਰੱਥ ਿੋਣਗ

**BC 604 BUSINESS ENVIRONMENT**

**After completion of this course the student will be able to:**

**CO1:** Understand relationship between environment and business, significance and changing dimensions of business environment.

**CO2**: Analyse changing trends in micro and macro variables in India including the conceptual framework of BOP, employment, income, money supply, price level, saving and investment trends in the economy.

**CO3:** Grasp the importance of planning undertaken by the government of India and familiarize with Economic System & its types, growth and performance of public and private sector in India.

**CO4:** Understand importance of Fiscal, Monetary and New economic policy and their impact on Indian economy.

**CO5:** Interpret the current trends in India's foreign trade and the functioning of international economic groupings.

**BC 605 ENTREPRENUERSHIP AND GOVERNANACE**

**After completing this course, the students will be able to:**

**CO1:** Understand the needs and beginning of entrepreneurial class and communicate the applicability of different entrepreneurial theories.

**CO2:** Evaluate the different factors who affect the growth of entrepreneurs and developments of women entrepreneurship.

**CO3:** Analyse the role of EDP's and different financial or non-financial authorities for sustainability and encouraging entrepreneurship.

**CO4:** Understand the role of business ethics for sound business,

**CO5:** Apply different theories and principles of business ethics in a business organisation.

**CO6:** Understand the conceptual framework of corporate governance by following the recommendations of clause 49 and Kumar Mangalam Birla committee.

**CO7:** Understand the concept of 'corporate social responsibility (CSR)' and its different aspects related with business ethics & corporate governance.

**BC 606 FINANCIAL PLANNING**

**After completion of this course the student will be able to:**

**CO1:** Understand and demonstrate the basics of financial planning like nature, advantages, process and legal aspects involved in developing financial plan.

**CO2:** Discuss various investment options available in capital and money market and will have clear understanding of objectives, rewards and constraints while investing funds.

**CO3:** Familiarize with the concept of risk, return, time value of money, portfolio and diversification needed to evaluate the performance of financial planning.

**CO4:** Synthesize information to develop a successful financial plan and evaluate tax saving instruments.

**CO5:** Analyse the need of life and health insurance and the role of investor's grievances and redressal system in India.

Or

## BC-607-INTERNATIONAL MARKETING

**After completion of this course the student will be able to:**

1. Classify strategies for entering export markets from extant knowledge and research
2. Apply core theoretical concepts in international marketing to find practical solutions to constraints of small businesses
3. Differentiate the merits of varied solutions in the profession of marketing and business development
4. Synthesise feedback obtained from real world critique and evidence gathered from different sources to address problems related to international marketing
5. Propose revised strategies and marketing communications to enter diverse international markets
6. Improve professional experience through an evidence-based approach to decision making in the domain of international marketing

## B.Sc MEDICAL (BOTANY)

### SEM-I

### Significant outcome of Diversity of Microbes

1. Microbes keep nature clean by helping breakdown dead plants and animals into organic matter.
2. Microbes allow our bodies to mount on effective defensive response against pathogen.
3. They separate the basic drug cycles that are necessary for the plants supply of nutrients via the reaction of organic matter in soil.

### Significant outcome of Diversity of Cryptogams

1. Cryptogams are one of the oldest plant species. The aim of opening a cryptogenic garden is to make people aware of these primitive plant species and to promote their growth.
2. They show hidden reproductive organs and produce spores for reproduction.
3. They had 66% higher photosynthetic rate and because the majority of the gas exchange of lichen thalli took place through the lower structure.

### SEM-II

### Significant outcome of Cell Biology

1. By understanding the cells work in healthy and diseased states, cell biologist working in animal, plant and medical science will be able to develop new vaccines, more effective medicines, plants with improved qualities and through increased knowledge a better understanding of how all living things live.
2. Research in cell biology is interconnected to other fields such as Genetics, Molecular Genetics, Molecular Biology, Medical Microbiology, Immunology and Cyto chemistry.

## Significant outcome of Genetics and Evolution

1. Evolution is a process that results in changes in the genetic material of population overtime. Evolution refers the adaptations of organisms in their changing environments and can result in altered genes, novel traits and new species.
2. The ideologies of natural selection and evolution explore the breadth of biodiversity among organisms. The knowledge imparted by genetics and evolutionists led to modern technologies such as genetic engineering and selective breeding.

## SEM-III

### Significant outcome of Diversity and Systematic of Gymnosperms

1. Provide food and habitat for wildlife.
2. Forest prevent soil erosion
3. Reduce green house gases.
4. Provides timber
5. Resins
6. Ornaments plants
7. food

### Significant outcome of Diversity and Systematic of Angiosperms

1. Flowering plants provide animals that live on land with they need to survive.
2. Humans depend on flowering plants and use them in many ways.
3. We eat them; make furniture, toys, clothing, role, medicines, rubber and perfumes.

## SEM-IV

### Significant outcome of Plant Anatomy

1. To summarize the role of each cell structure in plant development.
2. To evaluate the importance of various plant tissues in plant development.
3. To summarize the contribution of each organ within plant body.
4. To evaluate the stages of plant growth and development.

**Significant outcome of Development and Reproduction in Flowering Plants**

1. It represents as evolutionary innovation with their production of flower and fruits.
2. To describe parts of flowering plants.
3. To identify reproductive structures of plants that exists in the flower.
4. To identify the differences between monocot and dicot plants.
5. To explain the difference between pollination and fertilization.

**SEM-V**

**Significant outcome of Plant Physiology**

1. Plant physiology explains the water, solute and sugar transport process in plants.
2. They explain the different mechanism in plant used for water transport.
3. They explain how plants achieve water balance.
4. They explain how sugar is transloacte throughout plant.

**Significant outcome of Plant growth, development and Biotechnology**

1. The utilization of biological processes, organisms or systems to provide products that can be anticipated to improve human lives is termed biotechnology.
2. Early agriculture concentrated on producing food.
3. The most primitive type of biotechnology is the cultivation of plants and the training of animals.

**SEM-VI**

**Significant outcome of Plant Utilization**

1. Plants and plant communities are very important to human and their environment.
2. Plants have great aesthetic value which means they add to beauty of the places.
3. Throughout history plants have been of great importance to medicine.

**Significant outcome of Plant Ecology**

1. Plant ecology examines the relationships of plants with the physical and biotic environment.
2. It tells about the rotation of crops with different nutritional needs, pests, disease and weeds can make a major contribution to sustainability.

**B.sc first year (2020-2021)**

**Paper – I Cell biology (1st semester)**

Course outcomes

From this segment of the syllabus aware about the size, shape structure and function of cells and different cell organelles .This will help the students for a better understanding of cell and its cycle.This will help the students for a better understanding of the cell and its cycle.

**Paper II Non Chordates**

Different group of invertebrates animals are studied in this cause including Protozoa ,Porifera ,Coelentrate, Platyhelminthes , aschelminthes , aanelida, Arthropoda ,Molluska and echinodermata .General characters and classification upto order are studied . some special features ,organs pathogenecity , life cycle and significance are studied here.

**B.Sc IInd Semester**

**Paper III Ecology**

Course outcomes

Impacts Knowledge to the student regarding environment and conservation biology .Gains knowledge in the areas of responses of laws of limiting factor ,laws of minimum , laws of

tolerance and tragedy of commons. Types of ecosystem –fresh water, marine and terrestrial .population chracterstics and dynamics –conceptual approach.

**Paper IV Chordates**

Course outcomes

1. Gains knowledge of functional anatomy of vertebrates from fishes to animals .
2. Understanding of evolutionary significance of internal fertilization , neotany and paedogenesis.
3. Understanding of origin and characters of amphibians , reptiles birds and mammals .

**B.sc 2nd year 3rd semester**

**Paper V Chordates**

1. To gain knowledge classify phylum protochordates to mamalia.
2. Describe general taxonomic rules on animals classification .
3. Knowledge of comparative anatomy of all systems of vertebrates.

**Paper VI Chordates and evolution**

1. To gain knowledge theories of evolution and general organization of chordates.
2. Knowledge of evuklution of heart, lungs and urino-gential organs of vertebrates.
3. Knowledge of flight and aquatic adaptations in birds and mammals.

**B.sc 2nd year ( 4th semester )**

**Paper VII Biochemistry**

1. To gain knowledge about interactions and interdependence of physiological and biochemical process.
2. Ablity to understand fundamental concepts of biology ,chemistry and biochemistry.

**Paper VIII Animal physiology**

The entire animals functions of the body are studied in this part. It includes nutrition respiration heart excreation nerve physiology etc in which all structure function process and control care are to be studied.

**B.sc 3rd year( 5th semester)**

**Paper V Development biology**

Course outcomes

1. Gain knowledge about gametogenesis, cleavage mechanisms , gastrulation and role of hormones in metamorphosis and regeneration
2. Knowledge about genetics development biology and organogenesis.

**Paper VI**

**Genetics**

1. To gain knowledge mendelian and non mendialian inheritance
2. To gain knowledge of rDNA technology , laws of inheritance , DNA finger –printing.

**B.sc –3rd year ( 6th semester)**

**Paper VII Medical Zoology**

Course outcomes

Understanding of insect vectors host interactions of many important disease like malaria ,yellow fever ,dengue etc.Medical zoology is an integral part of zoology involving the study of diverse ectoparasites and endoparasites . Understanding of fundamental complement of numerous disease which have significant impact on human health.

**Paper VIII Medical laboratory zoology**

1. To gain knowledge about tools, apparatus and chemicals.
2. To gain knowledge sterilization of bacteria apparatus.
3. To understand qualitative approaches and technologies involved in research.

**BSc – I (Sem-I)**

| Course No. | Course Title | Course Outcome |
|---|---|---|
| 1. | INORGANIC CHEMISTRY | To educate students on topic periodic classification of elements and chemical bonding. |
| 2. | ORGANIC CHEMISTRY | To make students aware about organic chemistry of saturated and unsaturated hydrocarbons along with introduction to reactions. |
| 3. | PHYSICAL CHEMISTRY | To provide knowledge about states of matter and liquid crystal. |
| 4. | CHEMISTRY PRACTICAL | To provide laboratory experience on qualitative salt analysis. |

**BSc – I (Sem-II)**

| Course No. | Course Title | Course Outcome |
|---|---|---|
| 1. | INORGANIC CHEMISTRY | To educate students on topics s-block and p-block elements. |

| | | |
|---|---|---|
| 2. | ORGANIC CHEMISTRY | To make students aware about aryl halides and alkyl halides and stereochemistry. |
| 3. | PHYSICAL CHEMISTRY | To provide knowledge about chemical kinetics, catalysis and colligative properties. |
| 4. | CHEMISTRY PRACTICAL | To provide laboratory experience on melting and boiling point and crystallization and hydrolysis kinetics study. |

**BSc – II (Sem-III)**

| Course No. | Course Title | Course Outcome |
|---|---|---|
| 1. | INORGANIC CHEMISTRY | To make students aware about Lanthanoids, actinides and d-block elements. |
| 2. | ORGANIC CHEMISTRY | To educate students about Alcohols, phenols, ethers, aldehydes and ketones. |
| 3. | PHYSICAL CHEMISTRY | To impart basic understanding on thermodynamics and chemical equilibrium. |
| 4. | CHEMISTRY PRACTICAL | To provide laboratory experience to student's topics related to theory and titration techniques. |

**BSc – II (Sem-IV)**

| Course No. | Course Title | Course Outcome |
|---|---|---|
| 1. | INORGANIC CHEMISTRY | To impart basic understanding on redox reaction, coordination compounds and acid base concept. |
| 2. | ORGANIC CHEMISTRY | To educate students on topics related to carboxylic acid, ethers, epoxides, nitro and amine compounds. |
| 3. | PHYSICAL CHEMISTRY | To provide knowledge about electrochemistry and phase equilibrium. |
| 4. | CHEMISTRY PRACTICAL | To provide laboratory experience on selected physical chemistry experiments related to topic taught in theory and quanlitative analysis of functional groups. |

**BSc – III (Sem-V)**

| Course No. | Course Title | Course Outcome |
|---|---|---|
| 1. | INORGANIC CHEMISTRY | To provide knowledge about transition metal complexes and their magnetic properties. |
| 2. | ORGANIC CHEMISTRY | To educate students about spectroscopy and organometallic compounds. |
| 3. | PHYSICAL CHEMISTRY | To impart basic understanding on quantum mechanics and spectroscopy. |
| 4. | CHEMISTRY PRACTICAL | To provide laboratory experience to student's topics related to synthesis of transition metal complexes. |

**BSc – III (Sem-VI)**

| Course | Course Title | Course Outcome |
|---|---|---|

| No. | | |
|---|---|---|
| 1. | INORGANIC CHEMISTRY | To provide knowledge about organometallic compounds, phosphazenes and bioinorganic compounds. |
| 2. | ORGANIC CHEMISTRY | To educate students about biomolecules, polymers and heterocyclic compounds. |
| 3. | PHYSICAL CHEMISTRY | To impart basic understanding on spectroscopy and photochemistry. |
| 4. | CHEMISTRY PRACTICAL | To provide laboratory experience to student's about conductometric and pH metric experiments. |

## B.SC FINAL YEAR (Sem 4th and 5th)

- NUCLEAR AND PARTICAL PHYSICS
- CONDENSED MATTER PHYSICS
- ELECTRONICS

**NUCLEAR AND PARTICAL**

Nuclear physics has very important role in medicines and military materials engineering industry,biology,geology and archeological with the help of nuclear physics we can study the elementary building ,blocks of matter radiations and their interactions

**CONDENSED MATTER PHYSICS**

The field of condensed matter physics explore microscopic and macroscopic properties of matter .condensed matter physics how to arise larger number of interacting particals,atoms and electrons.

**ELECTRONICS**

Electronis is the branch of physics which deals with the study of motion and control of electrons and study of their behaviourin vaccums ,semiconductor ans gasses

Electronis include thec working of diode ,semiconductor ,integrated circuit uses in this physics how to study various tiny transistor are connected in circuit

## B.SC SECOND YEAR (3RD AND 4TH SEM)

1. LASER OPTICS
2. QUANTUAM PHYSICS
3. STASTICAL AND THERMODYNAMICS PHYSICS

**LASER PHYSICS**

When electrons in the atoms in optical materials like glass ,crystal or gas they absorbe the energy from an electrical current or a light optical applications found in every aspects of our lives,far contacts lenses to fiber optics communications optics is study visibal light and way to use extend human vision and do other tasks….

***QUANTUAM PHYSICS***

Quantuam mechanical is an important tool for understand at the theoretical level the electronic structure of chemical compound and the mechanism thermodynamics…

*STASTICAL AND THERMODYNAMICS*

That theory uses molecular properties to predict the behavior of ,acroscopic quantities of compound of physical phenomena including light and the wave properties of matter including and atoms lights and sound are vibrations that move through space

**B.SC FIRST YEAR (SEM 1 AND 2$^{ND}$ )**

- WAVE AND VIBRATIONS
- ANALTICAL PHYSCIS
- ELECTRICITY AND MAGNETISM

***WAVE AND VIBRATIONS***

Wave and vibrationare extremely important phenomena in physics.in nature oscillations are found everywhere from the jiggling of atoms to larger atoms..wave properties of matter including electrons and atoms…

***ANALYTICAL PHYSICS***

Analytical mechanics is a subfield of mathematical physics which uses techniques of analysis,in particular the calcus of vibrations,to solve problems in mechanics..

***ELECTRICITY AND MAGNETISM PHYSICS***

Electricity and magnetism are two very important topics in the science of physics .we use electricityto power computerand to make motors .magnetism makes a compass point north and keeps stuck onto our refrigerators.

# B.Voc (Software Development) Ist SEM:

## BSDB1101T Communication Skills:

## Course Outcomes:

By the conclusion of this course, students will:

**COI.** Understand the role of communication in personal & professional success.

**COII.** Develop awareness of appropriate communication strategies.

**COIII**. Prepare and present messages with a specific intent.

**COIV.** Analyze a variety of communication acts.

**COV.** Ethically use, document and integrate sources.

### BSDB1102T Fundamentals of computer and Software development:

**Course Outcomes:**

Students will be able to:

**COI.** Understand computer basics.

**COII.** Understand programming basics.

**COIII.** Understand binary number system.

**COIV.** Begin using the Java programming language.

**COIV** Display output on the console.

**COVI.** Explain the differences between syntax errors, runtime errors, and logic errors.

### BSDB1103T Computer Programming Using C:

**Course Outcomes:**

After course completion the students will have the following learning outcomes:

**CO I:** Makes students gain a broad perspective about the uses of computers in engineering industry.

**CO II:** Develops basic understanding of computers, the concept of algorithm and algorithmic thinking.

**CO III:** Develops the ability to analyze a problem, develop an algorithm to solve it.

**CO IV:** Develops the use of the C programming language to implement various algorithms, and develops the basic concepts and terminology of programming in general.

**CO V:** Introduces the more advanced features of the C language.

## BSDB1104T Web designing using HTML and DHTML:

**Course Outcomes:**

After course completion the students will be able to::

**CO I.** Learn to build basic of the web designing using Markup language.
**CO II.** Understand the fundamental tags to easily grab the advance web programming languages.
**CO III.** Student become able to design, publish and retrieve the data in the databases.
**CO IV.** CSS style sheets and basic of server side programming.
**CO V.** Learn to build basic of the web designing using Markup Language.
**CO VI.** Understand the fundamental tags to easily grab the advance web programming languages.
**CO VII**. Student become able to design, publish and retrieve the data in the databases.
**CO VIII.** CSS style sheets and basic of server side programming.

## BSDB1105P Project I:

## Course Outcome:

Upon completion of this course, the student will be able apply technical knowledge and perform specific technical skills, including:

**CO I.** Describe the usage of computers and why computers are essential components in business and society.

**CO II.** Utilize the Internet Web resources and evaluate on-line e-business system.

**CO III.** Solve common business problems using appropriate Information Technology applications and systems.

**CO IV.** Identify categories of programs, system software and applications. Organize and work with files and folders.

**CO V.** Describe various types of networks network standards and communication software.

## BSDB1106L Software Lab-I (Based on B.VSD-113 and B.VSD-114):

## Course Outcome:

After course completion the students will have the following learning outcomes:

**CO I:** Develops basic understanding of computers, the concept of algorithm and algorithmic thinking.

**COII:** Develops the ability to analyze a problem, develop an algorithm to solve it.

**COIII:** Develops the use of the C programming language to implement various algorithms, and develops the basic concepts and terminology of programming in general.

**CO IV.** Build basic of the web designing using Markup Language.

**CO V.** Students will be able to understand the fundamental tags to easily grab the advance web programming languages.

**CO VI**. Student become able to design, publish and retrieve the data in the databases.

**CO VII.** Gain knowledge about CSS style sheets and basic of server side programming.

## BSDB1106L Language Lab-I:

## Course Outcomes:

By the conclusion of this course, students will:

**COI.** Understand the role of communication in personal & professional success.

**COII.** Develop awareness of appropriate communication strategies.

**COIII**. Prepare and present messages with a specific intent.

**COIV.** Analyze a variety of communication acts.

**COV.** Ethically use, document and integrate sources.

## B.Voc (Software Development) IInd SEM:

## BSDB1201T Fundamental Punjabi/ Elementary Punjabi:

**Course Outcomes:**

By the conclusion of this course, students will:

**CO I**. To develop a bonding with the mother tongue of the student.

**CO II**. The student gets to know and understand his/her native language in a far better way.

**CO III**. The student gains the knowledge and understanding of the various intricacies of the grammar and literature of Punjabi.

**CO I**V. The student gains the knowledge and understanding of the rich folk and cultural heritage of Punjab.

**CO V**. The program connects the students to their roots.

**CO VI**. Knowledge of Punjabi language helps them to think critically while studying Punjabi literature. They are able to relate pleasure of literature and real life

## BSDB1202T Fundamentals of DBMS:

**Course Outcomes:**

**CO I**. It will teach students about basic concepts DBMS (Database Management System) .

**CO II.** Through this students will learn about different data models, keys,

normalization, concurrency control, recovery of data and creation and

management of databases.

**CO III.** It will teach the students about the database security.

## BSDB1203T Fundamentals of Windows and server administration & Software lab-II(BSDB1205L):

## Course Outcomes:

After learning this course students will be able to:

**CO I.** Navigate the Windows 10 user interface

**CO II.** Create accounts in Windows.

**CO III**. Use the Start button and Start menu

**CO IV.** Access and use the Action Center

**CO V.** Work with apps and programs on the taskbar

**CO VI.** Customize settings in Windows 10, including backgrounds, screensavers, and more.

**CO VII.** Use administrative techniques and tools in Windows Server 2019.

**CO VIII.** Implement identity Services and Manage network infrastructure services.

**CO IX.** Configure file servers and storage.

## BSDB1204T Data Structure:

## Course Outcomes:

After learning this course students will be able to:

**CO I**: Classify different data structures such as stack, queues, linked list, trees and graphs

**CO II:** Analyze and implement various searching and sorting techniques

**CO III:** Implement linear and non-linear data structures

**CO IV:** Apply appropriate data structures to solve specific problems5

**CO V**: Evaluate algorithms and data structures in terms of time and space complexity of basic operations.

## BSDB1206L Software lab-III(based on BSDB-1204):

## Course Outcomes:

After completion of this course, students will be able to:

**CO I:** familiar with basic data structure and algorithms.

**CO II:** Design and analyze programming problem statements

**CO III:** Choose appropriate data structures and algorithms and use it to design algorithms for a specific problem.

**CO IV:** Handle operations like searching, insertion, deletion and traversing mechanism

**CO V:** Come up with analysis of efficiency and proofs of correctness

## BSDB1207L Language lab-II(based on BSDB-1201):

## Course Outcomes:

After completion of this course, students will be able to:

**CO I:** use keyboard layouts for Punjabi typing

**CO II:** Edit documents written in Gurumukhi Text.

**CO III:** recognize optical characters of Gurumukhi and can make conversions ASCII to Unicode

# B.Voc (Software Development)2nd Year:

# IIIrd SEM

### B.VSD-211 Discrete Mathematics:

**Course Outcomes:**

Students will be able to:

**CO I.**Write an argument using logical notation and determine if the argument is or is not valid.

**CO II.** Demonstrate the ability to write and evaluate a proof or outline the basic structure of and give examples of each proof technique described

**CO III**. Understand the basic principles of sets and operations in sets.

**CO IV.** Prove basic set equalities.

**CO V.** Apply counting principles to determine probabilities.

**CO VI.** Demonstrate an understanding of relations and functions and be able to determine their properties.

**CO VII.** Determine when a function is 1-1 and "onto".

**CO VIII.** Demonstrate different traversal methods for trees and graphs.

**CO IX.** Model problems in Computer Science using graphs and trees.

**B.VSD-212 Software Engineering:**

**Course Outcomes:**

On completion of this course, the students will be able to:

**CO I**: Understand the basic concepts, models, life cycle of software development.

**CO II**: Learn higher level concepts like Re-engineering, Reverse Engineering, Forward Engineering, and CASE tools.

**CO III:** Knowledge of all the steps of software engineering and their use and implementation in real problems

**CO IV:** Understanding of programming language and using it to develop software using all stages of software development.

**B.VSD-213 Programming with JAVA & B.VSD-215(Software Lab-IV):**

**Course Outcomes:**

After successful completion of the course, the students are able to

**CO I.** Use the syntax and semantics of java programming language and basic concepts of OOP.

**CO II.** Develop reusable programs using the concepts of inheritance, polymorphism, interfaces and packages.

**CO III.** Apply the concepts of Multithreading and Exception handling to develop efficient and error free codes.

**CO IV.** Design event driven GUI and web related applications which mimic the real word scenarios.

**B.VSD-214 Programming with C++ & B.VSD-216(Software Lab-V):**

**Course Outcomes:**

After completion of the course, students will able to:

**CO I:** Able to Understand OOPs Concept ,C++ language features. Able to Understanding and Applying various Datatypes, Operators,Conversions in program design.

**CO II:** Able to Understand and Apply the concepts of Classes &Objects,friend function , constructors &destructors in program design.

**CO III**: Able to Design & implement various forms of inheritance, String classs,calling base class constructors .

**CO IV:** Able to Apply & Analyze operator overloading, runtime polymorphism , Generic Programming.

**CO V:** Able to Analyze and explore various Stream classes, I/O operations and exception handling

**B.VSD – 217 SOFTWARE LABS – VI (Internet Lab):**

**Course Outcomes:**

The students will be able to:

**CO I.** Analyze a web page and identify its elements and attributes.

**CO II.** Create web pages using XHTML and Cascading Style Sheets.

**CO III.** Build dynamic web pages using JavaScript (Client side programming).

**CO IV.** Create XML documents and Schemas.

## B.Voc (Software Development) IV SEM:

**B.VSD - 221 FOREIGN LANGUAGE:**

**Course Outcomes:**

The students will be able to:

**CO I.** Communicate effectively in more than one language in order to function in a variety of situations and for multiple purposes

**CO II.** Interact with cultural competence and understanding

**CO III.** Connect with other disciplines and acquire information and diverse perspectives in order to use the language to function in academic and career-related situations

**CO IV.** Develop insight into the nature of language and culture in order to interact with cultural competence

**B.VSD-222**: **ENVIRONMENT STUDIES AND ROAD SAFETY AWARENESS**

**Course Outcomes:**

After completion of this course, students will be able to:

**CO I**: Understand the structure and function of an ecosystem and ecosystem links between environmental components and their role.

**CO II:** Recognize the importance of environment and the sustainable of natural resources.

**CO III:** Use scientific reasoning to recognize and comprehend environment issues and evaluate potential solutions.

**CO IV:** Well versed with environmental protection laws in India.

**CO V:** Understand the concept and significance of Road safety.

**B.VSD-223 WEB DEVELOPMENT USING PHP AND MYSQL:**

**Course Outcomes:**

After completion of this course, students will be able to:

**CO I:** List the major elements of the PHP & MySQL work and explain why PHP is good for web development.

**CO II:**Learn how to take static website and turn it into a dynamic website run from a database using PHP and MySQL.

**CO III:**Analyze the basic structure of a PHP web application and be able to install and maintain the web server, complie, and run a simple web application.

**CO IV:**Learn how databases work and how to design one, as well as how to use PHP MyAdmin to work with MySQL.

**CO V:**Learn different ways of connecting to MySQL through PHP, how to create tables, enter data, select data, change data, and delete data. Connects to SQL server and other data sources.

**B.VSD-224 CONTENT MANAGEMENT SYSTEM:**

**Course Outcomes:**

After completion of this course, students will be able to:

**CO I.** Appraise the role of content management technologies to organise and present web content.

**CO II.** Create and deploy websites using content management systems, including creating and editing content, creating custom templates or themes, and performing site management;

**CO III.** Examine installation and maintenance considerations for modern websites;

**CO IV.** Extend the functionality of content management systems with Web programming.

**B.VSD - 225 SOFTWARE LAB – VII (Based on B.VSD- 223 and 224):**

**Course Outcomes:**

After completion of this course, students will be able to:

**CO I.** Analyze the basic structure of a PHP web application and be able to install and maintain the web server, complie, and run a simple web application.

**CO II.** Learn how databases work and how to design one, as well as how to use PHP MyAdmin to work with MySQL.

**CO III.** Learn different ways of connecting to MySQL through PHP, how to create tables, enter data, select data, change data, and delete data. Connects to SQL server and other data sources.

**CO IV.** Examine installation and maintenance considerations for modern websites;

**CO V.** Extend the functionality of content management systems with Web programming.

**B.VSD - 226 PROJECT II - 3 Month Industrial Training:**

**Course Outcomes:**

After completion of this course, students will be able to:

**CO I.** Become updated with all the latest changes in technological world.

**CO II.** Ability to communicate efficiently.

**CO III.** Knack to be a multi-skilled engineer with good technical knowledge, management, leadership and entrepreneurship skills.

**CO IV.** Ability to identify, formulate and model problems and find engineering solution based on a systems approach.

**B.VSD - 227 LANGUAGE LAB-III ( Based on B.VSD -221):**

**Course Outcomes:**

After completion of this course, students will be able to:

**COI.** Better Understanding of nuances of language through audio- visual experience and group activities

**COII**. Neutralization of accent for intelligibility

**COIII.** Speaking with clarity and confidence thereby enhancing employability skills of the students.

## B.Voc (Software Development) V SEM:

**B.VSD-311 Presentation Skills and Personality Development:**

**Course Outcomes:**

After completion of this course, students will be able to:

**COI.** Perform well on social ground and become more creative, and analytical.

**COII.** Polishing manners to behave appropriately in professional circles.

**COIII.** Actively participate in group discussion / meetings / interviews and prepare & deliver presentations .

**COIV.** Become more effective individual through goal/target setting, self motivation and practicing creative thinking.

**COV.** Function effectively in multi-disciplinary and heterogeneous teams through the knowledge of team work, Inter-personal relationships, conflict management and leadership

**B.VSD-312 Management Information System**

**Course Outcomes:**

Upon completion of this course, students will be able to:

**COI.** Relate the basic concepts and technologies used in the field of management information systems.

**COII.** Compare the processes of developing and implementing information systems.

**COIII.** Outline the role of the ethical, social, and security issues of information systems.

**COIV.** Translate the role of information systems in organizations, the strategic management processes, with the implications for the management.

**COV**. Apply the understanding of how various information systems like DBMS work together to accomplish the information objectives of an organization.

**B.VSD-313 Web Development using ASP.Net and B.VSD-315 (Software Lab – VIII)**

**Course Outcomes:**

Upon completion of this course, students will be able to:

**CO-I**: Write, compile and debug programs using ASP.NET language.

**CO-II**: Knowledge and Use of different data types, operators, loops and other control structures in web programming.

**CO-III**: Design programs accepting user inputs and various other standard controls.

**CO-IV**: Understand the implementation of arrays, and events.

**CO-V**: Comprehend the concepts of classes and objects: declaration, initialization and implementation.

**CO-VI**: Apply the various rich web features like file uploads, debugging, caching and deploying ASP.NET pages et cetera.

**CO-VII**: Understand and learn the concepts related with ASP.NET security, localizing ASP.NET applications.

**CO-VIII**: Ability to develop programs to implement and use all the above specified concepts and features in programming.

**B.VSD-314 Software Testing Concepts and Tools and B.VSD-316(Software Lab – IX)**

**Course Outcomes:**

At the end of this course student will:

**COI.** List a range of different software testing techniques and statergies and be able to apply specific(automated) unit testing method to the projects.

**COII.** Distinguish characterstics of structural testing methods.

**COIII.** Demonstrate the integration testing which aims to uncover interaction and compatibility problems as early as possible.

**COIV.** Discuss about the functional and system testing methods.

**COV.** Demonstrate various issues for object oriented testing.

**B.VSD – 317 Workshop – Personality Development**

**Course Outcomes:**

At the end of this course student will:

**COI**. Be able to understand, analyze develop and exhibit accurate sense of self.

**COII.** Demonstrate knowledge of personal beliefs and values and a commitment to continuing personal reflection and reassessment.

**COIII.** Learn to balance confidence with humility and overcome problems associated with personality.

## B.VOC( Software Development) Third Year( Semester VI)

**6-month Industrial Training:**

**Course Outcome:**

At the end of this course student will be:

**COI**. Capable to acquire and apply fundamental principles of engineering.

**COII.** Become master in one's specialized technology

**COIII.** Become updated with all the latest changes in technological world.

**COIV.** Able to communicate efficiently.

**COV.** Knack to be a multi-skilled engineer with good technical knowledge, management, leadership and entrepreneurship skills.

**COVI.** Able to identify, formulate and model problems and find engineering solution based on a systems approach.

**COVII.** Capable and have enthusiasm for self-improvement through continuous professional development and life-long learning

**COVIII.** Aware of the social, cultural, global and environmental responsibility as an engineer.

## B VOC (FASHION TECHNOLOGY)

**Course outcomes (Semester-I)**

**Paper 1st(PUNJABI Compulsory)**

- To provide basic knowledge of Punjabi language.

**Paper 2nd(Communication Skills)**

- To provide basic knowledge of Communication Skills.

**Paper 3rd(Basic Computer Skills)**

- To provide basic knowledge of computer.
- to make aware about technology and networking.

**Paper 4th(Concept of Fashion)**

- To inform students about dress designing its meaning, origin and theory.

**Paper 5th(Textile Science)**

- To provide basic knowledge of FIBERS.
- To provide basic knowledge of different fabric.

**Paper 6th(Design Illustration)**

- To provide the knowledge of sketching and designing garments for various seasons.

**Paper 7th(Textile Science)**

- To enable the students to apply the practical knowledge of fibers.

## (2nd Semester)

**Paper 1st (PUNJABI Compulsory)**

- To provide basic knowledge of Punjabi language.

**Paper 2nd(Principles of Accounting)**

- To provide basic knowledge of accounts and information forms of business organization.

**Paper 3rd(Pattern making & Construction Technology)**

• To enable the students to draft, estimate and layout of garments.
•To provide basic knowledge of measurement method.

**Paper 4th(Textile Science)**

- To provide the knowledge of weaves.
- To provide the knowledge of types of finishing on fabric.

**Paper 5th(Fundamentals of Design)**

• To provide basic knowledge of colous as well as elements, principles, factor effecting dress designing.

**Paper 6th(Pattern Making and Construction Technology)**

• To provide basic knowledge of measurement method.

• To acquaint the students with basic terminology working as well maintenances of sewing machines. To inform the students about paper pattern and commercial use of pattern.

**Paper 7th(Garment Construction)**

- To learn various basic hand stitches and seams
- To acquire drafting skills for children's garments.

# B VOC 2nd YEAR

## Course outcomes (Semester-III)

**Paper 1st (STATISTIS)**

- It introduces descriptive statistics, probability distributions (both discrete and normal), confidence intervals, hypothesis testing, and correlation. Real-world applications are offered and computer statistical software may be used.

**Paper2nd (KNITTING TECHNOLOGY )**

- To provide full knowledge of knitting, felting, bonding, knotting.

**Paper3rd ( IINDIAN TRADITIONAL TEXTILES & EMBROIDERIES)**

- To provide the knowledge about woven textiles of India.
- To provide the knowledge about traditional embroideries of different region of India.

**Paper4th ( PRINCIPAL OF MARKETING)**

- This course will cover the marketing of fashion apparel from the development of the product line and distribution of this line through various channels of distribution to the purchase by the targeted consumer. Advertising and promotional strategies that will educate and attract that consumer to purchase this apparel line will also be covered.
- Studies history and development of the retail function and its relationship to the wholesaler and manufacturer. Topics include store management, the buying function, elements of style and fashion, pricing policies, customer relations, store location, and sources of supply. Examines retail mathematics including markup, markdown, and turnover.

**Paper5th (TEXTILE INDUSTRIAL TRAINING)**

- Actual work experience.
- Network with professionals.
- Field Experimentation.

**Paper6th (IINDIAN TRADITIONAL TEXTILES & EMBROIDERIES LAB)**

- To provide the practical knowledge about traditional embroideries of different region of India.

**Paper7th (OFFICE OPERATION AND PRESENTATION LAB)**

- To provide the practical knowledge about MS-word, MS-Excel, MS-Power point.

**Paper8th ( BASIC OF KNITTING TECHNOLOGY-LAB)**

- To provide the practical knowledge about hand knitting, machine knitting.

## Course outcomes (Semester-IV)

**Paper 1st( PUNJABI COMPULSORY)**

- To provide the knowledge of Punjabi compulsory.

**Paper 2nd ( GARMENT PRODUCTION MANAGEMENT)**

- To inform students about Organizational structure of Apparel Industry.

**Paper 3rd ( PERSONALITY DEVELOPMENT AND COMMUNICATION SKILL)**

- To develop THE COMMUNICATION skill.
- To provide basic knowledge of Personality and Self Concept.

**Paper 4th ( HISTORY OF INDIAN COSTUMES)**

- To provide basic knowledge of Indian costumes.

**Paper 5th ( DRAPING METHOD)**

- To provide the knowledge about basics method of draping in garments as well as methods for taking measurement.
- To notify the students about standard blocks for patterns.

**Paper 6th ( COTHING CONSTRUCTION TECHNIQUES LAB)**

- To acquaint students with different techniques used in various garment construction.
- To enable students to obtain harmony between the pattern and design of the garment.

**Paper 7th ( COMPUTER AIDED FASHION DESIGNING-1)**

- Software can help students draw, create woven textures, drape models to create patterns, adjust sizes and even determine fabric colors.

**Paper 8th ( ENVIRONMENTAL & ROAD SAFTETY AWARENESS)**

- To provide basic knowledge of environment.
- To provide basic knowledge of traffic signs.

B VOC FT 3rd Year

Course outcomes (Semester-5)

Paper 1st (Fashion Marketing)

- CO1 To develop the skill of fashion marketing.

Paper 2nd (History of World Costumes)

- CO1 To enable the students to apply the theoretical knowledge of development of textile industry in ancient civilizations.
- CO2 To inform the student about different types of Embroidered Textiles, Resist Dyed Textiles, Hand painted Textiles, Printed Textiles.

Paper 3rd (PERSONALITY & CLOTHING)

- CO1To provide basic knowledge of Personality and Self Concept.
- CO2To provide basic knowledge of types of body.

Paper 4th (Apparel Manufacturing Industry)

- CO1To enable the student to understand the concept of DRAFTING.
- CO2To enable the student to develop skills in garment construction for commercial .

Paper 5th (Drafting With Layout & Garment Construction)

- CO1 To provide basic knowledge of measurement method.
- Co2 To enable students to obtain harmony between the pattern and design of the garment.

Paper 6th (Computer Aided Fashion Design)

- CO1 It can create unique designs, visualize them better, make edits easily, synthesize them into 2D and 3D designs.
- CO2 Using CAD software, a fashion designer can develop new sketches, patterns, varieties of prints more quickly and accurately.

Paper 7th (Accessory Design and Construction)

- CO1 To enable the student to develop skills in Fashion accessories.
- CO2 This is aimed to help students visualize and create lifestyle accessories and systems using different materials, processes and technologies.

Paper 8th (Fashion Design Construction)

- CO1 To enable the students to apply the theoretical knowledge in production of garments independently.

(Semester-6)

- CO1 Entrepreneurs provide job opportunities

- CO2Entrepreneurs increase competition & boost productivity
- CO3Entrepreneurs create new business & new markets
- CO4Entrepreneurs introduce innovative technologies

## Course outcomes (Semester-I)

- **Paper 1st ( FABRIC SCIENCE):**

• **CO1:** To provide basic knowledge of FIBERS.

• **CO2:** To provide basic knowledge of different fabric.

- **Paper 2nd (Garment Production Management):**

• **CO1:** To inform students about Organizational structure of Apparel Industry.

- **Paper 3rd (CONSUMER BEHAVIOR)**

• **CO1** To provide the knowledge about Personality.
• **CO2** To provide the knowledge about consumer behavior.

- **Paper 4th ( home textile)**

• **CO1** Increase the student creativeness in decorating the home products.
• **CO2** To enable the student to understand the progression of product design.

- **Paper 5th ( TEXTILE DESIGN DEVELOPMENT)**

• **CO1** To make students understand and apply the knowledge of principle and elements of art in designing.
• **CO2** To enable the student to understand the concept of creating design.

- **Paper 6th (PATTERN MAKING AND CONSTRUCTION TECHNIQUES )**

• **CO1** To enable the students to draft, estimate and layout for children garments.
• **CO2** To provide basic knowledge of measurement method.

- **Paper 7th (SEMINAR)**

• **CO1** To enable the students to understand basic fashion concepts.
• **CO2** To create awareness amongst students regarding current trends related to fashion field.

## Course outcomes (Semester-II)

**Paper 1st (TEXTILE WET PROCESSING)**

• **CO1** To enable the students understand about textiles dyeing and printing
• **CO2** To enable the students understand about textiles finishing.

- **Paper 2nd (RESEARCH METHODOLOGY)**

- CO1To understand the methodology of research.
- CO2To develop skill in conducting research from planning a study to report writing.

➢ **Paper 3rd ( COMMUNICATION SKILL)**

- CO1To develop COMMUNICATION skill.

➢ **Paper 4th (TEXTILE WET PROCESSING )**

- CO1To know the difference between dyeing and printing.
- CO2 Understand the different methods of transferring the designs on fabric.

➢ **Paper 5th (FASHION ILLUSTRATION)**

- CO1 To provide the knowledge of sketching and designing garments for various seasons.

➢ **Paper 6th (ADVANCE APPAREL CONSTRUCTION)**

- To enable the student to understand the concept of DRAFTING.
- To enable the student to develop skills in garment construction for commercial.

## Semester-III

**Course Outcomes (COs):**

**Fashion Marketing and Merchandising**

- CO: 1 To develop an insight among students in Fashion Markets
- CO: 2. To acquaint the students with the importance of marketing and principles ofmarketing in the fashion apparel market.

- CO: 3 Understanding the process and organizational structure of fashionmerchandising.
- CO: 4. Capacity to relate to what was learnt in the class room to the industry

**Statistics:**

CO: 1 To acquaint students with knowledge of CAD based application in fashiondesigning

**Research Methodology:**

- CO: 1 To give an insight about Research and its types, objectives, methodology.
- CO: 2 To understand the importance and relevance of research in the field of fashion designing and various parameters of research.

**Computer Application in Fashion Design-I(Practical):**

- CO: 1 Application of tools of Coral Draw and Photoshop for making design compositions for textiles and apparel
- CO: 2. To enable students to develop textures and patterns using CAD soft wares

**Course Outcomes (COs): Fashion Draping & Custom Clothing (Practical)**

CO: 1 To enable students to understand design through draping techniques
CO: 2 To enable the students to understand garment detailing and to incorporatethat know
CO: 3 To develop structured garment using draping techniques
CO: 4 To enable students for creating styles of draped garments manipulating the basic set
CO: 5. Create innovative styles of clothes by draping

**Course Outcomes (COs): Textile Traditions of India (Practical)**

CO: 1 To acquaint the students to the world of rich and glorious Textiles and crafts of India.
CO: 2 To identify Textile crafts traditions used in a different regions of India byvarious communities.

**Semester-IV**

**Garment Production Management and Entrepreneurship**

CO: 1.To acquaint the students with structure of apparel industry..
CO:2. To make the students aware of the working of various departments of garment industry
CO: 3 To expose the students to the latest practices and technological world ofgarment production
CO: 4 To enhance entrepreneurial skills.
CO 5 To develop an understanding of governments role in entrepreneurship.

**Course Outcomes (COs): World Textiles**

CO: 1. To acquaint the students with the history and evolution of World Textiles.
CO: 2 To study the important textile arts in their historical perspective.
CO: 3 To create awareness and nurture appreciation of textile masterpiece of theworld
CO: 4 to understand the principles ofConservation and Restoration of textiles

**Course Outcomes (COs): Intro to Green Fashion**

CO: 1 To acquaint the students with the importance of designing for sustainability
CO: 2. To provide knowledge of current sustainable technologies, materials and design innovation

**Course Outcomes (COs): Design Studies (Practical)**

CO: I To develop skills of apparel designing through a project on garment designing for the fashion shows..

**Course Outcomes (COs): Computer Application in Fashion Design-II (Practical)**

CO: 1 To acquaint the students with the use & application of design elementslike Lines, Shapes, Texture & color to form a good design with CAD

**Course Outcomes (COs): Entrepreneurship (Practical)**

CO: 1 To make students aware regarding current trends, issues and researches related to various aspects of Textiles.

CO: 2 To gain practical experience in different units of textiles.

# M.Sc IT Ist year(Ist Sem)

## MS-111 Introduction to Information Technology:

**Course Outcomes:**

**CO I:** Familiarization with the types of computer, peripheral devices, memory management, multimedia and number system.

**CO II:** Learn about working of various input and output devices.

**CO III:** Learnt about binary number representation along with its operations.

**CO IV:** Understand theoretical framework of internet and associated application of the internet.

**CO V:** Acquire the knowledge about the binary number representation along with its operations.

**CO VI:** Understand of the role of computers in business, education and society.

## MS-112 Computer Programming using C:

**Course Outcomes:**

**CO I:** Makes students gain a broad perspective about the uses of computers in engineering industry.

**CO II**: Develops basic understanding of computers, the concept of algorithm and algorithmic thinking.

**CO III:** Develops the ability to analyze a problem, develop an algorithm to solve it.

**CO IV:** Develops the use of the C programming language to implement various algorithms, and develops the basic concepts and terminology of programming in general

**CO V**: Introduces the more advanced features of the C language

## MS-113 Computer Organization and Architecture:

**Course Outcomes:**

**CO I.** Understand the theory and architecture of central processing unit.

**CO II.** Analyze some of the design issues in terms of speed, technology, cost, performance.

**CO III.** Design a simple CPU with applying the theory concepts.

**CO IV.** Use appropriate tools to design verify and test the CPU architecture.

**COV.** Learn the concepts of parallel processing, pipelining and interprocessor communication.

**CO VI.** Understand the architecture and functionality of central processing unit.

**CO VII.** Exemplify in a better way the I/O and memory organization. 8. Define different number systems, binary addition and subtraction, 2's complement representation and operations with this representation.

## MS-114 Mathematical Foundation of Computer Science:

**Course Outcomes:**

After successful completion of course the student should be able to

**CO I.** Know how to represent various statements using quantifiers, relations, functions, permutations and combinations, groups, graphs and trees

**CO II.** Use logical notations to formulate and reason about fundamental mathematical concepts such as sets, relations, functions and algebraic structures

**CO III.** Analyse the growth of functions and real world problems using various concepts like recurrence relations, graph coloring, etc.

**CO IV.** Apply mathematical logic to solve problems, pigeonhole principle to solve real time problems, CO V. Model and solve real world problems using graphs and trees.

## MS-115 Operating Systems:

**Course Outcomes:**

**CO I.** To understand the services provided by and the design of an operating system.

**CO II.** To understand the structure and organization of the file system.

**CO III.** To understand what a process is and how processes are synchronized and scheduled.

**CO IV.** To understand different approaches to memory management.

**CO V**. Students should be able to use system calls for managing processes, memory and the file system.

**CO VI.** Students should understand the data structures and algorithms used to implement an OS.

## MS-116 Programming Lab – I:

**CO I:** Makes students gain a broad perspective about the uses of computers in engineering industry.

**CO II:** Develops basic understanding of computers, the concept of algorithm and algorithmic thinking.

**CO III:** Develops the ability to analyze a problem, develop an algorithm to solve it.

**CO IV:** Develops the use of the C programming language to implement various algorithms, and develops the basic concepts and terminology of programming in general

**CO V:** Introduces the more advanced features of the C language

## M.Sc IT 2nd Sem

## MS-121 Object Oriented Programming Using C++:

**Course Outcomes:**

After completion of the course, students will able to:

**CO I**: Understand OOPs Concept ,C++ language features. Able to Understanding and Applying various Datatypes, Operators,Conversions in program design.

**CO II:** Understand and Apply the concepts of Classes &Objects,friend function , constructors &destructors in program design.

**CO III**: Design & implement various forms of inheritance, String classs,calling base class constructors .

**CO IV**: Apply & Analyze operator overloading, runtime polymorphism , Generic Programming.

**CO V**: Analyze and explore various Stream classes, I/O operations and exception handling.

## MS-122 Data and File Structures:

**Course Outcomes:**

**CO I**: Classify different data structures such as stack, queues, linked list, trees and graphs

**CO II:** Analyze and implement various searching and sorting techniques

**CO III:** Implement linear and non-linear data structures

**CO IV:** Apply appropriate data structures to solve specific problems3

**CO V**: Evaluate algorithms and data structures in terms of time and space complexity of basic operations.

## MS-123 Visual Basic:

**Course Outcomes:**

After the completion of the course, Students will be able to

**CO I.** Understand the programming algorithm, process, and structure

**CO II.** Understand and identify the fundamental concepts of object-oriented programming

**CO III.** Understand and use the concepts of objects, primitive value, message, method, selection control structure, repetition control structures, object reference, container, and method parameter

**CO IV.** Know how to write and run a complete program

**CO V.** Understand and identify the importance of object-oriented programming for the Internet based electronic commerce

**CO VI.** Understand the impact of Java and VB.NET on business

## MS 124 RDBMS and Oracle:

**Course Outcomes:**

In this course, the learners will be able to develop expertise related to the following: -

**CO I.** Develop a broad understanding of database concepts and database management system software, data models, schemas and instances, data constraints, relational algebra, and calculus.

**CO II.** Acquire Knowledge to model an application's data requirements using conceptual modeling tools like ER diagrams and design database schemas based on the conceptual model.

**CO III.** Be able to write SQL and PL/SQL commands to create and manipulate database objects.

**CO IV.** Be able to discuss importance of normalization and improve the database design by applying various normal forms.

**CO V.** Get in depth knowledge of concurrency control mechanisms, transaction management techniques and database security.

## MS 125 Programming Lab – II:

**Course Outcomes:**

On completion of this course, the students will be able to:

**CO I:** Design, create, build, and debug Visual Basic applications.

**CO II**: Explore Visual Basic's Integrated Development Environment (IDE).

**CO III:** Write and apply decision structures for determining different operations.

**CO IV**:Understand and identify the fundamental concepts of object-oriented programming.

**CO V**: Perform tests, resolve defects and revise existing code.

## MS 126 Programming Lab – III:

**Course Outcomes:**

On completion of this course, the students will be able to:

**CO I**: Gain the knowledge and understanding of Database analysis and design.

**CO II**: Understand the use of Structured Query Language(SQL) and learn SQL syntax.

**CO III**: Gain the knowledge of the processes of Database Development and Administration using SQL and PL/SQL.

**CO IV**: Understand and apply the concept of functional dependencies to design the database

**CO V**: Understand and apply the concept of Transaction and Query processing

# Msc IT 2nd Year ( 3rd SEM)

## MS 211-Web technology & MS-215 : Programming Lab-IV (Web Technology):

**Course Outcomes:**

On completion of this course, the students will be able to:

**CO I:** Learn and use the knowledge of web publishing and technologies related with the website development.

**CO II:** Learn client side and server side programming using Java Script and PHP

**CO III:** Apply the knowledge of website development to design and publish website individually and as a team member.

**CO IV:** Upgrade the knowledge by learning new technologies and languages used for website development.

## MS-212: Java Programming & MS-216 : Programming Lab-V (Java Programming) :

**Course Outcomes:**

**CO I**: Learn the Object Oriented Programming concepts to write compile and debug programs using Java language.
**CO II:** Apply the concepts of object oriented programming like polymorphism, inheritance, Exception Handling, and Multithreading.
**CO III:** Design and develop console and GUI applications using Java Programming Language.
**CO IV:** Work on programming project as individual or as team member is design, development and implementation phase.

## MS-213 : Software Engineering :

**Course Outcomes:**

On completion of this course, the students will be able to:
**CO I**: Understand the basic concepts, models, life cycle of software development.
**CO II**: Learn higher level concepts like Re-engineering, Reverse Engineering, Forward Engineering, and CASE tools.
**CO III:** Knowledge of all the steps of software engineering and their use and implementation in real problems
**CO IV:** Understanding of programming language and using it to develop software using all stages of software development.

## MS-214 : Computer Networks :

**Course Outcomes:**

On completion of this course, the students will be able to:

**CO I:** On completion of this course, the students will be able to:

**CO II:** Understand the basic concepts, types of networks, OSI, ans TCP/IP models with working of all the layers in detail

**CO III**: Learn and understand the working of different hardware components used in networking and various communication protocols

**CO IV:** Learn and understand various issues involved in network security, and methods used to implement network security.

## Msc IT 2nd YEAR ( 4th sem)

### MS-221 Computer Graphics:

### Course Outcome:

**CO I.**Understand the basics of computer graphics, different graphics systems and applications of computer graphics.

**CO II.** Discuss various algorithms for scan conversion and filling of basic objects and their comparative analysis.

**CO III.** Use of geometric transformations on graphics objects and their application in composite form.

**CO IV.** Extract scene with different clipping methods and its transformation to graphics display device.

**CO V.** Explore projections and visible surface detection techniques for display of 3D scene on 2D screen.

**CO VI.** Render projected objects to naturalize the scene in 2D view and use of illumination models for this

### MS-222 Linux Administration & MS-226 : Programming Lab-VII (LINUX Administration):

### Course Outcome:

**CO I:** Install and configure Linux operating system and understand the basic set of commands and working of editors in Linux.

**CO II:** Understand and work with Linux file system through terminal and GUI interface

**CO III:** Discuss various types of commands and variable used in shell programming and write simple shell programs in Linux operating system

**CO IV:** Demonstrate the role and responsibilities of a Linux system administrator and make use of server commands

## MS-223 Research Methodology:

## Course Outcome:

**CO I:** Develop the ability to apply the methods while working on a research project work

**CO II:** Describe the appropriate statistical methods required for a particular research design

**CO III:** Choose the appropriate research design and develop appropriate research hypothesis for a research project

**CO IV:** Develop a appropriate framework for research studies

## MS-224 Artificial Intelligence:

## Course Outcome:

**CO I:** Solve basic AI based problems.

**CO II**: Apply basic principles of AI in solutions that require problem solving, inference, perception, knowledge representation, and learning.

**CO III**: Demonstrate awareness and a fundamental understanding of various applications of AI techniques in intelligent agents, expert systems, artificial neural networks and other machine learning models.

**CO IV**: Demonstrate proficiency developing applications in an 'AI language', expert system shell, or data mining tool.

**CO V:** Demonstrate proficiency in applying scientific method to models of machine learning.

**CO VI:** Demonstrate an ability to share in discussions of AI, its current scope and limitations, and societal implications.

# HISTORY DEPARTMENT

**Outcomes of history Subject:**

## M.A I

## Sem-I

## Paper-I

### HISTORY OF PUNJAB 1469-1675:-

1. The students will understand the importance of the Sikh history of Punjab.
2. They will learn how the changes have come during Guru period.
3. They will learn about origin of Sikh religion.
4. They will also understand the Philosophy of Gurus from Guru Nanak to Guru Teg Bahadur.
5. The student will learn compilation of adigarh, Language, Script arrangement of material contents and its significance.

## Paper-II

### HISTORY OF THE WORLD-1500-1815

1. The students from this paper will learn about same significant events of world such as renaissance, Reformation, American Revolution, and Industrial Revolution.
2. This paper is focused on the great French Revolution in 1789.
3. The students come to know about the emergence of Napoleaon Bonaparte in Europe and his ward and down fall.
4. Students will also learn about Vienna Congress and his aims. Principles and work.

## Paper II

## HISTORY OF WORLD 1815-1870

1. From this paper students come to know about Metternich System, French Revolution of 1830 and 1848.
2. Students will learn about second Republic in France. Nepoleon III. Growth of parliamentary System in England. Acts of 1832 and 1867 Socialist, and labour movements in Europe.
3. From this paper students will learn about Germany and Italian Unification. Eastern Question Greek War of Independence and Crimean War.

## Paper -III

## HISTORY OF WORLD 1919 – 1991

1. The great Economic Depression of 1929 Fascism and Nazism and the origin of World War II all these important issues are in corporate in this paper.
2. Students will gather knowledge about the impact of Second World War on the International system like cold War non alignment. UNO, process of disintegration of the USSR and its impact.
3. Students will also learn about the Chinese revolution of 1949 and its significance. Arab nationalism, transformation of turkey under Mustafa kernel Pasha. Isreal Palestine problem.

## PAPER-IV

## THEORY AND RESEARCH METHOLOGY:

1. Student will know about the method of writing history.
2. Students have understood concepts of historiography and its different perspective.
3. Student have understood basic of research do's and don't's and its mythology.
4. Students have understood the difference between primary and secondary sources and importance of source.
5. Students will understand historical approach of Hegal and Marx.

## Paper-III

## HISTORY OF THE WORLD -1871-1919

1. From this paper students will learn about Bismark Diplomacy.

2. Students will also learn about different alliances from 1871 to 1919. which was responsible for first World War.
3. New Imperialism, Partition of Africa and its Significance. Imperialism in East Asia. Battle of concessions, open door policy and these important issues are in corporate in this paper.
4. Students will gather knowledge about the causes and impact of First World War and peace settlement and treaty of Versailles.

## Sem-II

## Paper-I

## HISTORY OF PUNJAB 1675-1799

- From this paper Students will gather knowledge about Guru Gobind Singh's relation with the hill Rajas and Mugals.
- Student will also learn about creationof the Khalsa circumstances and importance, estimate of the work and personality of Guru Gobind Singh.
- Banda Bahadur. Sikh Afghan Struggle, Dal Khalsa, Gurmatta, Rakhi System and misals and its Nature, Civil Military Organization will also discussed in this paper.

**Paper 2nd**

- It will develop the basic Understanding about the World History among the students.
- Students will learn about the societies, ideologies, government culture and technologies.

**Paper 3rd**

- CO1 To understand the causes of Great Depression and its Impact.
- CO2 Students will learn about the causes of Second World War and its Impact.
- CO3 To study the role of U.N.O and its aims, objectives.

**Paper 4th**

- CO1 To explore the scope and nature of the history.
- CO2 To understand the writing skills of history and role of historian.
- CO3 It will connect the students with the necessities of research ethics.

## MA-II HISTORY

### Course Outcomes (Semester-III)

**Paper 1st**

- CO1 It will explore the history of Maharaja Ranjit Singh's reign without missing the annexation of Punjab.
- CO2 To understand the various aspects of Punjab under the Maharaja Ranjit Singh.

**Paper 2nd**

- CO1 It will explore the coming of British colonialism in India and decline of Mughal Empire will be attached.
- CO2 To understand the Collapse of Mughal Empire and Emergence of regional states of Awadh, Bengal and Hyderabad.
- CO3 To study the establishment of the British Empire and rule in the Bengal Presidency.

**Paper 3rd**

- CO1 Students will be enable to understand the history of India under the British rule.
- CO2 It will explore the various policies of the British govt in India like trade and commerce, land revenue policies etc.
- CO3 Students will understand about the revolt of 1857 and its impact on the freedom struggle of India.

**Paper 4th**

- CO1 Students will comprehend the formation of Indian National Congress (1885) and its role in the freedom struggle of India.
- CO2 It will enable to understand the massacre of Jallianwala Bagh and its importance for the struggle for Independence.
- CO3 To explore the role of Mahatma Ghandi and their movements.

### Course Outcomes (Semester-IV)

**Paper 1st**

- CO1 It will articulate about the Punjab's history.
- CO2 Students will understand its annexation by the East India Company.
- CO3 It will unfold the past aspects of Punjab's relation with the British Empire.

**Paper 2nd**

- CO1 Students will be enable to understand the history of India under the British rule.
- CO2 It will impart the information about the British Administration in
- CO3 India and especially the period of Cornwallis, Wellesley and Lord Hastings will be discussed.
- CO4 To Assess the British Policy towards Indian States with special reference to Corn wallis,Wellesley and Lord Hastings.

**Paper 3rd**

- CO1 Students will be enable to understand the history of India under the British rule with special reference to impact of western ideas and education on India.
- CO2 It will explore the Commercialization of Agriculture under the British govt in India and also sketched the trade and commerce, land revenue policies etc.
- CO3 Students will understand about the Social and Economic effects of British rule in India and economic drain as a factor affecting the economic nationalism in India.

**Paper 4th**

- CO1 To explore the role of Mahatma Ghandi and their movements.
- CO2 Students will understand about the contribution of Indian National Army and Role of Subhas Chandra Bose in its formulations.
- CO3 It will also examine the circumstances leading to the Partition of India.

**COURSEOUTCOMES**
**MAPunjabi**
**SEM-I**

**Paper-I History of Punjabi Literature (Core Course)**
CO: Literature written in Punjabi language is called Punjabi literature. Throughout the history of Punjabi, literature reveals unrest, political uncertainty, moral and religious decline and various movements and agitations. Through literature, students get information about the events of human life, literary aspects from time immemorial to the present, critical vision.

**Paper-II Sahit Alochna De Sidhant (Bharti Kav Shastar) (Core Course):**
**CO:** Literary theories are needed to examine literature. Without this no literary work can be studied in depth. Therefore, under this subject, students are given a detailed study of Indian literary theories.
In this semester studies the literary theories of Sanskrit scholars (Ras Siddhant, Sadharanikaran, Vakrokti, Alankar, Riti, Dhuni and Auchitya). Apart from this, the merits and limitations of the critique of early Punjabi critics are analyzed and the principle of meta critique is also introduced.

**Paper-III Punjabi Natak (Option-I) (Elective Course)**
CO1 Natak is considered as a mirror of contemporary society. Similarly modern Punjabi Natak also represents the problem of modern Punjabi society.
CO2 It will connect the students with the Punjabi culture and problems of the society.

**Paper-IV Adhunik Punjabi Kav (Option-I) (Elective Course)**
**CO:** Literature is considered the mirror of contemporary society. Similarly modern Punjabi poetry also represents the problem of modern Punjabi society. The purpose of teaching this subject is to make the students aware of every social and cultural issue of modern times. Students also get pleasure from reading this subject which relieves them from mental stress.
In this semester, students learn about the definition of poetry, elements of poetry, ideology of poetry, practical study of poetry, Prof. Puran Singh, Prof. Mohan Singh, Bawa Balwant and Amrita Pritam's poetry concerns, ideology and art aspects.
**Paper- V Adhunik Punjabi Galap (Option-II) (Elective Course)**
**CO:** Adunik Punjabi Galp is to inculcate interest of students towards Punjabi Literature. Punjabi novels that are a major part of literature are taught in the 1st semester of this course. Novels are the written works in which the readers are

familiarized with harsh realities of life as the novels are a life story written by a writer. This helps in broadening the horizon of the students and living a better life.

## SEM-II

**Paper-I** History of Punjabi Literature (Core Course)
CO: Literature written in Punjabi language is called Punjabi literature. Throughout the history of Punjabi, literature reveals unrest, political uncertainty, moral and religious decline and various movements and agitations. Through literature, students get information about the events of human life, literary aspects from time immemorial to the present, critical vision.

**Paper- II Sahit Alochna De Sidhant (Pashmi Kav Shastar) (Core Course)**:
**CO1:** Literary theories are needed to examine literature. Without this no literary work can be studied in depth. Therefore, under this subject, students are given a detailed study of Western literary theories.
**CO2:** Greco-Roman literary theories (Imitation theory, Catharsis, and Tragedy), Western literary theories (Marxism, New-Marxism, Psychoanalysis, Structuralism, Post-Structuralism, Modernism, Postmodernism, Feminism, Existentialism etc.) and the achievements and limitations of the critique of prominent Punjabi critics are examined.

**Paper-III Punjabi Natak (Option-I) (Elective Course)**
**CO1:** Natak is considered as a mirror of contemporary society. Similarly modern Punjabi Natak also represents the problem of modern Punjabi society.
**CO2:** It will connect the students with the Punjabi culture and problems of the society.

**Paper- IV Adhunik Punjabi Kav (Option-I) (Elective Course)**

**CO:** Literature is considered the mirror of contemporary society. Similarly modern Punjabi poetry also represents the problem of modern Punjabi society. The purpose of teaching this subject is to make the students aware of every social and cultural issues of modern times. Students also get pleasure from reading this subject which relieves them from mental stress.
In this semester, students are taught about metaphorical song, ghazal, narrative poetry etc. In addition, a critical study of Punjabi poets Shiv Kumar Batalvi, Surjit Patar, Jagtar and Pash's poetry are conducted.

**Paper- V Adhunik Punjabi Galap (Option-II) (Elective Course)**
**CO:** Adunik Punjabi Galp is to inculcate interest of students towards Punjabi

Literature. Story part of the literature is taught in the 2nd semester of this course. Main objective of this subject is to attach the students with Punjabi literature. Real picture of life is drawn in these stories which help the students to face the hazards of life with positive attitude.

## SEM-III

**Paper-I Bhasha Vigyan ate Punjabi Bhasha (Core Course)**
**CO1:** It will shed a light on the Bhasha Vigyan ate Punjabi Bhasha.
**CO2:** Students will get knowledge about the various aspects of Bhasha Vigyan.

**Paper-II Sabhyachar ate Punjabi Sabhyachar (Core Course)**
**CO1:** It will shed a light on the Sabhyachar ate Punjabi Sabhyachar.
**CO2:** Students will get knowledge about the various Punjabi Sabhyachar.

**Paper-III Gurmat Kav (Option-I) (Elective Course)**
**CO:** The subject of Gurmat Kav inspires the students to rise above caste, religion, race, gender and regionalism for the betterment of the whole of humanity and helps in overcoming their mental disorders. It also connects them to Indian philosophy.
In this semester, students are introduced to Indian Philosophy, GurmatSidhant, keemtSidhant and the Bani of the entire Banikars of the Guru Granth Sahib. Bani of every Guru's is thoroughly studied.

**Paper- IV Punjabi Vartak - (Option-I) (Elective Course)**
**CO:** Prose literature is just as popular as any other literary form. Prose is a medium for any literary writer to express his personal experiences in words. It comes into being after the study, the test, the human intellect has reached a certain level. As the subjects of Vartak are connected with social life, they become the right guides for the students, who help in uplifting the society. The main motive of literature is to inspire the reader.

**Paper- V Sufi ate Bir kav - (Option-I) (Elective Course)**
**CO:** Punjabi Sufi poetry is a glorious asset to Punjabi literature, history and culture. Punjabi Sufi poets, being Muslims, also liked Punjab, Punjabi and Punjabiat. That is why Sufi poets expressed their views in Punjabi. Through this literature, students get a chance to connect with the community, nature and humanity. Every social aspect is discussed in Sufi poetry. The geographical location of the Punjab gave rise to heroism among the Punjabis and it gave birth to Bir Ras in Punjabi literature. Varas have been created from time immemorial, which has created excitement among the people here.

## SEM-IV

**Paper-I Bhasha Vigyan ate Punjabi Bhasha (Core Course)**
**CO1** It will inspires the students to rise above caste, religion, race, gender and regionalism for the betterment of the whole of humanity and helps in overcoming their mental disorders. It also connects them to Indian philosophy.

**Paper-II Lokdhara ate Punjabi Lokdhara (Core Course)**
COI It will explore the various aspects of the Lokdhara ate Punjabi Lokdhara to the students.

**Paper-III Gurmat Kav (Bhagat Bani Adhyan Option-I) (Elective Course)**
CO: The subject of Gurmat Kav inspires the students to rise above caste, religion, race, gender and regionalism for the betterment of the whole of humanity and helps in overcoming their mental disorders. It also connects them to Indian philosophy. In this semester, a comprehensive study of the entire Bani of Baba Sheikh Farid, Bhagat Namdev, Bhagat Ravidas and Bhagat Kabir Ji recorded in Adi Granth is conducted.

**Paper-IV-Adhunik Punjabi Vartak (Option-I) (Elective Course)**
**CO**: Prose literature is just as popular as any other literary form. Prose is a medium for any literary writer to express his personal experiences in words. It comes into being after the study, the test, the human intellect has reached a certain level. As the subjects of Vartak are connected with social life, they become the right guides for the students, who help in uplifting the society. The main motive of literature is to inspire the reader.

**Paper-V-Kissakav(Option-I)(Elective-Course)**
**CO1** It will explore more about the Kissakav and Punjabi literature.
**CO2** It will connect the students with social life.

# PGDCA SEM 1st:

## Fundamentals of IT:

**COURSE OUTCOMES:**

At the end of this course, student should be able to

**CO I.** Understand basic concepts and terminology of information technology.

**CO II.** Have a basic understanding of personal computers and their operations.

**CO III.** Be able to identify issues related to information security

## Operating System:

**COURSE OUTCOMES:**

**CO 1.** Understand fundamental operating system abstractions such as processes, threads, files, semaphores, IPC abstractions, shared memory regions, etc.

**CO II.** Analyze important algorithms e.g. Process scheduling and memory management algorithms.

**CO III.** Categorize the operating system's resource management techniques, dead lock management techniques, memory management techniques.

**CO IV.** Demonstrate the ability to perform OS tasks in Red Hat Linux Enterprise.

## Problem solving using c:

**Course Outcomes:**

**CO I.** Students will learn about fundamentals of computer and programming language, draw flow chart to solve given problem logically and develop algorithm to solve given program.

**CO II.** Students will be able to comprehend the general structure of C program, concepts of variable, datatype, operator and be able to create a C program to demonstrates these concepts.

**CO III.** Students will be able to use the concept of branching and looping to design efficient C program and be able to apply the concepts of user defined function and recursion to support reusability.

**CO IV.** Students will be able to design an application using the concepts of array, pointer, structure and file management to solve real world problem.

## Software Lab – I

## (Office Automation and Productivity Tools):

## Course Outcomes:

By learning the course, the students will be able

**CO I.** To perform documentation

**CO II.** To perform accounting operations

**CO III.** To perform presentation skills

## Software Lab – II

## (Programming Fundamentals through C Language):

**Course Outcomes:**

**CO I.** The course is designed to provide complete knowledge of C language.

**CO II.** Students will be able to develop logics which will help them to create programs, applications in C.

**CO III.** Also by learning the basic programming constructs they can easily switch over to any other language in future.

## PGDCA SEM-2

### PGDCA-201 Database Management System:

**Course Outcomes:**

**CO I**. It will teach students about DBMS (Database Management System) with MS Access.

**CO II.** Through this students will learn about different data models, keys, normalization, concurrency control, recovery of data and creation and management of databases, forms using MS Access.

**CO III.** Using MS Access students can create databases in future.

## PGDCA-202 Introduction to Computer Network, Internet and Ecommerce:

**Course Outcomes:**

**CO I**: Understand the functions of different layers of TCP/IP and OSI reference models.

**CO II:** Classify of networks-LAN, MAN and WAN.

**CO III:** Identify and understand various techniques and modes of transmission media with real time applications.

**CO IV:** Understand the fundamentals of Network security.

## PGDCA-203 Object-oriented Programming using C++:

**Course Outcomes:**

**CO I:** Understand the benefits of Object-Oriented Programming (OOP) as compare to Traditional Programming approach and resolve problem in domain of object-oriented programming.

**CO II:** Familiarization with a widely range of features of object-oriented programming using C

**CO III:** Understand Object oriented approach for finding solutions to various problems with the help of C++ language.

**CO IV:** Understand the concept of polymorphism with the help function overloading and virtual functions.

**CO V**: Acquire various types of various types and forms of inheritance.

**CO VI:** Understand basic of generic functions and classes.

## PGDCA-204 Software Lab – III (Web Designing, HTML and RDBMS:

**Course Outcomes:**

**CO I**: Write and debug webpage using HTML and DHTML languages.
**CO II**: Knowledge and Use of web publishing and phases related with the website development.
**CO III**: Make use of knowledge related to links, addresses, images, and tables.
**CO IV**: Knowledge of various formatting options on HTML page and web site.
**CO V**: Knowledge of Server Side programming.

## PGDCA-205 Software Lab – IV (C++ Programming):

**Course Outcomes:**

After the completion of the course the learner will be able to:
**CO I:** Understand the benefits of Object-Oriented Programming (OOP) as compare to Traditional Programming approach and resolve problem in domain of object-oriented programming.
**CO II:** Familiarization with a widely range of features of object-oriented programming using C
**CO III:** Understand Object oriented approach for finding solutions to various problems with the help of C++ language.
**CO IV:** Understand the concept of polymorphism with the help function overloading and virtual functions.
**CO V**: Acquire various types of various types and forms of inheritance.
**CO VI:** Understand basic of generic functions and classes.