

Name of the Program: B.A

Program Outcomes

- PO1. To develop intellectual, personal and professional abilities through effective communicative skills; ensuring high standard of behavioral attitude through literary subjects and shaping the students socially responsible citizens.
- PO2. Social Interaction- The students are given knowledge of social, political, economic, historical and psychological guidance pertaining to different situations.
- PO3. Self-directed Learning- The Program gives freedom to choose the subjects as per their area of interest.
- PO4. The courses make them aware of the textual genres including fiction, non-fiction, poetry, autobiography, biography, journal, plays, editorials etc.
- PO5. We see a glimpse of society in literature. The students learn the literary, societal, cultural and historical background of the greatest writings penned by Indian and foreign Authors.
- PO6. It inculcates critical thinking, reading, writing and research skills among students.
- PO7. To create interest towards the cultural and historical background of India.
- PO8. The students are given the training in business communication skills

Department of English

Program outcomes of B.A. General English

Semester 1

- CO1. To develop reading and writing skills of the text.
- CO2. To develop a critical understanding of short stories and essays.
- CO3. To enable students, learn the correct use of tenses.
- CO4. To make the students understand the format of paragraph writing.

Semester 2

- CO1. To evaluate the text from a critical point of view.
- CO2. To develop creative writing skills of students through understanding of tenses and parts of speech.
- CO2. To make the students aware of the techniques of letter-writing.
- CO3. To enhance the ability of students to evaluate different cultures and traditions.

Semester 3

- CO1. To make the students understand different poetic techniques and images.
- CO2. To broaden the outlook of the students about multiculturalism and cultural diversity.
- CO3. To give the students an awareness about global health facilities related to mental and physical development.
- CO4. To make the learners familiarize with different poetical devices.

Semester 4

- CO1. To enhance the awareness of students about the different facets of environmental degradation due to human interference.
- CO2. To offer the students critical insights into the problems faced by second language speakers.
- CO3. To provide the students knowledge of various aspects of Victorian poetry.
- CO4. To give the students an understanding of Voice, Narration, Modals etc.

Semester 5

CO1. To make the students familiarize with concept of American drama and relating it with real-life situations.

CO2. To make the students able to appreciate critically the poetry related to Romantic and Victorian era.

CO3. To give the students a deep understanding of various literary terms.

CO4. To develop technical writing abilities like resume writing, report writing and official correspondence.

Semester 6

CO1. To broaden the horizons of the students by giving them a knowledge of various dramatic techniques.

CO2. To facilitate the students to make a comparative analysis between fictional and real-life characters.

CO3. To impart the students an understanding of analyzing the texts in different contexts.

CO4. To make the students aware with different narrative styles.

Program Name: Bachelor in Arts (BA) Functional English

Programme Specific Outcomes

PSO1. It develops communicative skills among the learners in writing, reading, speaking and listening.

PSO2. Students also learn to use grammar communicately so that they can become effective and efficient communicators in English.

PSO3. It enables the learners to achieve adequate linguistic skills to help them compete international certification tests of English such as IELTS and TOEFL.

Semester I

Course Name: Phonetics and Phonology

CO1. It gives knowledge and awareness of English phonetics.

CO2. It enhances students transcription skills by having them transcribe written and spoken texts and it improves English pronunciation of students.

CO3. It enables learners understand the speech of other speakers and to be understood as well.

CO4. It helps students develop the ability to identify the basic rhythm, stress and intonation patterns of English so that they could excel at usage of the language in various situations.

Semester II

Course Name: Remedial Grammar

CO1. Students learn to use the language effectively by acquiring knowledge of grammatical concepts like nouns, verbs, adjectives etc.

CO2. Students develop a wide vocabulary and a proper understanding of grammar and linguistic conventions which help them write accurately.

CO3. It gives students insight into the structure of English language and enables them to assimilate the correct patterns of the language.

CO4. It helps students understand differences and uses of the different components of English grammar and its syntax.

Semester III

Course Name: Writing Skills

CO1. It will provide students an understanding of more complex grammatical structures in conventions and discussions.

CO2. Students will improve their accuracy as well as fluency in producing and understanding spoken and written English.

CO3. It will help students organize and write coherent sentences, paragraphs and essays free of grammatical errors that impede comprehension.

CO4. Students will get acquainted with various stages of the writing process to attain clarity and completeness.

Semester IV

Course Name: Conversational Skills

CO1. Students will develop conversational skills which would help them communicate effectively orally and in writing.

CO2. Students will be able to understand and apply knowledge of human communication and language processes as they occur across various contexts e.g.interpersonal, small groups, gender, family, intercultural communication.

CO3. It helps the learners to identify common errors in various parts of English and give effective expression in oral as well as written communication.

CO4. It enables the students to communicate clearly and with impact by improving their verbal and non-verbal communication style.

Semester V

Course Name: Print Journalism

CO1. It gives students a basic understanding of various processes of journalism and its role in society.

CO2. It helps students explore the basics of types of reporting skills for journalism.

CO3. It offers an overview of techniques of reporting and interviews as well as news gathering methods.

CO4. It enables students write a variety of mass media products including news stories, reports, blogs etc.

Semester VI

Course Name: Office Communication for Business

CO1. It provides a basic understanding of basic and advanced business writing skills as well as communication skills appropriate for businesses situations.

CO2. It helps them learn and apply various writing formats e.g. reports, memos, emails, resumes, letters etc. to meet particular needs or purposes.

CO3. It provides language instruction and training in business communication including business correspondence, negotiations, formal presentations, business vocabulary for professional purposes.

Program: BCA/BCOM Financial Services

Programme Specific Outcomes

Subject- Communication Skills in English

PSO1. To develop proficiency in all the four aspects of communication skills ie reading, writing, listening and speaking.

PSO2. To learn effective strategies to enhance verbal and non verbal communication.

PSO3. To enable the students articulate properly in English.

PSO4. To increase the confidence level of the students.

Semester- 1

CO1 To learn various aspects of communication skills.

CO2 To improve reading and writing skills of the students.

CO3 To make the students aware about different formats of writing letters, applications, office memorandums, notices etc.

CO4 To develop the comprehension skills of the students.

Semester 2

CO1 To improve listening and speaking skills of the students.

CO2 Enhancing the communication proficiency.

CO3 Making the students aware of the accurate pronunciation of words in English.

CO4 Making them acquainted with different patterns of intonation.

Elective English

PSO1 Critically analyse and appreciate prominent works of English Literature.

PSO2 To enhance proficiency in English language according to the needs of contemporary global scenario.

PSO3 To develop creative acumen of the students

PSO4 To enable the students amalgamate knowledge with core human values.

Course Outcomes.

Semester1

CO1 To enhance the understanding of English Drama by critically explaining different aspects to students.

CO2 To develop an understanding of literary devices.

CO3 To improve pronunciation by inculcating an understanding of phonetics.

Semester 2

CO1 Appreciate literary texts as a source of great wisdom.

CO2 Acquainting the students with the genre of comedy of manners.

CO3 In depth study of characteristics of Indian English Literature.

CO4 Practice and develop transcriptive skills of the students.

Semester 3

CO1 To get the students acquainted with the current issues of society.

CO2 To develop critical and analytical abilities of the students.

CO3 To acquaint the students with writer's style of writing.

CO4 To make the students aware about different poetic styles.

Semester 4

CO1 Learning the art of critical reading in modern prose.

CO2 To get the students acquainted with the socio-cultural contexts of commonwealth nations.

CO3 Creating an empathetic view point.

CO4 Understanding of the modern critical moments.

Semester 5

CO1 Appreciating the characters and situations in background of the historical and cultural contexts.

CO2 Critical appreciation of English drama.

CO3 To create awareness about background of different periods in History of English Literature.

Semester 6

CO1 Reading novel with focus on cultural contexts.

CO2 To analyse critical implications of Second World War on the state of Bengal.

CO3 Appreciate literary texts as a great source of wisdom.

CO4. To enable the students to comprehend the thought and ideas contained in the text.

Department of Political Science

Programme Specific Outcomes

- PSO 1: It gives the basic understanding of Indian Constitution which may help the UPSC aspirants to crack the Civil Services examinations.
- PSO 2: It offers opportunity to the students to work in the various National as well as International Organizations.
- PSO 3: Students having good command over the political concepts may excel their career in Law and Journalism.
- PSO 4: Students can make their career in teaching profession also at the local, national and global level.

Course Outcome

B.A. SEM I: (Principles of Political Science)

- CO 1. The study of political theory helps the students to understand the basic concepts of Political Science: Origin of Political Science, Origin of State, and Origin of various isms: Liberalism, Marxism, Gandhism.
- CO 2. It enables the students to understand the functions of the state.
- CO 3. It helps the students to understand the concepts and theories of Political Science.

B.A. SEM II: (Modern Political Theory)

- CO 1. Modern Political theory helps the students to understand the major changes which occur in modern period.
- CO 2. It makes the students to understand the functioning of the state.
- CO 3. Many concepts like Power, Authority, and Legitimacy are taught to make students learn how political setup works.
- CO 4. It is the training program for the students how to become responsible and aware citizens.
- CO 5. It helps the students to practically realize political socialization and political mobilization.

B.A. SEM III: (Indian Constitution)

- CO 1. In this semester, students learn the making and functioning of the Constitution of India.
- CO 2. Students learn the importance of their rights as well as their duties that makes them responsible citizens.
- CO 3. It helps to understand the center and state composition of parliament, legislature.
- CO 4. It helps the students to understand the judiciary system of India.
- CO 5. It also helps the students to know the center and state relations which are a very important topic during the present scenario.
- CO 6. It helps to understand the constitutional posts as per mentioned in Indian Constitution and also how to perform the work.

B.A. SEM IV: (Indian Political System)

- CO 1. In this semester the students understand various factors that influence the Indian Political System: role of caste, religion etc.

CO 2. It also helps the students to find out the solutions regarding bad practices prevalent in the system.

CO 3. It deals with the practical aspects of Indian Constitution which makes the students learn how Indian Political System works.

B.A. SEM V: (Comparative Government and Politics)

CO 1. Students get the wider understanding of International Politics.

CO 2. It enhances the students' capability to understand political system of UK and USA.

CO 3. It also provides the material to make a comparative analysis of these constitutions with India.

B.A. SEM VI: (International Politics: Theory and Practice)

CO1. This syllabus helps the students to understand various theories and concepts regarding International Politics.

CO2. It helps the students to understand the composition and functioning of UNO.

CO3. It gives an overview of power conflicts between developed and under developed countries.

Department of Economics

Programme Specific Outcomes

PSO1. Students will understand general economic concepts (supply & demand, comparative advantage, opportunity cost, etc.).

PSO2. Students will be able to analyze data to solve complex economic problems.

PSO3. Students will be able to apply economic theories to understand social and public policies.

PSO4. Students will be able to demonstrate an ability to identify alternative solutions to problems.

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Course Outcomes Semester-I

Paper: Micro Economics

CO1. Students will understand micro-economic concepts (elasticity, monopoly, price discrimination, etc.).

etc.).

CO2. Students will be able to differentiate between positive and normative statements.

CO3. Students will understand general economic concepts (supply & demand, comparative advantage, opportunity cost, etc.).

CO4. Students will be able to analyze the decisions taken by firms and households due to scarcity of resources.

Semester-II

Paper: Macro Economics

The students will be able to:

- CO1. Students will come to know about the evolution of macro economics.
- CO2. Students will understand the difference between micro and macro economics.
- CO3. Students will be able to evaluate the role of government expenditure in the economy.
- CO4. Students will be able to examine the role of money in modern economy.

Semester-III

Paper: Indian Economy

- CO1. Students will understand the basic characteristics of Indian economy, the development process in India after independence and the role of the Indian Economy in the global context.
- CO2. Students will analyse the progress and changing nature of agriculture, industry and tertiary sectors and their contribution to the economy as a whole.
- CO3. Students will be able to analyze various economic issues like Poverty, Inequality, and unemployment in Indian economy.
- CO4. Students will be able to examine the role of RBI in Banking sector and Indian economy.

Semester-IV

Paper: International Trade and Public Finance

- CO1. Student will become aware about international trade blocks, WTO, IMF and their importance.
- CO2. The students will be acquainted with economic concepts and models of international trade.
- CO3. Students will be able to understand public expenditures, taxation, budgetary procedures, stabilization instruments, debt issues.
- CO4. It will help in understanding and analyzing the impact of public policy on the allocation of resources and the distribution of income in the economy.

Semester-V

Paper: Development Economics

- CO1. Student will be able to understand central issues of economic development in poor countries.
- CO2. The students will be acquainted with economic concepts and different theories that explain economic development.
- CO3. Students will be able to explain inequalities between rich and poor countries and how the differences between rich and poor countries have evolved over time.
- CO4. The students get knowledge of different measurements of poverty and inequality.

CO5. Students will be able to differentiate the Export Promotion and Import Substitution policies of development.

Semester-VI

Paper: Quantitative Techniques

CO1. Students will get the knowledge of quantitative techniques in the area of mathematics and statistics.

CO2. Students will be able to collect, analyse and interpret empirical data.

CO3. Students will be able to use and apply the measures of central tendency and dispersion.

CO4. Students will be able to analyse the underlying relationships between the variables, interpret covariance and correlation coefficient and estimate regression coefficients.

Department of History

Programme specific outcomes

PSO1. Understand the background of our religion, customs institutions, administration, and so on.

PSO2. Understand the present existing social, political, religious, and economic conditions of the people.

PSO3. Analyse the relationship between the past and the present is lively presented in history.

PSO4. Develop practical skills helpful in the study and understanding of historical events.

PSO5. Develop interests in the study of history and activities relating to history.

PSO6. History installs the feeling of Nationalism in the hearts and minds of the Students.

Course Content

Learning Outcomes

Students registered in the program complete a course that exposes and trains students in a full range of crucial expertise and capabilities. They will have the prospect to master the following objectives.

PLO1. To study a basic account of historical events in a specific region of the world in a specific period of time.

PLO2. To articulate factual & contextual knowledge of specific places & times, to make careful evaluations.

PLO3. To recognize & evaluate different historical concepts, various opinions and point of view.

PLO4. To develop an appreciation of our past through the study of the local, regional, national and world context.

PLO5. The ability to use bibliographical tools for the advanced study of history.

Course Learning Outcomes BA Semester I

Paper: History of India (C.1000)

CLO1. Students will acquire knowledge regarding the primitive life and cultural status of the people of ancient India.

CLO2. How, when, and where people first developed cultures, in terms of evolution, how

they evolved from a primitive to a civilised man.

CLO3. They can gather knowledge about the society, culture, religion, and political history of ancient India.

CLO4. They will also acquire the knowledge of changing socio-cultural scenarios of India. In addition to it, Students will be able to examine the institutions of Ancient India.

CLO5. Students will acquire knowledge about the foreign cultures (Greek, Saka, and Hun, etc.) and their synthesis with Indians.

BA Semester II

Paper: History of India (C. 1000–A.D.1707)

CLO1. Students will be able to identify the major political developments in the History of India during the period between the eleventh to eighteenth centuries.

CLO2. Students will acquire knowledge of the medieval history of India which is associated with the Sultanate & the Mughals with the Sufis and Bhakti reformers, apart from it, the local and regional powers like Vijayanagar and Bahmanies.

CLO3. Outline the changes and continuities in the field of culture, especially with regard to Art and Architecture.

CLO4. They will also acquire the knowledge of changing socio-cultural scenarios of India and also acquire the knowledge about the cultural synthesis during this period.

BA Semester III

History of India (1707-1947 A.D.)

CLO1. This course aims to provide an understanding of an era of shifting history from the medieval age to the modern age. It discusses the turbulent times when foreign power came to power and fought for supremacy in different regions of India. And, gradually rise and consolidation of British Power in India.

CLO2. Students will come to know the changes in the field of administrative policies, laws, the role of Printing press and modern education (primary, secondary and higher).

CLO3. The contents of the syllabus are designed to cover core issues focusing the vast canvas of nationalist history so that our students is equipped to focus upon the core ideas of national movement in its contextuality.

CLO4. Student will enhance their knowledge about the freedom struggle movement comprises moderate; extremists phase of Indian National Congress, Revolutionary Phase I; II, and Era of Gandhism. Apart from it, role of Communism in India.

CLO5. India's quest for independence and nation building are interwoven script of history, debated most widely at global level with various angles. Indeed, India's national movement has vast and divergent ideological base with inner contradictions.

BA Semester IV

History of the Punjab (AD 1469-1799)

CLO1. Students will acquire knowledge about those historical Sources, which will throw light to know about the Cultural History of Punjab from the 15th Century to the 18th century.

CLO2. Punjab under Lodhi's, Their administrative practices, social, religious and economic

condition of north India.

CLO3. Students will acquire knowledge about the birth of Sikhism, Guru Nanak's Philosophy and Travelling's, consolidation of Sikh Church under Guru Angad Dev ji to Guru Arjun Dev ji, Transformation Under Guru Hargobind Ji, Martyrdom of Guru Teg Bahadur ji, and Creation of Khalsa by Guru Gobind Singh ji.

CLO4. Political change in Punjab under Banda Singh Bahadur and emergence of Dal Khalsa. And Punjab under Misl.

BA Semester V

History of World (1500-1956)

CLO1. Students will be able to see the impact of the Renaissance and Reformation movements in Europe.

CLO2. The ideas generate worldwide through the French and American Revolutions.

CLO3. The Era of Napoleon, Metternich, Bismarck, Cavour, Garibaldi, Lenin, Dr. Sanyat Sen, Mao Tse Tung etc.

CLO4. World shaped between two World Wars and Ideology of Communism, Socialism, Nazism, and Fascism in World.

CLO5. Students will aware of the rise of Russian, Chinese, and Japanese as Asian powers which affected to the contemporary society and politics of the world.

CLO6. Students have understood the process of imperialism and colonialism in different parts of the world.

BA Semester VI

History of Punjab (1799–1966)

CLO1. Students will know about the establishment and rise of Maharaja Ranjit Singh's Empire.

His relation with Sikhs misls, Britishers, hills state chiefs, and Afghanis.

CLO2. British-Anglo wars, the annexation of Punjab by Britishers, Administrative and economic changes under Britishers in Punjab.

CLO3. Students will come to know about the History of Punjab under Britishers from 1849-1947.

CLO4. Punjab during two world wars and circumstances lead towards partition.

CLO5. Rehabilitation process after partition and demand of Punjabi Suba.

Department of Physical Education

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

PSO1. Physical education program develops the physical, mental and social health of individual. PSO2. Physical education program aware the student about importance of balance diet.

PSO3. Students can pursue their careers as physical education teacher.

PSO4. Physical education program teaches the students about importance of sports and physical activities.

PSO5. It will help the students in learning various yoga techniques.

Semester-I Paper: A Theory

Students will learn about: -

- CO1. Physical education and its importance in life.
- CO2. Concept of physical training and coaching.
- CO3. Biological principles of physical education.
- CO4. Development of physical education and sports in India and schemes like N.S.N.I.S., SAI.
- CO5. Ancient, Modern Olympics, Commonwealth and Asian games.

Paper: B Practical

- CO1. Students will learn the rules of athletics events specifically 100m race and Shot put as well as games Volleyball and Cricket.

Semester-II Paper: A Theory

Students will learn about: -

- CO1. Various systems of human body like skeletal system, muscular system, digestive system, and about human cell or movement and joints of body.
- CO2. Health education, personal hygiene and communicable diseases.
- CO3. Concept of balance diet, and its functions.
- CO4. General concept of air and water pollution.
- CO5. First aid and its importance.
- CO6. Bad effects of alcohol and smoking on health

Paper: B Practical

- CO1. Students will learn the rules of athletics event specifically 400m race and Long jump as well as games Hand ball and Kho-Kho.

Semester-III Paper: A Theory

Students will learn about: -

- CO1. Concept of learning and its laws.
- CO2. Concept of motivation and its importance.
- CO3. Psychological factors affecting sports performance.
- CO4. Growth and development
- CO5. Sports and socialization.

Paper: B Practical

- CO1. Students will understand the rules of athletics events specifically 200m race Discus throw, and games like Football and Yoga.

Semester-IV Paper: A Theory

Students will learn about: -

- CO1. Concept of Yoga, Asanas, Pranayam and their effects on human body.
- CO2. Concept of Sudhi Kriyas and its importance.
- CO3. Various systems of human body like respiratory system, excretory system and endocrinesystem.
- CO4. Concept of nervous system
- CO5. Sports injuries and their preventions.

Paper: B Practical

- CO1. Students will understand the rules of athletics events specifically 800m race, High jump, and games like Hockey and Wrestling.

Semester-V Paper: A Practical

Student will learn about: -

- CO1. Concept of motivation and its objectives
- CO2. Concept of intramural and extramural sports competitions
- CO3. Concept of motion, equilibrium, centre of gravity and forces
- CO4. Concept of postures and its deformities like knock knees and flat foot
- CO5. Concept of sports training and cooling down and warming up.

Paper: B (Practical)

- CO1. Student will understand the rules of athletics event specifically 1500m race, Triple jump and games like Basketball and Judo.

Semester-VI Paper: A Practical

Student will understand:

- CO1. The concepts of exercise effect on various human body systems like respiratory and circulatory system
- CO2. General concept of vital capacity, blood pressure, general and specific conditioning
- CO3. Tournaments and its types
- CO4. Meaning of kinesiology and its importance
- CO5. Types of joint and muscles
- CO6. Components of physical fitness
- CO7. Training methods: circuit, interval and weight training method.

Paper- B Practical

- CO1. Students will understand the rules of athletics events specifically 5000m race, Javelin throw and games like Kabaddi and Badminton.

B.A./B.Sc. (Semester System) (12+3 System of Education)
COMPUTER APPLICATIONS (VOCATIONAL)

BA is a 3-year course which is divided into six semesters. This covers subjects such as: Computer Fundamentals, Operating System, Business Data Processing, Programming Using ‘C’, Relational Database Management System, Computer Graphics, Internet and web designing. Computer Applications (vocational) course in Bachelor of Arts is career oriented in nature that opens many scopes for the candidates after its completion. Both public and private sectors, in fields of banking, insurance, accounting, stock markets, e-commerce, and marketing etc., are popular fields of employment for such graduates.

How is a Computer Applications (Vocational) Course is Beneficial in BA?

Computer applications currently are involved in all fields, such as economic, administrative, and political, the course is career-oriented in nature. Computers are an integral part of professional environments in the 21st century and not knowing the basic or advanced knowledge of computer technology can be a drawback for any individual. In the present scenario, it is difficult to come up with a job that does not require the use of a computer. Journalists use computers to search for information and edit text or video, the police force uses computers to store criminal records, while even a self-employed shoe salesman can use the computer to keep his books intact with the help of spreadsheet software. Even rudimentary knowledge of computer technology is essential to undertake everyday tasks and improve workplace performance. This Computer Applications (vocational) course is designed to develop basic computing skills in the faculties of Arts. The course guides students to use computer systems and the internet in a secure and effective manner.

Program Specific Outcomes

PO Code	Computer Career	Description	Required Skills
PO1	Computer Programmer	A Person who creates computer software. He is sometimes called a software developer or coder .	To be a computer programmer after BA, one must have good programming skills and have hands- on experience of the C language which students can learn in semester 2.
PO2	Web Developer/ Web Designer	BA Students after studying computer application course can opt for web developer. The web developer job after BCA primarily involves the creation and maintenance of websites.	A web developer must have skills in HTML/ XHTML, JavaScript, CSS, Database Skills etc. Students will learn these skills in 4 th and 5 th semester.

PO3	Database Administrator (DBA)	DBA manages the database software to store, organize and access the data successfully. DBA usually oversees a team of SQL developers. He ensures that data is available, protected and easily accessible as needed.	For becoming a good DBA, One must have a good understanding of database management concepts which includes its architecture, models. One must know about relational database models and how to store data in a database .Knowledge and hands-on practice of Structured query language is also required through which tables are actually created to create a database as data is stored in the form of tables and apply various operations on it for managing data. Students will learn this in 4 th semester.
PO4	Teacher	For teaching in Schools as a Computer Teacher.	This position requires in-depth knowledge about Computer Fundamentals, MS Word, Excel, and PowerPoint Applications. Students will learn these skills in the first semester.
PO5	Jobs in Govt. Sector	BA graduates appear for government exams like UPSC, SSC CGL, Railway exams, SBI PO, LIC , etc., and get hired in the government division. Knowledge of computer applications is required in all these fields. So, to work efficiently in any government. Sector knowledge of computers is a must.	For working in any government sector one must have good knowledge of MS Office which includes MS Word, MS Excel, MS Power Point, database management system, Business data processing, Internet applications. Students can learn these skills throughout BA.
PO6	Bank PO/Clerk Jobs	For those striving for a stable career after completing graduation, there is a lucrative option of exploring the banking sector jobs after BA.	To successfully do a banking job one must have good knowledge of MS-OFFICE, RDBMS, Business data processing which students can learn throughout graduation while studying computer applications (vocational) course.

BA Computer Applications (Vocational) Semester-I

COMPUTER FUNDAMENTALS & PC SOFTWARE (THEORY) (C1)

The main objective of this course is to introduce the fundamentals of computing devices and reinforce computer vocabulary, particularly with respect to personal use of computer hardware and software. It focuses on such computer literacy that prepares students for life-long learning of computer concepts and skills. Students discover why computers are essential components in education, business and society in this course. Basic knowledge of computer technology is crucial to undertake everyday tasks and to improve workplace performance. Knowing the various usages of computers and the way to access them effectively is a valuable skill in today's world.

The main objectives are:-

- To impart knowledge about components and functions of Computer Systems.
- To understand the working of basic input, output and storage devices.
- To give a detailed view of MS Word and MS PowerPoint.
- To Give in-depth understanding of Application of computer in various areas.

Course Outcomes (CO)

Upon successful completion of this subject students should be able to:

CO1: Understand what is a computer system and Basic information related to computers.

CO2: Understand the fundamental hardware components that make up a computer's hardware and the role of each of these components.

CO3: Familiarization with the basic concepts of computer and its Applications

CO4: Familiarization with the Input and Output Devices and Data Storage Devices.

CO5: Skill to work with MS-Word and PowerPoint.

BA Computer Applications (Vocational) Semester-II

PROGRAMMING USING C (THEORY)(C2)

The course aims to provide exposure to problem-solving through programming. It aims to train the student to the basic concepts of the C-programming language. Programming in C is fairly easy because it uses basic commands in English. In addition to this, the C programming language is recognized worldwide and used in a multitude of applications, including advanced scientific systems and operating systems.

Course Outcomes(CO)

CO1:Understanding of various concepts of C language.

CO2:Ability to read, understand and trace the execution of programs.

CO3:Skill to debug a program.

CO4:Skill to write program code in C to solve real world problems.

CO5: Students will be able to discover their interests in programming.

CO6: acquire basic programming skills.

BA Computer Applications (Vocational) Semester-III

OPERATING SYSTEM(C3)

The operating system is like blood to a human body, it is the **heart of all smart devices** like computers, laptops, tablets, smartphones, etc. Studying operating systems teaches students how computers work internally. Students will learn how Operating Systems are Important for Computer Systems. And also will be aware of different types of Operating System and their services. This course introduces basic understanding of UNIX OS, UNIX commands and File system and to familiarize students with fundamentals of shell programming.

Course Outcomes(CO)

After studying an operating system students will :-

CO1: Students will learn fundamentals of operating system and its types.

CO2: Understand the services provided by and the design of an operating system.

CO3: Understand what a process is and how processes are synchronized and scheduled.

CO4: Understand different approaches to memory management.

CO5: Understands concept of booting of a system.

CO6: Understand features and benefits of UNIX operating system, its commands, its various types of file systems.

CO7: Understands concept of shells and its types.

OPERATING SYSTEM (PRACTICAL)

While it's important to learn the theory of a course. Practical learning has the unique ability to help students apply their skills in a non-classroom environment. In this lab students will get hands- on experience of applying various Unix commands and shell programming.

Course Outcomes(CO)

Upon completion of this course, the student will be able to:

CO1: Run various UNIX commands on a standard UNIX/LINUX Operating system.

CO2: do shell programming on UNIX OS.

BA Computer Applications (Vocational) Semester-IV

Relational Database Management System(C4)

The main purpose of studying RDBMS is to be able to encompass basics of database management systems and understand the working of RDBMS. In today's professional world, every business requires database systems for maintaining organizational records. A good database management system will help make the everyday operations of business effortless. The RDBMS course offers an overview of various functions, benefits and architecture of database management systems and illustrates various database models. This course is an effort to describe the relational database systems in detail along with the normalization processes as it is gaining greater importance across numerous organizations.

Course Outcomes (CO)

At the end of this course, the successful student will:

CO1: Understands introduction about 3GL/4GL languages.

CO2: Have Understanding of database concepts and database management systems and relational database management systems.

CO3: have a high-level understanding of major DBMS components and their functions.

CO4: understand what is relational model, network model and hierarchical model and their differences.

CO5: Understands basics of SQL and constructs queries using SQL.

CO6: Understand the relational database principles.

CO7: Understands normalization concepts and its first, second and third normal forms.

CO8: Compose SQL queries using operators.

CO9: Understands Data Definition language, Data manipulation language and Data control language.

CO10: Able to write SQL commands to create tables and indexes, insert/update/delete data, and query data in a relational DBMS.

CO11: Compose SQL queries using aggregate, character and arithmetic functions.

CO12: Understands PL/SQL Language and its relationship with SQL, its structures

Programming Lab – Oracle

This lab course will provide the practical knowledge to students to work on existing database systems, Understand various advanced queries execution such as relational constraints, joins, set operations, aggregate functions, trigger, views and embedded SQL. It will improve the technical skills of students and make it easier for students to do database connectivity during website development. Students having practical knowledge of SQL can easily build their career in the area of Database administrator in It industry.

COURSE OUTCOMES(CO)

CO1: Ability to execute SQL Commands.

CO2: Ability to organize data in the form of tables and can apply various operations on it using SQL queries.

CO3: Skill to write PL/SQL programs

BA Computer Applications (Vocational) Semester-V

INTERNET AND WEB DESIGNING (THEORY)(C5)

The Internet is a vast source of information. Every person in this world is somehow dependent on the Internet. So, students should be aware of how the internet and its various applications work. Students can learn what the Internet is and its applications, how the Internet works, the working and managing of email and various web technologies like HTML, DHTML. These are the basis of web development. Students can start building their own websites.

COURSE OUTCOMES(CO)

After learning this course students will have:

CO1: Comprehensive knowledge of the Internet and its working.

CO2: Ability to use services offered by the internet, Email and browsers.

CO3: Skill to develop websites using HTML

BA Computer Applications (Vocational) Semester-VI

BUSINESS DATA PROCESSING (THEORY)(C6)

Companies in almost every industry now collect vast amounts of data about their customers and competitors. Data processing means collecting data from different sources and arranging them in a way that can be used for decision making in business. With the emergence of fields like data science, data analysis and big data etc. the need to process data and to understand the importance of data is crucial.

Course Outcomes(CO)

Students will be able to :-

CO1. Understand Basics of Data Processing.

CO2. Familiarization with Applications of computers in Business.

CO3. Different application areas of Computer.

CO4. Types of Processing methods with examples

CO5. How to work with Spreadsheets.

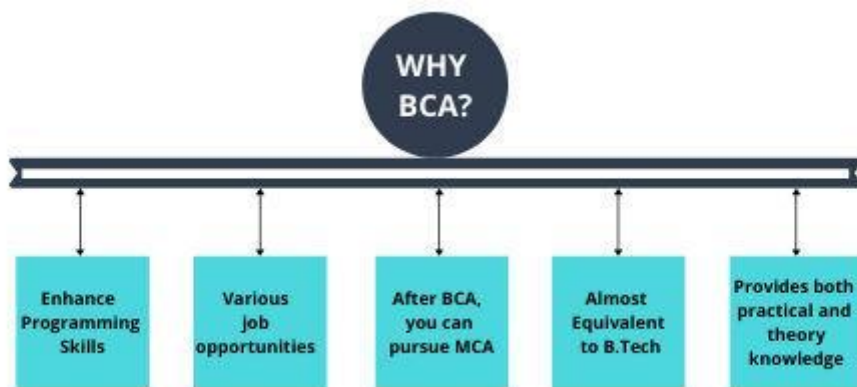
CO6. Familiarization with iterative controls, triggers, Developer 2000, Utilities

PO/Course mapping	PO1	PO2	PO3	PO4	PO5	PO6
C1				✓	✓	✓
C2	✓			✓	✓	
C3	✓	✓	✓	✓	✓	✓
C4		✓	✓	✓	✓	
C5		✓	✓	✓	✓	✓
C6				✓	✓	✓

BCA Course

Bachelor of computer applications is a three year undergraduate degree course which is divided into six semesters. It is equal to the Bachelor in Technology (B.Tech) course taken up by students often. BCA is mostly a software oriented course, with no or little stress in hardware. Thus it demands no physical effort and allows you to have a stress free work environment. Students will be taught subjects which are related to the technological applications that are required in today's practical work field. The course curriculum of BCA is industry oriented with a wide range of possibilities and opportunities where students learn exactly what market demands. The subjects offered vary from very basic to core programming languages like programming skills in C, C++, Java, Python programming, Computer Networks, Operating Systems and Database Management System etc. This course provides the required skills and enables the students to get themselves employed in different sectors.

Why BCA?



There are plenty of reasons to study BCA. There is an utmost need of skilled professionals to serve and solve the various problems in the world of technology and IT in India. Most of the students prefer to study this course because of the following advantages:

- It opens a pool of job opportunities in various fields, especially in the IT sector.
- There is an opportunity for students to go for higher studies too like MCA, to add an extra edge and update their skills & experience, which leads to career development.
- Students become proficient in well-used programming languages such as JAVA, C, C++, Python, CSS, Python, PHP etc., and enhance their technical skills as well.
- A candidate with a BCA degree is in huge demand since manpower is continuing to get replaced by the systems and the need for good skilful experts and professionals is there to operate and function.
- In terms of salary, BCA graduates can earn from INR 2.4-5 LPA in the starting and after getting industry experience and become proficient in advanced technical skills, the salary hike can be around 30-40% and you can earn around INR 3.5-8 LPA after 2-4 years of experience.

BCA Course Benefits

BCA is one of the most trending courses which will help students in earning reputable jobs like **Web Developer**, **Web Designer**, **Network Administrator**, **System Manager**, **Computer Programmer**, **Software Developer**, **Software Tester**, etc. The majority of MNCs are in search of candidates who are proficient in the field of computer application. Thus, a BCA degree would be totally worth it.

- It focuses on the study of computers for three years which will help gain skills and knowledge to make a career in computer related fields.
- The BCA course offers multiple job opportunities in the field of IT and computers.
- Both the public and private sector are known to recruit the graduates of BCA courses.

Program Outcomes (PO)

PO Code	Career Options after BCA	Description	Required Skills
PO1	Computer Programmer	A computer programmer is a skilled professional who makes programs with help of codes in detailed instructions that devices must follow in order to perform their functions.	To be a computer programmer, one must have an understanding of coding languages and algorithms. One must possess good programming skills and also in-depth knowledge of C, C++, Java, Python, PHP, Data structures.
PO2	Web developer Web Designer	BCA graduates can opt for web development as a solid career choice. The web developer job after BCA primarily involves the creation and maintenance of websites. A Web developer is typically concerned with the back end or programming aspects of developing a website or Web application, as opposed to a Web designer, who is only	For web developers A good knowledge of HTML, CSS, and JavaScript php is required. And He/she should be an expert in SQL

		concerned with the aesthetics of a website.	
PO3	(DBA) Database Administrator	Database administrators (DBAs) design, write and take care of computer database systems so that the right person can get the information they need at the right time.	For becoming a good DBA, One must have a good understanding of database management concepts which includes its architecture, models. One must know about relational database models and how to store data in database .Knowledge and hands- on Structured query language is also required through which tables are actually created to create a database as data is stored in the form of tables and apply various operations on it for managing data.
Po4	Software developer trainee	The software developer job after BCA primarily involves the role of a trainee. A trainee is responsible for developing software while learning and getting hands-on practice in different computer languages. As soon as a software developer trainee becomes adept at a particular language, he is tasked to complete a relevant project.	For a software developer trainee, one must know about the basics of programming, what actually the programming is and all the basic concepts of programming which is common for many programming languages.
Po5	Technical analyst	A technical analyst is another interesting choice for a job after BCA. The responsibilities include implementing IT procedures and systems for efficiency, suggesting technological applications to reduce the cost, evaluate and monitor IT systems	This job usually requires skills such as SQL, knowledge of MSOffice, Superior understanding of computer and networking hardware and software systems.
Po6	Software Tester	A software tester is someone who checks software for bugs, errors, defects, or any other issue that could impair the performance of computer software or an application.	Every Software Tester Must-Have good knowledge of software engineering which has a software testing phase. Being a software tester, one must also have good project management skills.

PO7	Network Engineer	A computer network engineer is the backbone of an organization's entire information technology system. He is the person in charge of designing and implementing physical and wireless networks, as well as managing and ensuring their proper operation.	A network engineer must have skills in Digital Electronics, Computer Architecture and Computer Networking.
PO8	Teacher	If someone has an interest in teaching, then he/she can take up a teaching job after BCA. Many private institutions hire BCA graduates as teachers. Apart from that, he/she can also choose to teach online on various online teaching platforms. He/she can also tutor and give private tuition to the students. The salary generally corresponds to the number of hours of teaching, so it can be pursued part-time as well.	As a teacher, one must have good communication skills and also must have in-depth knowledge of subjects like computer architecture, computer graphics, DBMS, Software Engineering, Web Technologies, Operating System etc. and all other subjects included in BCA according to his/her interest.
PO9	Jobs in Govt. Sector	There are ample opportunities available for BCA students in the government sector. BCA degree holders can opt for entrance exams such as UPSC, SSC, CGL and more for a prestigious career. To work in public sector undertakings and Government organizations as Technical Assistant, Computer Operator, IT Manager & IT Assistant.	Computer Fundamentals, MS Word, Excel, and PowerPoint Applications, Computer Programming, Software Engineering and Data Architecture, Mathematical aptitude, Problem-solving skills.
P10	Freelancing	Freelancing is another interesting career choice for BCA graduates. Many budget-conscious private companies hire freelancers who are experts in various programming languages. They are mostly hired on a project basis to help these companies set up their website portals and help optimize their digital strategy. This gives freedom to BCA degree holders to work from anywhere in the world or pursue	For working as a freelancer one must have good Programming skills and be technically strong. Also for freelancing web developers one must have clear concepts of Html, CSS, JavaScript, PHP etc.

		freelancing part-time while studying further.	
P11	Master's or Post-graduate degree	For those who are looking to up-skill and gain more knowledge to meet the ever-evolving demands of the IT industry, they can pursue a postgraduate degree in the same field. Masters in Computer Applications or MCA is widely chosen after BCA to dig deeper into this field and gain expertise in computer applications.	BCA

Prerequisite
1. Students must pass 10+2 with 40% marks in aggregate. 2. Students must have good reading and writing skills in English. 3. Students should have the ability to think logically.
Semester-I
Introduction to Programming – C (C1)
<p>This course demonstrates programming skills to the students who are beginning their career in various Computer Programming Languages. C Programming acts as the base of programming languages which will formulate the interest of students in the programming field. The concept of the C programming language acts as an outline to all advanced computer programming languages. This language is being accepted as a universal programming language that elaborates the understanding of programming language in students.</p>
Course Outcomes (CO)
<p>Upon successful completion of the course, a student will be able to:</p> <p>CO1: Understands basic programming concepts and Analyze a given problem and Improve upon a solution to a problem.</p> <p>CO2: Students will learn the concept of character set identifiers and keywords, data type, variable names, declaration statements and basic structure of C program.</p> <p>CO3: Use the 'C' language constructs in the right way.</p> <p>CO4: Students will classify the String Operations, String and Character Functions.</p> <p>CO5: Students will understand the concept of Arithmetic operators, relational and logical operators.</p> <p>CO6: Understanding of various concepts of C language.</p> <p>CO5: Ability to read, write, understand and trace the execution of programs.</p> <p>CO6: Skill to debug a program.</p> <p>CO7: Students will learn the concept of Accessing Array Elements, Storing Values in Arrays, and length of an Array.</p> <p>CO8: Students will be able to use these concepts in more advanced concepts like Object Oriented Programming.</p>
Introduction to Computers and Information Technology (C2)
<p>This course categorises the fundamental information about computers and its working. Students discover the fundamental concept of computers with their present level of knowledge about computers. This course simplifies Microsoft Office programs which enable the students to create professional and academic documents. Students elaborate various accounting related operations in MS Excel and presentation skills by using MS PowerPoint which makes them able to work in the field of office automation.</p>

Course Outcomes (CO)

Upon successful completion of this subject students should be able to:

CO1: Understand what is a computer system and Basic information related to computers.

CO2: Understand the fundamental hardware components that make up a computer's hardware and the role of each of these components.

CO3: Familiarization with the basic concepts of computer and its Applications

CO4: Familiarization with the Input and Output Devices and Data Storage Devices.

CO5: Skill to work with MS-Word and PowerPoint.

CO6: Demonstrate the basic technicalities of creating Word documents for office use.

CO7: Demonstrate the basic technicalities of creating a PowerPoint presentation.

Applied & Discrete Mathematics (C3)

This course demonstrates the mathematical fundamentals topics to students. Boolean algebra is demonstrated through this course structure, so that students can prepare themselves for further understanding of topics related to other subjects of the programme. This summarizes the concepts to the students in many competitive exams that act as a base for reasoning, quantitative techniques and graph theory as well.

Course Outcomes (CO)

CO1: Knowledge regarding the use of Discrete Mathematics in Computer Science.

CO2: Knowledge regarding Boolean Algebra, Set Theory, Relation, Graphs.

CO3: Familiarize students with matrices

Practical-I (MS Office 2010 and Basic C Programming) (C4)

While it's important to learn the theory of a course. Practical learning has the unique ability to help students apply their skills in a non-classroom environment.

Learning Outcomes

Student will be able to:-

CO1: Apply logic for problems.

CO2: Compile and execute C Programmes.

CO3: Develop programs on basic concepts in C.

CO4: Create programs on arrays, functions, pointers and files.

CO5: Develop programs using control structures.

CO6: Create the programs using functions in C.

CO7: Create documents in MS-Word and apply fonts on it.

CO8: Create presentation in MS-PowerPoint.

Communication Skills in English – I (C5)

“**Communication -the human connection-is the key to personal and career success**”. Along with technical knowledge, good communication skills are also required in the IT industry. Engineers with the ability to clearly communicate can confidently present their ideas to decision makers in presentations, meetings and reports.

Course Outcomes (CO)

Upon successful completion of this course students should be able to:

CO1: Understand the communication processes and practices in academic and professional Contexts.

CO2: Able to understand the concept and basics of communication and essentials of grammar.

CO3: Students are able to work with jumble words and grammar.

CO4: Enhance the knowledge of composition; produce written academic and professional Documents.

Punjabi (Compulsory) /Punjab History & Culture (From Earliest Times to C 320) (C6)

To promote mother tongue, Punjabi has been made a compulsory course in BCA-I & II Semester. It is used as a medium language in schools, colleges, and universities in the Indian state of Punjab.

Course Outcomes (CO)

CO1: Familiarization with History of Punjabi, Punjabi Poetry and dialects of Punjabi.

CO2: Writing Paragraphs in Punjabi.

PO	PO-CO Mapping										
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C1	✓			✓				✓	✓	✓	✓
C2					✓			✓	✓	✓	✓
C3	✓							✓	✓		✓
C4	✓			✓	✓			✓	✓	✓	✓
C5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
C6									✓		

BCA-Semester-II

Introduction to Programming – C ++ (C1)

C++ is an extension of the C language. It provides high-level features such as arrays, classes, objects etc. which helps programmers in smooth coding. C++ is used in web and application development. Also some of the major programming languages like java, python and java script are based on libraries built by C++. C++ helps students go a long way in mastering these languages.

Course Outcomes (CO)

Upon successful completion of this subject students should be able to:

CO1: Summarize the OOPS paradigm concepts in C++.

CO2: Describe the basic concepts of classes and objects.

CO3: Be able to program using more advanced C++ features such as composition of objects, operator overloads, dynamic memory allocation, inheritance and polymorphism, exception handling, etc.

CO4: Understand the features of C++ supporting object oriented programming.

Principles of Digital Electronics (C2)

This course allows students to Analyze the internal circuitry of the processor and memory in detail explaining process creation, performance of various calculations, number system, number conversions and K- Mapping techniques. It categorises the mathematical foundation going inside the system for the bits transfer inside the processor, converting sum of product forms into product of sum forms, generating the read-write cycles and memory writing timing diagrams.

Course Outcomes (CO)

Upon successful completion of this course students should be able to:

CO1: Know how digital logic design is used to represent computer systems.

CO2: Illustrate the concept of SOP, POS simplification and NAND, NOR implementations.

CO3: Know concepts of Boolean algebra, its theorems, and its relevance to digital logic design.

CO4: Define different number systems, binary addition and subtraction, 2's complement representation and operations with this representation.

CO5: Design the K-Map for a few variables and perform the reduction of logic function.

CO6: Knowledge of Combinational and Sequential Circuits.

Numerical Methods & Statistical Techniques (C3)

In the field of computing, this course will recommend the students to research and experiment about the statistical details of the data and perform mathematical calculations of the data as well. This gives students complete elaboration to calculate various statistical calculations on data like calculating Mean, Median, and Mode etc. This course extends the critical and analytical strategies in students so that students can pursue their career in research and development.

Course Outcomes (CO)

- CO1:** Skill to choose and apply appropriate numerical methods to obtain approximate solutions to difficult mathematical problems.
- CO2:** Ability to apply various statistical techniques such as Measures of Central Tendency and Dispersion.
- CO3:** Understanding of relationship between variables using the method of Correlation and Trend Fit Analysis.
- CO4:** Skill to execute programs of various Numerical Methods and Statistical Techniques for solving mathematical problems.

Practical – I (Advanced C++ Programming) (C4)

Theoretical Education is 'I KNOW' while Practical Education is 'I CAN DO'. Practical-Learning assists students in identifying their real interests and choosing a career accordingly. The purpose of this course is to enhance the practical knowledge based on the prescribed theory Course.

Learning Outcomes

Student will be able to:-

- CO1:** Compile and execute any C++ Programme.
- CO2:** Develop programs on basic concepts in C++.
- CO3:** Create programs on oops concepts using C++.

Communication Skills in English – II (C5)

It is a personality development course. To make a student confident enough to represent himself/herself to the world students need to learn Communication Skills.

Course Outcomes (CO)

In this Course students will learn:-

- CO1: Listening Skills:-** Ability to understand English when it is spoken in various contexts.
- CO2: Speaking Skills:-** Develop the ability to speak intelligibly using appropriate word stress, sentence stress and elementary intonation patterns.

Punjabi (Compulsory)/Punjab History & Culture (C 320 TO 1000 A.D.) (C6)

To promote mother tongue, Punjabi has been made a compulsory course in BCA-I & II Semester. It is used as a medium language in schools, colleges, and universities in the Indian state of Punjab.

Drug Abuse: Problem, Management and Prevention (Compulsory Paper) (C7)

Today's youth face many risks, including drug abuse, violence, and HIV/AIDS. Drug abuse has serious consequences in our homes, schools, and communities. This course **aims** to educate youth about illicit drug use in an effort to prevent illegal drug use while highlighting the dangers of problematic substance use.

Course Outcomes (CO)

- CO1:** Understand the concept of use, misuse, abuse, dependence, withdrawal and addiction.
- CO2:** Understand physical, psychological, social and economic effects of drug abuse.
- CO3:** Analyse how alcohol and other drugs result in family dysfunction.

PO	PO-CO Mapping										
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11

C1	✓			✓				✓	✓	✓	✓
C2							✓		✓		✓
C3	✓							✓	✓		✓
C4	✓			✓				✓	✓	✓	✓
C5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
C6									✓		
C7									✓		

BCA- Semester-III

Computer Architecture (C1)

This course demonstrates the way the hardware components operate and how they are connected together to form the computer system. This demonstrates the system components, circuit design, logical design, structure of instruction, computer arithmetic, processor control, assembly programming and methods of performance enhancement. This course is especially designed for the students to learn hardware details so that they can work in the Field of Hardware Engineering and be able to develop Hardware Live Projects also. Makes students summarize about the internal mechanism of the Arithmetic Logical Unit inside the processor performing various calculations and manipulations.

Course Outcomes (CO)

Students will be able :

CO1: To understand the functionality, organization and implementation of computer system.

CO2: Skill to recognize the instruction codes and formats.

CO3: Students will have Knowledge of the internal working of main memory, cache memory, associative memory and various modes of data transfer.

CO4: Familiarization with the working of parallel processing and vector processing.

Database Management System (C2)

This course is very significant for the graduate students as it delivers details of database systems and its design. It constructs a big role in all types of industry/institutions because all kinds of necessary data is to be stored in a database. This course also organizes the design and implementation of databases and generates opportunities for students to become data managers. It provides opportunity for future development and research in the field of database techniques like data warehousing and data mining as these are the basic needs of all types of business now and in future.

Course Outcomes (CO)

Upon successful completion of this subject students should be able to:

CO1: Recall the basic concept of DBMS, its architecture, components and models of DBMS.

CO2: Students will know about relational databases and how to normalize data using normalization's concept.

CO3: To know the fundamental concepts of transaction processing management.

CO4: To develop programs and queries based on SQL.

CO5: Contrast the concept of functional dependency, Norm forms, constraints and integrity.

CO6: Able to understand the concept of concurrency control techniques and recovery.

CO7: Know about DBA Duties.

CO8: Familiarization with Joins, View, Indexing, Database packages, Triggers, Big Data, NoSQL.

Introduction to Python Programming (C3)

This course is specially designed for explaining the programming concepts to students. The students apply their own logics in computer system by evaluating complete detail of the programming concept. The complete demonstration of this programme will help students to get through their training projects after placements in MNCs. Students can build up their own Software Projects by using the syntaxes and semantics of this programme. The basic theory of this particular paper will raise the interest of students in other high level programming languages to accomplish the need of becoming a successful Software Developer.

Course Outcomes (CO)

Upon successful completion of this subject students should be able to:

CO1: Outline the basics of python programming, Features, data types and variables.

CO2: Understanding of Python especially Decision control, function and modules.

CO3: Understanding of the file handling and Data Structure.

CO4: Be exposed to object oriented concepts in Python programming, decision controls and function.

CO5: Understand the concept of file, opening, closing, reading and writing files.

CO6: Database manipulations with SQL using MySQL.

Programming Lab – Python (C4)

After studying the python concepts in theory, students will get hands-on experience for programming in python and Write, debug simple Python programs. The purpose of this course is to enhance the practical knowledge based on prescribed theory course.

Learning Outcomes

CO1: Ability to create and execute Python programs.

CO2: Implement Python programs with conditionals and loops.

CO3: Develop Python programs stepwise by defining functions and calling them.

CO4: Understanding the working of file I/O.

Programming Lab – Oracle (C5)

This lab course will provide the practical knowledge to students to work on existing database systems, Understand various advanced queries execution such as relational constraints, joins, set operations, aggregate functions, trigger, views and embedded SQL. It will improve the technical skills of students and make it easier for students to do database connectivity during website development. Students having practical knowledge of SQL can easily build their career in the area of Database administrator in It industry.

Learning Outcomes

CO1: Ability to execute SQL Commands.

CO2: Ability to organize data in the form of tables and can apply various operations on it using SQL queries.

CO3: Skill to write PL/SQL programs.

These skills will be the base of database connectivity which will help the students in web technology courses.

PO	PO-CO Mapping										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C1					✓		✓	✓	✓		✓
C2		✓	✓	✓	✓			✓	✓	✓	✓
C3	✓			✓				✓	✓	✓	✓
C4	✓			✓				✓	✓	✓	✓
C5		✓	✓	✓	✓			✓	✓	✓	✓

BCA SEMESTER-IV**DATA STRUCTURES & FILE PROCESSING (C1)**

Data structure - as the name suggests, tells us how the data is stored. Data structure is a concept that is majorly concerned with the arrangement of and storing of data in an organised fashion. Data Structures is one of the foundation courses in Computer Science. Essentially, it includes concepts such as stacks, queues, graphs, algorithm analysis, sorting algorithms, linked lists, and set implementations (binary search trees and hash tables).

Course Outcomes (CO)

Upon successful completion of this subject students will have :

CO1: Ability to analyse algorithms and algorithm correctness.

CO2: Ability to implement various techniques of link list.

CO3: Ability to describe stack, queue with linked list operation.

CO4: Ability to have knowledge of tree and graphs concepts.

CO5: Ability to summarize searching and sorting techniques.

CO6: Students will understand various searching & sorting techniques.

CO7: Students will familiarize with data structures used for representing data in memory like Arrays, Linked Lists, Graphs, and Trees etc.

CO8: Students will understand the concept of file organization and its various techniques.

INFORMATION SYSTEM (C2)

Information system is not simply about computers, it's about how to use a popular computer package such as Microsoft office. It's about how businesses can make the best use of computer technology to provide information needed to achieve their goals. After learning this course students will come to know about information systems, different elements of information systems and its types. This course is very helpful for the Students who want to build their career in the system analyst, system manager.

Course Outcomes (CO)

Upon successful completion of this course students

CO1: Students will understand the concept of Information system and its importance in the IT Industry.

CO2: Students will understand the categories of Information System (IS) and its various operations

CO3: Students will gain knowledge about various IS like Accounting System, Inventory Control System and Office Automation System.

CO4: Students will understand various phases of the information development life cycle.

INTERNET APPLICATIONS (C3)

The Internet is a vast source of information. Every person in this world is somehow dependent on the Internet. So, students should be aware of how the internet and its various applications work. Students can learn what the Internet is and its applications, how the Internet works, working and managing of email and various web technologies like HTML, DHTML. These are the basis of web development. Students can start building their own websites.

Course Outcomes (CO)

CO1: Comprehensive knowledge of the Internet and its working.

CO2: Ability to use services offered by the internet.

CO3: Skill to develop websites using HTML & DHTML.

SYSTEM SOFTWARE (C4)

This course demonstrates the complete concepts to students about the process generation inside internal architecture of the systems and helps them to understand how processing is being done inside the system.

Course Outcomes (CO)

CO1: Students will understand about the system software and its application.
CO2: Detailed knowledge of the Compilation process of a program.
CO3: Knowledge of internal working of macro processor.
CO4: Familiarization with Assembly language.
CO5: Understanding the working of linkers and loaders – components used during the process of program execution.

Lab – Data Structures Implementation using C++ (C5)

After learning the theory of data structures, students will implement the data structures in C++ which was taught to students in the second semester. It will make it easier for students to implement the data structure algorithms quickly.

Learning Outcomes

Student will:

- CO1:** Design programs on linear data structure.
- CO2:** Develop programs on nonlinear data structures.
- CO3:** Able to implement various kinds of searching and sorting techniques using C++.

Lab – Web Designing and use of Internet (C6)

In this lab, students will create web pages using HTML concepts learnt in the theory. Student will be able to create HTML pages with frames, links, tables and other tags. After Getting a hand on Experience of Creating and designing Websites ,Students can pursue following job profiles:

- Web Designer
- Web Developer
- Graphic Designer

Learning Outcomes

- CO1:** Students will Understand, Analyze and create web pages using HTML, DHTML and Cascading Styles Sheets.
- CO2:** Students can create their own websites.

Environmental Studies (Compulsory) (C7)

The main objective of this course is :

- To create awareness about environmental issues.
- To nurture the curiosity of students particularly in relation to the natural environment.
- To develop an attitude among students to actively participate in all the activities regarding environment protection

Course Outcomes (CO)

CO1:After studying this course students will have Critical thinking in relation to environmental affairs and Understand about interdisciplinary nature of environment.

PO	PO-CO Mapping										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C1	✓			✓				✓	✓		✓
C2			✓		✓			✓	✓		✓
C3		✓			✓		✓	✓	✓		✓
C4					✓			✓	✓		✓
C5	✓			✓				✓	✓		✓
C6		✓			✓		✓	✓	✓		✓
C7								✓	✓		

BCA- Semester-V

Computer Networks (C1)

This course inculcates the complete formulation of networking in students which is the most essential and advantageous in the present scenario of internet and networking. Complete understanding of the specified course provides students with the information of various network topologies, network protocols, network essentials and network controlling. This Course will help students to get proper information about many network devices and compare their uses so that students can use them in the real world also. Students will thoroughly elaborate the transmission media and compare different LAN, MAN and WAN topologies. Studying the detailed information about the internet protocols will increase the ability of students to work in the real networking development techniques.

Course Outcomes (CO)

CO1: Students will learn Networking concepts; Transmission Media, Network Protocols, Network Security and Privacy, Network Services etc.

CO2: Understand the working of each OSI model layer TCP/IP Model.

CO3: Knowledge of uses and services of Computer Network.

CO4: Ability to identify types and topologies of networks. Familiarization with the techniques of Network Security.

CO5: Students will understand various routing algorithms in Network layer to route the packet and Explain the features of Application and Transport layer

WEB TECHNOLOGIES (C2)

This course is highly recommended for the provision of demonstration to the students about website development and software development which will highly increase their opportunities to work in industries. This course is the combination of many server side and client side programming languages like html, CSS, Java Script, ASP.net and PHP for the successful establishment of Website or Software. Students will get through the internal knowledge of back-end and front-end processes using which they will be able to design their own websites or software. This course illustrates information about the database connectivity along with the given front end website or software so that the students can learn about the data transfer procedures from frontend to back-end and vice-versa.

Course Outcomes (CO)

Upon successful completion of this course students

CO1: Have Ability to develop web pages using HTML and Cascading Style Sheets.

CO2: Knowledge of client-side (JavaScript) and server-side scripting (PHP).

CO3: Develop programs using PHP.

CO4: Familiarization with Web Application Terminologies, Internet Tools, E – Commerce and other web services.

CO5: Students have Ability to do database connectivity with MYSQL.

CO6: Learn about emerging technologies like Internet of things, Block chain Technology in websites, Artificial Intelligence, Machine learning etc.

OPERATING SYSTEM (C3)

This course demonstrates the importance of computer system resources and the role of operating systems in their management policies to get a better understanding about the concept of various Process Management Techniques under different operating systems available. The course gives detailed description about the process and functions of the operating system in order to schedule, manage and control the processes going inside the system. The study of operating systems helps students to analyse the memory management and its allocation policies which is the prime factor of consideration in every operating system.

Course Outcomes

After studying an operating system in BCA:-

CO1: Understand what an operating system is and the role it plays.

CO2: Understand the structure of operating systems, applications, and the relationship between them.
CO3: Have knowledge of the services provided by operating systems.
CO4: Students should be able to use system calls for managing processes, memory and the file system.
CO5: The student understands thoroughly the internal structures of processes and threads, what mutual exclusion is, how to synchronize processes and avoid deadlocks, and how to schedule processes by scheduling algorithms and Memory Management concepts.

JAVA Programming Language (C4)

JAVA is popular for website and Software Development and this course formulates a basic core and advanced both types of technical information about JAVA Language. Students get to learn about the basic concepts of object oriented programming and basic as well as advanced Java Programming constructs. This programme enables students to implement the constructs and structure of the Java Programming Language in the successful creation of Java Applets and Java Servlets. This programme is highly recommended for students in order to pursue a career in software development in various MNCs in India and Abroad as well. The Specialization of this will increase the opportunities for students to get jobs in the field of programming, website and software development, software testing etc.

Course Outcomes (CO)

Upon successful completion of this subject students should be able to:
CO1: Understanding the concept of programming paradigms, basic concept of object oriented programming and features of java.
CO2: Enhance the practical knowledge of decision making statements and control statements.
CO3: Illustrate the concept of Inheritance, Constructor, operator overloading in java.
CO4: Evaluate the concept of array, string, function, class and object.
CO5: Students will learn the syntax and semantics to write Java programs
CO6: create packages and interfaces.
CO7: Implement error handling techniques using exception handling.

Lab based on Website Designing using HTML, JavaScript and PHP (C5)

The objective of this lab course is that Students will gain the web design knowledge, skills and project-based creativity which is needed for entry into web design and development careers.

Course Outcomes (CO)

At the end of the course, student will be able to:
CO1: Be acquainted with elements, Tags and basic structure of HTML files.
CO2: Develop the concept of basic and advanced text formatting.
CO3: Practice Hyper linking, Designing of web page-Document Layout, working with List, Working with Tables, working with Frames, Forms.
CO4: Prepare creating style sheet, CSS properties, Background, Text, Font and styling etc.
CO5: Working with List, HTML elements box, Positioning and Block properties in CSS.
CO6: Create web pages using HTML and CSS.
CO7: Design programs to validate HTML pages using java script.
CO8: Develop simple web application using server side PHP and database connectivity using MySQL.

PO	PO-CO Mapping										
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C1					✓		✓	✓	✓	✓	✓
C2		✓		✓				✓	✓	✓	✓
C3					✓			✓		✓	✓
C4	✓			✓	✓			✓	✓	✓	✓
C5	✓	✓		✓					✓	✓	✓

BCA-SEMESTER-VI

Computer Graphics (C1)

This course demonstrates the detailed knowledge of Computer Screen and Audio Visual Aids to Students. Students will get to know about the details of Image Resolution, Pixels, Bitmap and Pixel Map which helps them to understand the process of Image Processing. Computer Graphics is a kind of Programme that enables students to understand the working of CRT, LCD and LED Displays so that they can design the screen graphics according to it. This helps students to get through the techniques of creating many Graphical Scenes and Scenes with Motion also which greatly helps them to create different live projects and work under various MNCs.

Course Outcomes (CO)

On successful completion of this course students will be able to:

CO1: Students will get the concepts of Graphics display devices, different types of graphics drawing algorithms.

CO2: Students will get the concepts of 2D and 3D Geometrical Transformations.

CO3: Students will get the concepts of clipping.

CO4: Students will get the concepts of Hidden Line/surface elimination techniques.

CO5: Implement 2D geometric transformations on computer system.

CO6: Projection and its types.

Software Engineering (C2)

Software engineering is the practice of creating software. Members of this profession are called software engineers, programmers, developers, or practitioners. Today Software engineering is the most promising and advanced field in the market. Software engineering covers not only the technical aspects of building software systems, but also management issues, such as directing programming teams, scheduling and budgeting.

Software engineering graduates will typically go on to find employment in the following areas: software engineer, software developer.

Course Outcomes (CO)

Upon successful completion of this subject students should be able to:

CO1: Demonstrate fundamentals of software engineering and various process models.

CO2: Understand Software development life cycle model and its phases.

CO3: Understand role of metrics and measurement in software engineering and different types of metrics.

CO4: Summarize the formation of SRS document and Software design process.

CO7: Illustrate the process of function oriented software design and user interface design.

CO8: Understands guidelines that will help programmer to produce an executable code from a given design so that less time is spent in testing and maintenance

CO9: Understand the importance of software testing and its types.

C10: Explain the software quality process.

C11: Outline the software maintenance.

PROJECT (C3)

The Bachelor of Computer Applications (BCA) programme is designed with the objective to prepare the students to take up positions in IT industries as programmer, systems designers, software engineers, etc. Six months' major project is part of the curriculum in the last semester of BCA.

The project will enable students to identify the requirements for the real world problems and correlate them which will make them able to develop software solutions for them. Project Modules make students learn logically and analytically so that they can pursue their career in the field of Software Development in different MNCs and industries. Students can develop Projects as Websites and Software in various different languages like JAVA, PHP .The objective of the project is to help the student develop the ability to apply theoretical and practical tools / techniques to solve real life problems related to industry, academic institutions and research laboratories. Students can make projects based on any language according to their field of interest which they have learnt in previous semester. In the major project students Will be able to develop a software product along with its complete documentation.

PO											
PO-CO Mapping											
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
C1								✓			✓
C2	✓	✓		✓		✓		✓			✓
C3	✓	✓	✓	✓		✓		✓	✓	✓	✓

MSc-COMPUTER SCIENCE

A Master's degree is a good way to gain advanced knowledge and practical knowledge about Computers. MSc. in Computer Science also makes students eligible for teaching positions in colleges and institutions providing higher education. One can also opt for conducting research in this field. This degree assures students a stable job opportunity in the field of computer software. When students have completed their bachelors in computer science then it will become easy for students to master in the same field.

Program Outcomes

Sr. No.	Computer Career	Description	Required Skills
PO1	Software Developers	<p>Software developers are creative professionals who design, test, and develop applications that help people do their jobs.</p> <p>They also ensure that these programs function properly, recommend software upgrades, and collaborate with other computer specialists to create the most appropriate software for the job.</p>	<p>Technical skills required for software developers are:</p> <ul style="list-style-type: none">● Advanced Data Structures and Design and Analysis of algorithms.● Programming languages advanced● Advanced Web technology(HTML, CSS, JAVA SCRIPT, ASP.NET, ADO.NET)● Advanced Software Engineering.● Object Oriented Modelling, Analysis and Design

<p>PO2</p>	<p>Computer Programmer</p>	<p>A computer programmer is a skilled professional who makes programs with help of codes in detailed instructions that devices must follow in order to perform their functions</p>	<p>In general, all programmers need the following skills to be successful:</p> <ul style="list-style-type: none"> ● Advanced Data Structure ● HTML, CSS, JavaScript, SQL, ASP.NET ,PHP,JAVA, ● Design and analysis of algorithms.
<p>PO3</p>	<p>Web Designer/web developers</p>	<p>M.Sc. candidates can opt for web development as a solid career choice.</p> <p>The web developer job after M.Sc. primarily involves the creation and maintenance of websites.</p> <p>A Web developer is typically concerned with the back end or programming aspects of developing a website or Web application, as opposed to a Web designer, who is only concerned with the aesthetics of a website.</p>	<p>A web developer must have following skills</p> <ul style="list-style-type: none"> ● HTML ,JavaScript, CSS, PHP, Asp.net , SQL etc.
<p>PO4</p>	<p>Data Mining analyst/Data Warehouse Manager</p>	<p>Data mining analyst performs tasked with a variety of responsibilities with an organisation such as data analysis,mining data,model relationships etc.</p>	<ul style="list-style-type: none"> ● This position requires in-depth knowledge of Data Mining and Data Warehouse.

<p>PO5</p>	<p>Network Engineer</p>	<p>Network engineers or network architects are responsible for planning, constructing, and managing networks to establish their proper optimising and functioning. Also, network engineers do the work of founding an organisation's IT system. The average salary of a network engineer in India is 3.4 lakhs per annum.</p>	<p>For a network engineer one should have the knowledge of</p> <ul style="list-style-type: none"> ● Troubleshooting skills ● Network design and performance analysis skills ● Network programming skills.
<p>PO6</p>	<p>Jobs in Govt. Sector</p>	<p>Government sector has a lot of job openings for aspirants who have earned an M.Sc. in Computer Science degree. Some of the common areas and job profiles where students can utilise their abilities include the following Application Development</p> <ul style="list-style-type: none"> ● Database Administrator ● Database Manager ● IT Manager ● Software Developer ● Software Engineer ● Data Mining Analyst 	<p>Computer Fundamentals, MS Word, Excel, and PowerPoint Applications, Computer Programming, Software Engineering, Data Mining and Computer Architecture, network design skills, Distributed database systems. etc.</p>

PO7	Cloud Developer/ Cloud Administrator	Cloud administrator is responsible for system configuration management and cloud developer is responsible for building scalable applications using cloud	For this profile one must have good knowledge following <ul style="list-style-type: none"> ● Cloud computing ● System software ● Distributed database system.
PO8	Data Scientist	It involves extracting actionable insights from raw data. Various scientific methods, algorithms, and processes are used to extract insights from vast amounts of data. Data Science provides a vast array of tools for working with data coming from a variety of different sources, such as financial logs, multimedia files, marketing forms, sensors, and text files. An important aspect of Data Science is the preparation of data for analysis, including cleaning, aggregating, and manipulating it to perform advanced analyses.	For this job profile person should have knowledge about following: <ul style="list-style-type: none"> ● Soft Computing ● Image Processing ● Concepts of discrete Mathematics

PO9	Jobs in Indian Railways	<p>Indian Railways also offer a lot of job opportunities for aspirants who have completed M.Sc. in Computer Science degree. Railways will conduct certain exams for the purpose of recruiting these people. The most common job profiles for these people in the railways include the following.</p> <p>Technical assistant, Computer operator</p>	Computer Networking, Computer Basics, Linux/Unix Commands, Programming, Basic Hardware Knowledge, Database Skills.
P10	Assistant Professor	<p>After M.Sc. individuals can apply for assistant professors jobs for teaching in colleges. They can become professors in government colleges by clearing the National Eligibility Test after M.Sc. Computer science.</p>	M.Sc.
P11	Further Studies after M.sc	Ph.D.	M.Sc.
Prerequisite			

1. Graduation with Computer Science/IT/ Computer Application/Computer Maintenance as one of the elective subjects with 50% marks in aggregate. ORB.C.A./B.Sc. (IT) B.I.T. of GNDU or equivalent examination with 50% marks in aggregate. OR Graduation with Maths as Elective Subject and Post Graduate Diploma in Computer Application / Post Graduate Diploma in Information Technology / Post Graduate Diploma in Information in E-Commerce & Internet Application or Equivalent examination with 50%marks in aggregate
2. Students must have good reading and writing skills in English.
3. Students should have the ability to think logically.

MSC Semester-I

ADVANCED DATA STRUCTURES(C1)

Data structures are amongst the most fundamental ingredients in the recipe for creating efficient algorithms and good software design. Knowledge of how to create and design good data structures is an essential skill required in becoming an exemplary programmer. This course will teach students how to master the fundamental ideas surrounding data structures.

Course Outcomes (CO)

CO1: Students will learn fundamental concepts of asymptotic notations of an algorithm, Space & Time Complexity, Searching & Sorting Algorithms, Divide and Conquer techniques.

CO2: Students will know various design and analysis techniques such as greedy algorithms, Dynamic programming.

CO3: Students will understand the techniques used for designing different graph algorithms and string matching algorithms.

CO4: Students will learn how to apply backtracking.

CO5: Students will know the concepts of search and traversal techniques.

ADVANCED COMPUTER ARCHITECTURE(C2)

Computer architecture is an important course in computer science. Computer architecture deals with the design of a processor and all its supporting peripherals such as main memory, cache memory etc. It also discusses pipelining, which is an important method used to increase the processing speed of processors. Then, cache memory and different levels of cache memory are also discussed. Various caching methods are also taught in the computer architecture course. It's an interesting course taught at the post-graduation level and one can learn a lot. So being a computer science student, it's an important course as it gives a good knowledge about how our computers work and how our codes are actually executed by the machine at the hardware level. This subject explores how machines are designed, built, and operate.

Course Outcomes(CO)

At the end of this course student will:

CO1: Understand the Concept of Parallel Processing and its applications.

CO2: Analyse the performance of different scalar Computers.

CO3: Develop the Pipelining Concept for a given set of Instructions.

CO4: Distinguish the performance of pipelining and non-pipelining environments in a processor.

Network Design & Performance Analysis(C3)

This course covers the details of network design and the design process. Starting from requirement specifications, a detailed flow analysis is introduced. Examples of different network architecture designs like LAN will be introduced. Students will also understand the concept of traffic engineering in network and capacity planning.

Course Outcomes(CO)

After completion of this course:

CO1: Students will understand the network requirements, planning.

CO2: Students will understand traffic engineering and traffic planning.

CO3: Students will understand N/W design layers, Access N/W design, access n/w capacity, Backbone of n/w design, Backbone segments, backbone capacity, topologies, Tuning the network, securing the network, Design for network security.

Discrete Structures(C4)

The purpose of this course is to understand and use discrete structures that are backbones of computer science. This course is meant to introduce logic, proofs, sets, relations, functions, counting, and probability, Rings and Boolean algebra with an emphasis on applications in computer science.

Course Outcomes(CO)

After completing this course students will:

CO1: know the concepts of sets, relations and functions.

CO2: know the concept of permutations & combinations.

CO3: Design, analyse and implement the concepts of homomorphism and isomorphism between groups and rings for solving different types of problems, for example, Isomorphism theorems.

SOFT COMPUTING(C5)

The main objective of the course is to expose the students to soft computing, various types of soft computing techniques, and applications of soft computing.

Course Outcomes(CO)

After successfully completing this course, students will be able to:

CO1: Understands the concept of neural network and its architecture.

CO2: Students will understand the concept of perceptron and perceptron training algorithms.

CO3: Understand the concept of supervised and unsupervised learning.

CO4: Understand the concept of fuzzy logic and fuzzy sets, fuzzy relations, fuzzy graphs, fuzzy arithmetic and fuzzy if-then rules and Applications of fuzzy logic.

CO5: Understands concept of probability theory, conditional probability, Baye's theorem, fuzzy logic and its relationship with probability theory.

PROGRAM OUTCOMES(PO)/COURSE(C) OUTCOMES MAPPING

PO/ C	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P10	P11
C1	✓	✓			✓	✓		✓	✓	✓	✓
C2					✓					✓	✓
C3					✓	✓				✓	✓
C4	✓	✓		✓		✓			✓	✓	✓
C5						✓		✓		✓	✓

MSC Semester-II

THEORY OF COMPUTATION(C1)

Computers and software work on programs and algorithms. A problem can be approached through various ways but the most efficient way to solve a problem is what theory of computation does. Hence, The theory of computation is a branch of computer science and mathematics combined that "deals with how efficiently problems can be solved on a model of computation, using an algorithm". As the name suggests the theory of computation where computation here describes various models of mathematics to solve any problem which states that if you can solve the problem by a mathematical model like the Turing **machine** then the problem is also solvable by the computer. In short, if you can solve any practical problem mathematically then you can also solve it on Computer.

Course Outcomes(CO)

After completing this course, students will be able to:

CO1: Understands the concept of formal languages, and grammars, Regular Expressions, Context Sensitive Languages; The Kuroda Normal Form, One sided Context Sensitive Grammars.

CO2: Understands the basic concepts of deterministic and non-deterministic finite automata, regular language, context-free language, Turing machines.

CO3: Understands concept of Formal Properties of LL(k) and L.R.(k) Grammars.

Image Processing(C2)

Digital Image Processing is a crucial subject for processing digital images by means of a digital computer. This subject provides in- depth knowledge of electronic systems for image transmission and storage, computer processing and recognition of pictorial data, and overview of practical applications. This course is applied in other fields such as automotive sector, image enhancing, robotics, gaming, human machine interface etc.

Course Outcomes (CO)

CO1: Students will learn about electronic systems for image transmission and storage.

CO2: Students will learn Mathematical and perceptual preliminaries, human visual system model, image signal representation, imaging system specification building image quality, role of computers, image data formats.

CO3: Students will learn Mathematical and perceptual preliminaries, human visual system model, image signal representation, imaging system specification building image quality, role of computers, image data formats.

CO4: Students will learn colour image signal representation, colour system transformations, extension of processing techniques to colour domain.

Design & Analysis of Algorithms(C3)

Algorithms are the soul of computing. It can be roughly described as creating "recipes" (well defined sequences of computational steps) for getting "things" (computational problems specifying an input-output relation) "successfully" (correctly) "done" (in finite steps and time). Algorithm design and analysis provide the theoretical backbone of computer science and are a must in the daily work of the successful programmer. The goal of this course is to provide a solid background in the design and analysis of the major classes of algorithms.

Course Outcomes(CO)

After successfully completing this course, students will be able to:

CO1: Students will learn fundamental concepts of asymptotic notations of an algorithm, Space & Time Complexity, Searching & Sorting Algorithms, Divide and Conquer techniques.

CO2: Students will know various design and analysis techniques such as greedy algorithms, Dynamic programming.

CO3: Students will understand backtracking technique and various searching and traversal techniques.

CLOUD COMPUTING(C4)

Cloud Computing is a branch of computer science that covers management, storage and processing of data on networks of the internet server. Cloud computing offers a wide range of career options to the aspirants due to the constant demand for employees in the field of cloud computing. One can pursue a career as software engineer, cloud architect, data engineer, java developer, cloud developer and much more, not only in India but also abroad due to the course being popular globally.

Course Outcomes(CO)

This course will enable to student to have:

CO1: A clear definition of what Cloud Computing is.

CO2:A comprehensive understanding of Virtualization: Definition, Type of Virtualization, Benefits, Limitations.

CO3:An understanding of Cloud Computing models and cloud security.

CO4:An understanding of advanced cloud computing concepts like Energy Efficiency in cloud, Market Oriented Cloud Computing, Big– Data Analytics, Federated Cloud Computing.

DISTRIBUTED DATABASE SYSTEM(C5)

A distributed system is a software system in which components located on networked computers communicate and coordinate their actions by passing messages. The components interact with each other in order to achieve a common goal. Distributed applications (distributed apps) are applications or software that runs on multiple computers within a network at the same time and can be stored on servers or with cloud computing.

Course Outcomes(CO)

CO1: Students will understand the basic concepts of Distributed Database and its comparisons with a centralized system.

CO2: Students will understand Representation of database operation in form of a query, operation in form of a query, operations on aquery, unary and binary tree in a query.

CO3: Students will understand Properties and goals of transaction management, distributed transactions, recovery mechanism in case of transaction failures, log based recovery, check pointing, and communication and site failures in case of a transaction and methods to handle them, serializability and timestamp in distributed databases.

CO4: Students will understand the concept of query optimization.

CO5: Students will understand about distributed deadlocks.

Programming Laboratory – II**Design & Analysis of Algorithms (Lab)(C6)**

After learning Design and analysis of algorithms in theory,students will implement algorithms in C/C++ language.This course will improve the logic ability of students.

Course Outcomes(CO)

On completion of this course, the students are able to:

CO1: Solve problems by applying appropriate algorithms.

CO2: Analyze the efficiency of various algorithms.

CO3: Apply techniques of stacks and queues to solve problems.

CO4: Develop a program that can be solved in many ways using different techniques.

PO/ C	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	P10	PO11
C1		✓								✓	✓
C2				✓						✓	✓
C3	✓	✓			✓	✓				✓	✓
C4							✓			✓	✓
C5						✓	✓			✓	✓
C6	✓	✓			✓	✓				✓	✓

SEMESTER-III

ADVANCED SOFTWARE ENGINEERING(C1)

Software Engineering is a detailed study of designing, writing, testing, implementing and maintaining software. Software Engineering is the backbone of all software systems. The study of Software Engineering helps the Software Engineer/ Developer to apply best processes and techniques to develop high-quality software. Software engineering is important because specific software is needed in almost every industry. Software engineering is the application of engineering principles to computer hardware and software.

This course assists in the development and maintenance of reliable, useful and dependable software.

Course Outcomes

After successfully completing this course, students will be able to:

CO1: Students will understand Software project management techniques.

CO2: Students will know the concept of software Re -engineering.

CO3: Students will understand the concept of Object-Oriented (OO) Measurements.

CO4: Students will understand What is Object-Oriented Design ?, Object, Abstraction, Collaboration among Objects, Polymorphism, Classes, Specifying State, Specifying Behavior, Class Relationships, Grouping, Hiding.

SYSTEM SOFTWARE(C2)

This course demonstrates the complete concepts to students about the process generation inside internal architecture of the systems and helps them to understand how processing is being done inside the system.

Course Outcomes(CO)

CO1: Students will understand about the system software and its application.

CO2: Detailed knowledge of the Compilation process of a program.

CO3: Knowledge of internal working of microprocessor.

CO4: Familiarisation with Assembly language.

CO5: Understanding the working of linkers and loaders – components used during the process of program execution.

DATA MINING AND WAREHOUSING(C3)

Data Warehousing and Data Mining make up two of the most important processes that are quite literally running the world today. The process of collecting, storing and organising information in a single database is considered to be Data Warehousing. Data Mining is mostly extracting meaningful information from the data using a different perspective. This course helps the students to understand the overall architecture of a data warehouse and methods for data gathering and data pre-processing using OLAP tools. The different data mining models and techniques will be discussed in this course. The main objective of this course is to prepare the students for building a career in data warehousing and data mining areas.

Course Outcomes(CO)

After completing this course the student must demonstrate the knowledge and ability to:

CO1: Learn data warehouse principles, data mining concepts and working.

CO2: Understand various data pre-processing procedures and their application scenarios.

CO3: Discuss the data-mining tasks like classification, regression, clustering.

CO4: Students will be able to understand data warehouse architecture, data cubes and data marts concept, OLAP & OLTP technology.

CO5: Students will understand how to extract knowledge from data and various predictive models of data mining.

CONCEPT OF CORE AND ADVANCED JAVA(C4)

As the Java language was designed to facilitate object oriented programming, so course will begin with a thorough coverage of Features, Objects Oriented Basis, Java Virtual Machine, Character Set, Operators, Data Types, Control Structures, classes/objects and

the concepts of inheritance, encapsulation, and polymorphism. Then advanced topics including input/output streams, multi-threading Applets will be cover.

Course Outcomes(CO)

After completion of this course:

CO1: Students will understand Java Fundamentals: Features, Objects Oriented Basis, Java Virtual Machine, Character Set, Operators, Data Types, Control Structures

CO2: Students will understand the concept of Classes, Inheritance, Polymorphism, Packages & Interfaces, Stream IO Classes, Exception Handling.

CO3: Students will design and implement programs in the Java programming language that make strong use of classes and objects.

CO4: Students will learn java applets and concept of multithreading.

NETWORK PROGRAMMING(C5)

Networking and programming careers are both part of the computer science field. Networking focuses on managing and maintaining existing computer systems. Meanwhile, programming focuses on continuously coding to develop new or update existing computer systems. For example, if a professional worked as a computer network specialist, they might analyze the performance or security of a computer system. Then, a computer programming specialist may use the results to code updates to help improve the performance and security of the system. Although they focus on different things, they can work together to ensure computer systems run smoothly.

Course Outcomes(CO)

After successfully completing this course, students will be able to:

CO1: Students will understand the concept Sockets and Socket Address structures, zombies, Protocol Independence, OSI Model, Unix standards.

CO2: Students will understand TCP Connection establishment & Termination, Port Numbers and Concurrent Servers, Protocol Usage by common Internet Applications.

CO3: Students will understand UDP Communication Semantics, UDP Echo Server, Echo Client working, Protocol Usage by Common Internet Applications.

CO4: Students will understand Byte ordering & Manipulation Functions, TCP Socket System Calls, TCP, Client-Server E.g., I/O Multiplexing, Signal Handling in Concurrent Servers, Socket Options, Elementary Names Address Conversions, Ipv4 and Ipv6 Interoperability.

Programming Laboratory based on Advanced Java and Network Programming(C6)

This programme enables students to implement the constructs and structure of the Java Programming Language in the successful creation of Java Applets and Java Servlets. This programme is highly recommended for students in order to pursue a career in software development in various MNCs in India and Abroad as well. The Specialization of this will increase the opportunities for students to get jobs in the field of programming, website and software development, software testing etc.

Course Outcomes(CO)

Students will be able to:

CO1: Students will design and implement programs in the Java programming language that make strong use of classes and objects.

CO2: able to apply object oriented programming features and concepts for solving given problem.

CO3: able to use java standard API library to write complex programs.

CO4: able to implement object oriented programming concepts using java Applets.

PROGRAM OUTCOMES(PO)/COURSE(C) OUTCOMES MAPPING

PO/ C	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO 9	PO1 0	PO1 1
C1	✓	✓				✓				✓	✓
C2	✓	✓			✓	✓			✓	✓	✓
C3				✓						✓	✓
C4	✓					✓				✓	✓
C5					✓					✓	✓
C6	✓				✓	✓				✓	✓

SEMESTER-IV

Microprocessor and Its Applications(C1)

Microprocessor is a combination of two words (Micro + Processor) which means a processor which is small in size but performs various processing operations like arithmetic & logical operations. Being an engineer, microprocessor is an important topic to study as it deals with the basic knowledge of modern technology of recent processors like Pentium III, Pentium IV etc. Microprocessor is helpful for electronics, electrical as well as computer science students as today's wide applications consist of controlling circuits, machines etc. using microprocessor and microcontrollers. The aim of this course is to give the students basic knowledge of the microprocessors (8085 and 8086) needed to develop the systems using it.

Course Outcomes(CO)

After completing this course the student must demonstrate the knowledge and ability to:

CO1: Understand the basic architecture of 8085 and 8086.

CO2: Impart the knowledge about the instruction set.

CO3: Understand the basic idea about the data transfer schemes and its applications.

CO4: Understand the basic architecture of 8085 and 8086.

CO5: Understands about Memory Interface of 8086/8088 Microprocessor:

Object Oriented Modelling, Analysis and design(C2)

Object Oriented Analysis and Design is at the core of software development processes. Hence all software development companies have a need for the same. These include – Microsoft, Samsung, Xerox, Yahoo, Google, IBM, TCS, Infosys, Amazon, Flipkart, etc. This course teaches students the basic principles of object orientation and OO analysis and design.

Course Outcomes(CO)

Students will be able to :

CO1: Recognize the concepts and principles of object oriented programming concepts.

CO2: Understand the purposes, major components and key mechanisms of Class and Object Diagram.

CO3: Understand data flow diagrams.

CO4: Knowledge on State-chart Diagram.

Advanced Web Technologies(C3)

Learning Web Technology is essential today because Internet has become the number one source to information, and many of the traditional software applications have become Web Applications. That's why STUDENTS need to know basic Web Programming, including HTML, CSS and JavaScript. To create more powerful Web Sites and Web Applications students also need to know about Web Servers and Web Frameworks like PHP, ASP.NET etc.

Course Outcomes(CO)

Upon successful completion of the course, the student will demonstrate the ability to:

CO1: Understand the major areas and challenges of web programming.

CO2: Distinguish web-related technologies.

CO3: Use advanced topics in HTML5, CSS3, JavaScript

CO4: Use a server-side scripting language, PHP

CO5: Understand the ASP.NET page structure

CO6: Design web application with variety of control.

CO7: Use Microsoft ADO.NET to access data in web Application.

Programming Laboratory based on Advanced Web Technologies using ASP.NET(C4)

Learning Web Technology is essential today because Internet has become the number one source to information, and many of the traditional software applications have become Web Applications. That's why STUDENTS need to know basic Web Programming, including HTML, CSS and JavaScript. To create more powerful Web Sites and Web Applications students also need to know about Web Servers and Web Frameworks like PHP, ASP.NET etc.

Course Outcomes(CO)

Post Graduate Diploma in Computer Application (PGDCA)

PGDCA Full Form is Post Graduate Diploma in Computer Application. PGDCA course duration is a 1 year focusing on advanced theoretical and development knowledge on Computer Science and computer applications in the field of Information Technologies for students from all backgrounds.

Why Study PGDCA?

There are numerous reasons that support the idea of taking up PGDCA as a career option. Listed below are a few of the top reasons to pursue PGDCA courses,

- **Less Time Consuming:** PGDCA is a 1 year Post graduate program, which makes it a viable career option as compared to other similar courses like M.Tech or MCA whose duration is for 2 years. PGDCA courses consist of a comprehensive curriculum which not only saves time but also will help you give a tough competition to students from other courses.
- **Low Saturation Level:** For any professional courses students generally opt for a Master's degree over a Diploma degree, thus making PGDCA courses a great career choice, in terms of its competition which is relatively low as compared to other professional courses.
- **Preferential Biasness:** Companies while hiring fresh graduates would any day prefer a PGDCA over a B.Tech graduate, simply because of the fact that a B.Tech Graduate would expect more salary package than a PGDCA scholar, which would help the company, cut down its expenditure cost to a significant extent.

Program Outcomes (PO)

PO Code	Computer Career	Description	Required Skills
PO1	Computer Programmer	The job role involves defining, coding, testing, analyzing and maintaining new software applications.	The skill set includes the problem-solving approach, software design and development knowledge, analyzing information, and the C language.
PO2	Web developer/ Web Designer	A web developer is a programmer who specializes in the development of world wide web applications. The role of a web developer is to build and maintain websites.	A web developer must have skills in HTML, CSS etc.
PO3	Database Administrator (DBA)	DBA manages the database software to store, organize and access the data successfully.	This position requires in-depth knowledge in DBMS, SQL.
PO4	Graphic Designers	Graphic designers create visual concepts, using computer software or by hand, to communicate ideas that inspire, inform, and captivate consumers. They develop the overall layout and production design for applications such as advertisements, brochures, magazines, and reports	A graphic designer must have skills in CorelDraw , Photoshop
PO5	Teacher	For teaching in Schools as a Computer Teacher.	This position requires in-depth knowledge about Computer Fundamentals, MS Word,

			Excel, and PowerPoint Applications and all other subjects according to their interest.
PO6	Jobs in Govt. Sector	After PGDCA, one can appear for government exams like Technical Assistant, Computer Operator, IT Manager & IT Assistant, Railway exams, SBI PO, LIC, etc., and get hired in the government division. Knowledge of computer applications is required in all these fields.	For working in any government sector one must have good knowledge of MS Office which includes MS Word, MS Excel, MS Power Point, database management system, networking concept, Internet applications. Students can learn these skills throughout PGDCA.
PO7	Further Studies after PGDCA	Students choose to go for higher courses after PGDCA, such as MSc IT, MCA, MSc CS.	PGDCA

PGDCA- Semester-I

PC Computing-I (MS Office) 2003 (C1)

The main objective of the course is to give students an in-depth understanding of why computers are essential components in business; education and society and provide hands-on use of Microsoft Office applications Word, Excel and PowerPoint.

Course Outcomes (CO)

At the end of this course the student shall be able to:

CO1: Understand the basic terminology of computers.

CO2: Understand the practical concepts of MS Word, MS Excel, MS PowerPoint, and MS Access.

CO3: In MS Word students will be able to apply pre-designed Styles and format text with fonts and colours. Work with bullets, indents and line spacing. Insert pictures and screenshots. Set up page layout for margins, columns and printing.

CO4: In MS Excel students will learn how to create a Pivot Table, how to enter basic formulas and calculations, Absolute and relative references, rounding numbers and printing sheets in Excel.

CO5: In MS PowerPoint students will Learn the basics of working with slides, how to cut, copy, paste, and format text, how to apply a theme and Transitions to your slides.

PC Computing-II (Professional DTP) (C2)

In this course students will study CorelDraw and Photoshop applications. CorelDraw and Photoshop are graphic based applications widely used for logo designing, brochure, pamphlet, product box pack, designing a visiting card design and for various advertisements and editing jpeg and other image formats related to graphic designing. The course is in high demand for those who wish to make their career as Graphics Designer As the Demand of Graphics is increasing day by day in media, print, web etc., there are more prospects for job and self-employment too.

Course Outcomes (CO)

CO1: This course will equip participants with the basic knowledge of CorelDraw and Photoshop Graphics Suite.

CO2: By the end of the course, students will be familiar with the CorelDraw workspace, tools, panels, basic techniques and gain an insight into the techniques of creating and manipulating vector (design) objects, shapes and colour fills.

CO3: They will also be able to work with artistic text for the creation of logos, labels and any other one page print design material.

FUNDAMENTALS OF COMPUTER & OPERATING SYSTEMS (C3)

The main objective of this course is to introduce students with basic concepts of Operating System, its functions and services, and to make the students understand and learn the basics of computers and how to operate it. Through this course students will make familiar with the part and function of computer, its types, how to use computer in our day to day life, its characteristics, its usage, Limitations and benefits etc.

Course Outcomes (CO)

After studying this course, students should be able to:

- CO1:** Understand the basic terminology of computers and definition of computer system.
- CO2:** Making the students understand and learn the basics of computers and how to operate them.
- CO3:** Learn about working of various input and output devices.
- CO4:** To introduce students with basic concepts of Operating System, its functions and services.
- CO5:** Understand various features and applications of the Windows operating system.
- CO6:** Acquire knowledge about various Unix commands.

Database Management System through Oracle-10g & System Analysis & Design (C4)

The aim of this course is to provide the knowledge of computerized data keeping systems, knowledge of performing various operations on such systems for the management and manipulation of data.

Course Outcomes (CO)

Upon successful completion of this subject students should be able to:

- CO1:** Recall the basic concept of DBMS, its architecture, components and models of DBMS.
- CO2:** To develop programs and queries based on SQL.
- CO3:** Understanding the various concepts of PL/SQL.
- CO4:** Familiarization with Joins, View, Sequences, Indexing, Database packages, Triggers.

PO							
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C1					✓	✓	✓
C2		✓		✓	✓	✓	✓
C3	✓	✓	✓		✓	✓	✓
C4		✓	✓		✓	✓	✓

PGDCA-Semester-II

Network Concepts and Management (Hardware, Software, setting in LINUX/UNIX/NT environment (C1)

Network management refers to the processes, tools and applications used to administer, operate and maintain a network. Computer networks have become part of our everyday lives - they form the backbone of modern information systems. As networks expand, there is a growing need for individuals who understand their practical benefits, as well as how to implement and manage them.

Course Outcomes (CO)

- CO1:** Students will learn Network H/W and Software requirement, Network topologies, OSI reference model, TCP/IP model.
- CO2:** The cell structure and various layers of ATM.
- CO3:** Various classes of IP Addressing, Data Compression Techniques, Cryptography, Linux /Unix commands.
- CO4:** Creating, renaming, deleting, disabling user accounts in Windows NT.

Introduction to Programming – C (C2)

The primary goal is to prepare students for practical knowledge of basics of programming

· To provide complete knowledge of the programming language.

· Students will learn how to practically design programs.

Course Outcomes (CO)

CO1: Understand the fundamentals of C programming.

CO2: Students will acquire knowledge and skills of programming.

CO3: Students will be able to develop logics which will help them to create programs, applications in C.

CO4: Also by learning the basic programming constructs they can easily switch over to any other language in future.

Introduction to Scripting Languages, Web Designing & Uses of Internet (C3)

Internet is a vast source of information. Every person in this world is somehow dependent on the Internet. So, students should be aware of how the internet and its various applications work. Students can learn what the Internet is and its applications, how the Internet works, working and managing of email and various web technologies like HTML, DHTML. These are the basis of web development. Students can start building their own websites.

Course Outcomes (CO)

After completing this course students will:

CO1: Understand the principles of creating an effective web page.

CO2: Become familiar with graphic design principles that relate to web design and learn how to implement these theories into practice.

CO3: Develop skills in analysing the Social sites.

CO4: Learn the language of the web: HTML.

CO5: Learn techniques of web design, Form Design, Table Design.

E-Commerce / Business (C4)

E-commerce (electronic commerce) is the buying and selling of goods and services, or the transmitting of funds or data, over an electronic network, primarily the internet. The primary goal of this course is to prepare students for practical use of the internet for online transactions like e-banking. To get good knowledge of various modes of online payment using various apps. Also students can learn various security mechanisms.

Learning Outcomes

CO1: Demonstrate an understanding of the foundations and importance of E-commerce.

CO2: Analyse the impact of E-commerce on business models and strategy

CO3: Describe Internet trading relationships including Business to Consumer, Business-to-Business, Intra-organizational.

CO4: Describe the infrastructure for E-commerce.

CO5: Discuss legal issues and privacy in E-Commerce.

CO6: Assess electronic payment systems.

PO							
Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7
C1					✓	✓	✓
C2	✓				✓	✓	✓
C3		✓		✓	✓	✓	
C4					✓	✓	✓

DIPLOMA COURSE IN COMPUTER MAINTENANCE (DCM)

DCM is a 1 year (2 Semesters) Undergraduate Diploma Course in Computer Hardware for 10+2 passed students. The field of computer hardware maintenance provides for a very rewarding career. With computers all around us, it provides a sea of opportunities for a hardware engineer or technician. Almost every activity today at our offices, workplaces, shopping malls, airports and reservation counters require the use of computers.. Almost everyone today has a PC. All these create a great career opportunity for computer hardware professionals. A 1-year regular program trains students on every aspect of computer hardware and accessories. Students will gain skills in assembling computers, repairing and maintaining them. students will learn to install applications, remove them, clean the PC or format it.

Program Outcomes

PO	Computer Career	Description	Required Skills
PO1	Computer Technician	A computer technician is any person who repairs and maintains computers and servers as well as some other related peripherals.	Computer technicians must be able to maintain computer hardware, maintenance of other computer related equipment, troubleshooting computer problems, working with wires and electricity, assembling computers, and more.
PO2	Computer Support Specialist	Computer support specialists perform or ensure proper installation of cables, operating systems.	Computer support specialists must have knowledge about Computer system organization, software installation and troubleshooting.
PO3	Network specialist	Network specialist focuses on network management in an organization.	Network specialists must have networking knowledge and how to manage computer networks.
PO4	Computer Operator	A computer operator is a professional who controls the operation of computer networks and ensures that equipment and systems are functioning efficiently. Computer operators have a wide variety of job	For working as a computer operator one must have good knowledge of MS Office which includes MS Word, MS Excel, MS Power Point.

		opportunities in almost all industries.	
DCM- Semester-I			
Computer System Organization(C1)			
<p>This course categorises the fundamental information about computers and its working. Students discover the fundamental concept of computers with their present level of knowledge about computers. Students can learn about the Internet and its applications, how the Internet works, working and managing email,role of operating systems.</p>			
Course Outcomes (CO)			
<p>Upon successful completion of this subject students should be able to: CO1: Understand what is a computer system and Basic information related to computers. CO2: Understand the fundamental hardware components that make up a computer's hardware and the role of each of these components. CO3: Familiarization with the basic concepts of computer and its Applications CO4: Familiarization with the Input and Output Devices and Data Storage Devices. CO5: Comprehensive knowledge of the Internet and its working.</p>			
PC Maintenance & Troubleshooting (C2)			
<p>This course helps studentS step by step through the typical hardware and operating system problems encountered by technicians, teaching troubleshooting techniques to decipher any problem, and giving students the skills to solve them. Students will understand the basic concept, structure of Hard disk and Motherboard BIOS apply their knowledge to identify / rectify problems.</p>			
Course Outcomes (CO)			
<p>CO1: Students will get knowledge about general PC problems. CO2: Students will learn what is Motherboard BIOS? Its features, Boot sequences, issues and troubleshooting of BIOS. CO3: Students will learn Hard disk basics and elements of drive construction. CO4: Students will learn about various troubleshoots in Hard Disk. CO5: Students will also understand about printers ,various types of printers , working of printers and various troubleshoots in printers and how to fix them.</p>			
LAB-I: PC Computing and Internet Applications(C3)			
<p>This course simplifies Microsoft Office programs which enable the students to create professional and academic documents. Students elaborate various accounting related operations in MS Excel and presentation skills by using MS PowerPoint which makes them able to work in the field of office automation.</p>			

COURSE OUTCOMES(CO)

At the end of this course the student shall be able to:

CO1: Understand the basic terminology of computers.

CO2: Understand the practical concepts of MS Word, MS Excel, MS PowerPoint, and MS Access.

CO3: In MS Word students will be able to apply pre-designed Styles and format text with fonts and colours. Work with bullets, indents and line spacing. Insert pictures and screenshots. Set up page layout for margins, columns and printing.

CO4: In MS Excel students will learn how to create a Pivot Table, how to enter basic formulas and calculations, Absolute and relative references, rounding numbers and printing sheets in Excel.

CO5: In MS PowerPoint students will Learn the basics of working with slides, how to cut, copy, paste, and format text, how to apply a theme and Transitions to your slides.

LAB–II: Based on PC Assembling & Troubleshooting–I(C4)

In this course,students will get hands-on experience for solving troubleshoots in various components like Monitors,Drives,Memory,Printers,general PC , Motherboard.Students will be able to assemble PCs.

Course Outcomes (CO)

CO1:Students will be able to identify and solve common PC problems.

CO2:Students will be able to solve Troubleshooting exercises related to following components:

- 1. Monitors
- 2. Drives
- 3. Memory
- 4. Printers
- 5. Motherboard.

CO3:Students will be able to Install Hard Disks and configure the Pc's.

PO/CO MAPPING	PO1	PO2	PO3	PO4
C1	✓	✓		✓

C2	✓	✓	✓	✓
C3	✓	✓		✓
C4	✓	✓	✓	

DCM-Semester-II

NETWORK MANAGEMENT(C1)

This course inculcates the complete formulation of networking in students which is the most essential and advantageous in the present scenario of internet and networking. Complete understanding of the specified course provides students with the information of various network topologies, network protocols, network essentials and network controlling. This Course will help students to get proper information about many network devices. Students will learn how Operating Systems are Important for Computer Systems. And also will be aware of different types of Operating System and their services. This course introduces basic understanding of UNIX OS, UNIX commands and File system and to familiarize students with fundamentals of shell programming.

Course Outcomes (CO)

Upon successful completion of this course :

CO1: Students will get Knowledge of uses and services of Computer Network.

CO2: Ability to identify types and topologies of networks.

CO3: Understand features and benefits of UNIX operating system, its commands, its various types of file systems.

CO4: Understands concept of shells and its types.

Computer Maintenance Workshop(C2) (Practical)

In this course, students will get hands- on experience of maintaining PCs, like students will learn how to assemble PCs ,how to install operating systems and various applications software in personal computers. Students will also identify various hardware and software troubleshoots.

Course Outcomes (CO)

After completion of this course students will be able to perform various tasks like:

CO1: Identify the peripherals of a computer, components in a CPU and its functions.

CO2: Students will be able to install Operating Systems and various application software on the personal computer.

CO3: Students will be able to set wired and wireless labs.

CO4: Students will be able to identify various hardware and software issues and fix them.

LAB-I: Software Installation and its Troubleshooting(C3)

The objective of this course is that students will learn Basics of Operating System Introduction to install OS, Types of Operating systems, Systemfiles FAT and NTFS, Windows 10 and RedHat Linux and Multi Boot Operating System,knowledge of Device Installation Graphics Card, Sound Card, LAN Card, Wireless LAN Card, SCSI Card, External Drive, Flash Cards, Web Camera, MobileDevices, Pen Drive, Modem, Plotter, WirelessLAN, Access Point etc.Students will also get knowledge of Virus and its types, Effect of Virus for Computer System, Scanning and Antivirus remover tools.

Course Outcomes (CO)

After successfully completion of this course :

CO1:Students will understand the concept of the operating system and its role,its types.

CO2:Understands installation of various devices like graphics card,sound card,SSCI card,Flash cards.

CO3: Understand the effect of viruses in computers.

LAB-II: Based on Network Management(C4)

COURSE OUTCOMES(CO)

After this course ,

CO1:students will be able to do Cable Crimping using Different Color Codes (Straight and Cross Cable).

CO2:Install and configure Peer to Peer and Server-Client Network

CO3:Install and Configure DNS & DHCP Services

CO4:Install and Configure FTP, HTTP Services

CO5:Install and Configure Wireless Network

CO6:Install and Configure Different Antivirus Software

CO7:Remote Desktop, Remote Assistance, Telnet, HyperTerminal, TeamViewer

PO/CO MAPPING	PO1	PO2	PO3	PO4
C1			✓	✓
C2	✓	✓	✓	✓
C3	✓	✓	✓	
C4			✓	

Tax Procedure and Practice (Vocational)

Name of Programme: B.A. (Bachelor of Arts) Semester- 1 Course Name: Income Tax Law-I

The students will be able to:

- CO1. Have to Understand income tax, various exempted income, residential status.
- CO2. Have understood the Concepts of the five heads of income tax.
- CO3. Learn the Calculation of Gross Total Income.
- CO4. Know about Various deductions under sec 80 and rebate.

Semester- 2

Course Name: Income Tax Law-II

The students will be able to:

- CO1. Compute the taxable income and tax liability for a partnership firm, Co-operative societies, and HUF
- CO2. Compute the tax deductible at source in respect of particular cases.
- CO3. Identify the persons responsible for paying tax deducted at the source
- CO4. Compute advance tax liability and the schedule of instalments for payment of advance tax.
- CO5. Appreciate the difference between tax deduction at source and tax collection at source.

Semester- 3

Course Name: Regulatory Framework-Direct Taxes

The students will be able to:

- CO1. Learn about the income tax authorities and their powers and duties
- CO2. Gain Practical Knowledge about Basic documents Like a PAN, TAN, and its process.
- CO3. Learn Procedure of TDS Return and TDS certificates (Form 16, 16A, 16B)
- CO4. Know Provisions relating to Advance tax, its Calculation. Filing of challan and deposit of Advance Tax.
- CO5. Learn file return of income, time limit, return of loss, Belated Return, Revised Return, Defective Return.
- CO6. Understand Post Assessment Procedures.

Semester- 4

Course Name: TAX PLANNING

The students will be able to:

- CO1 Have Understanding the corporate tax laws and use it for tax planning
- CO2 Have Knowledge of difference between tax avoidance and tax planning.
- CO3 Know business income is and when it gets taxed
- CO4 Have Knowledge of tax planning in relation to forms of organizations

Semester- 5

Course Name: Goods and Services Tax

The students will be able to:

- CO1 Understand the Structure of indirect tax in India before and after the implementation of GST.
- CO2 Comprehend Levy and collection of GST, Exemptions available, composition scheme, administrative authorities, and registration procedure.
- CO3 Computation of GST regarding supply concept, input tax credit, E- Waybills, and returns under GST.
- CO4 learn the procedure of Payment and refund tax, payment of refunds, GST portal, and GST suvidha provider.

Semester 6

Course Name: Customs Act

The students will be able to:

CO1 Learn about the customs authorities and their powers and duties

CO2 Interpret the Import and export procedures and the documentation

CO3 Understand the Customs Tariff Act, 1975

CO4 Learn the Role of Customs in International Trade

CO5 Understand the Clearance Procedure - Procedure and Filling & Filing of Relevant documents.

Course Name: Corporate Tax Law and Planning

The students will be able to:

CO1 Understanding the corporate tax laws and uses it for tax planning

CO2 Knowledge the difference between tax avoidance and tax planning.

CO3 Know business income is and when it gets taxed

CO4 Have Knowledge of tax planning in relation to forms of organizations.

Name of Programme-PGDMM

Programme Outcomes

PO1 This course helps to understand the basic concepts in Marketing, Marketing environment and develop an understanding about Marketing Communication and its usage.

PO2 Ability to work in teams with enhanced communication.

PO3 Development and usage nature and growing importance of sales promotion, samples and point of purchases, implementing and evaluating the sales promotion.

PO4 Ability to start entrepreneurial activities.

PO5 To inculcate ethical values, team work, leadership and managerial skills.

PO6 Students will demonstrate strong conceptual knowledge in the functional area of marketing management.

PO7 Students will demonstrate analytical skills in identification and resolution of problems pertaining to marketing management.

Semester- 1

Course Name: Management and organizational behaviour

The students will be able to:

CO1 Analyse the applicability of the concept of organizational behaviour to understand the behaviour of people in the organization.

CO2 Understand the principles of management.

CO3 Learns about how management performs different functions in the organisation.

CO4 Analyse the complexities associated with the management of the group behaviour in the organization.

CO5 Understand how organizational behaviour can integrate with understanding the motivation behind behaviour of people in the organisation.

Course Name: Business Economics and Statistics

The students will be able to:

CO1 Learn and be proficient in the overall foundation of an economy as it relates to supply and demand and its impact on the domestic and world economy.

CO2 Analyse the effect of government intervention in the individual markets.

CO3 Gain information about methods of Data collection

CO4 Learn how to Design questionnaires, and classification and tabulation of data

Course Name: Marketing Management

The students will be able to:

- CO1 critically evaluate the key analytical framework and tools used in marketing.
- CO2 understand the need importance and process of marketing planning and control.
- CO3 relate marketing mix as a framework for marketing decision- making.
- CO4 acquire an understanding of fundamental concepts of marketing.
- CO5 acquire knowledge about the various distribution channels available for marketing.

Course Name: Introduction to Marketing Research Application

The students will be able to:

- CO1 Have knowledge of the role of HRM in an organisation.
- CO2 Apply their knowledge to gain competitive advantages through people.
- CO3 Develop and design Human Resource Management systems.
- CO4 Understand the basis of the remuneration and incentives system of HRM.

Course Name: International Marketing

- CO1 Have developed an understanding of major issues related to international marketing
- CO2 Have developed skills in researching and analysing trends in global markets and in modern marketing practice
- CO3 Evaluate an organization's ability to enter and compete in the international market.

Course Name: Seminar

The students will be able to:

- CO 1: Deal with nerves and think more positively about public speaking
- CO 2: Evaluate the ways of grabbing the listener's attention, holding their interest, and concluding strongly
- CO 3: Use body language and tone of voice to enhance their presentation
- CO 4: Use slides and visual aids effectively.

Semester- 2

Course Name: Rural and Social Marketing

The students will be able to:

- CO1 Gain knowledge about cost accounting and management accounting.
- CO2 Learn the methods of costing and cost control techniques.
- CO3 Analyse and interpretation of financial statements.
- CO4 Understand the ratio analysis and preparation of cash flow statements.
- CO5 Have knowledge about management information systems.

Course Name: Retail Management

The students will be able to:

- CO1 Know about retail management process, Roll of retailer.
- CO2 Understand retail buying behaviour and retail pricing.
- CO3 Get knowledge regarding store layout and design, merchandise display and material & finishes graphics.
- CO4 Gain knowledge of supply chain management.

Course Name: Services Marketing

The students will be able to:

- CO1 Examine the nature of services and distinguish between product and service
- CO 2 Identify the major elements needed to improve the marketing of services

- CO3 Develop the marketing planning and control systems appropriate to service-based activities
CO4 Have knowledge of marketing issues associated with service productivity, perceived quality, and customer satisfaction.

Course Name: Advertising and Sales management

The students will be able to:

- CO1 Get knowledge about functions and classification of advertising.
CO2 know about the setting advertising objectives.
CO3 Get knowledge about the advertising media and advertising programmes.
CO4 Understand about the sales management, its objectives and process.

Course Name: Seminar

The students will be able to:

- CO1 Deal with nerves and think more positively about public speaking
CO2 Evaluate the ways of grabbing the listener's attention, holding their interest, and concluding strongly
CO3 Use body language and tone of voice to enhance their presentation
CO4 Use slides and visual aids effectively

Name of Programme-PGDBM

Programme Outcomes

- PO1 This course prepares the participants for the coming roadblocks and challenges into corporate world.
PO2 Ability to work in teams with enhanced communication.
PO3 After completion of this course, graduates will have lucrative opportunities from different industries. They can seek employment in MNC'S in the department of Accounting etc.
PO4 Ability to start entrepreneurial activities.
PO5 To inculcate ethical values, team work, leadership and managerial skills.

Semester- 1

Course Name: Management and organizational behaviour

The students will be able to:

- CO1 Analyse the applicability of the concept of organizational behaviour to understand the behaviour of people in the organization.
CO2 Understand the principles of management.
CO3 Learns about how management performs different functions in the organisation.
CO4 Analyse the complexities associated with the management of the group behaviour in the organization.
CO5 Understand how organizational behaviour can integrate with understanding the motivation behind behaviour of people in the organisation.

Course Name: Business Economics and Statistics

The students will be able to:

- CO1 Learn and be proficient in the overall foundation of an economy as it relates to supply and demand and its impact on the domestic and world economy.
CO 2: Analyse the effect of government intervention in the individual markets.
CO3 Gain information about methods of Data collection
CO4 Learn how to Design questionnaires, and classification and tabulation of data

Course Name: Financial Accounting

The students will be able to:

- CO1 Develop Conceptual knowledge of basics of accounting
CO2 Identify an event that needs to be recorded in the accounting records.

CO3 Develop the skills of recording financial transactions and preparation of reports in accordance with GAAP.

CO4 Identify and analyse the reasons for the difference between cash book and pass book balances.

CO5: Have knowledge of accounting process and preparation of final accounts of sole traders.

Management and Organizational Behaviour

The students will be able to:

CO1 Analyse the applicability of the concept of organizational behaviour to understand the behaviour of people in the organization.

CO2 Understand the principles of management.

CO3 Learns about how management performs different functions in the organisation.

CO4 Analyse the complexities associated with the management of the group behaviour in the organization.

CO5 Understand how organizational behaviour can integrate with understanding the motivation behind behaviour of people in the organisation.

Business Economics and Environment

The students will be able to:

CO1 Learn and be proficient in the overall foundation of an economy as it relates to supply and demand and its impact on the domestic and world economy.

CO2 Analyse the effect of government intervention in the individual markets.

CO3 Know about business environment and social responsibility of business towards various sections of society.

CO4 understand the various types of business environment and its impact.

Financial Accounting

The students will be able to:

CO1 Develop Conceptual knowledge of basics of accounting

CO2 Identify an event that needs to be recorded in the accounting records.

CO3 Develop the skills of recording financial transactions and preparation of reports in accordance with GAAP.

CO4 Identify and analyse the reasons for the difference between cash book and pass book balances.

CO5 Have knowledge of accounting process and preparation of final accounts of sole traders.

Marketing management

The students will be able to:

CO1 critically evaluate the key analytical framework and tools used in marketing.

CO2 Understand the need importance and process of marketing planning and control.

CO3 Relate marketing mix as a framework for marketing decision-making.

CO4 Acquire an understanding of fundamental concepts of marketing

CO5 Acquire knowledge about the various distribution channels available for marketing.

Human resource management

The students will be able to:

CO1 Have knowledge of the role of HRM in an organisation.

CO2 Apply their knowledge to gain competitive advantages through people.

CO3 Develop and design Human Resource Management systems.

CO4 Understand the basis of the remuneration and incentives system of HRM.

Seminar

The students will be able to:

CO1 Deal with nerves and think more positively about public speaking

CO2 Consider ways of grabbing the listener's attention, holding their interest, and concluding strongly

CO3 Use body language and tone of voice to enhance their presentations

CO4 Use slides and visual aids effectively

PGDBM Semester – 2nd Management and cost accounting

The students will be able to:

CO1 Get knowledge about cost accounting and management accounting.

CO2 Understand about the methods of costing and cost control techniques.

CO3 Know about how to analysis and interpretation of financial statements.

CO4 Know about the ratio analysis and preparation of cash flow statements.

CO5 Get knowledge about management information system.

Business and labour laws

The students will be able to:

CO1 Understand the contract act 1872, types of contract, offer and acceptance.

CO2 Get knowledge about remedies of breach of contract, law of agency, bailment and pledge.

CO3 Understand the about partnership act, 1932, sale of goods act, 1930.

CO4 Get information about factories act1948, payment of wages act1936, industrial disputeact1947 and its provisions.

Advertising and Sales Management

The students will be able to:

CO1. Get knowledge about functions and classification of advertising.

CO2. know about the setting advertising objectives.

CO3. Get knowledge about the advertising media and advertising programmes.

CO4. Understand about the sales management, its objectives and process.

Entrepreneurship and Business Strategy

The students will be able to:

CO1. Understand the nature and process of entrepreneurial process.

CO2. Understand the functions of the entrepreneur in the successful, commercial application of innovation.

CO3. Understand regarding different motivation theories, role of entrepreneurship in economic development.

CO4. Know about the entrepreneurial decision- making process, how to setting up a small business enterprise and sources of finance.

CO5. Explore the place mix and strategies decisions

Production Planning and Control

The students will be able to:

CO1. Determinate the objectives, functions, applications of PPC and forecasting techniques

CO2. Learn different inventory control techniques.

CO3. Understand how to solve routing and scheduling problems

CO4. Summarize various aggregate production planning techniques.

Name of the program-B.com Financial Services

Program outcomes

PO1. The students will develop practical skills to solve the problems in the area of finance.

PO2. This programme will develop skills to work in groups with good communication capabilities.

PO3. This program will train students to learn theoretical, practical and technical skills to make them easily

employable in the market.

PO4. The successful completion of this course will open avenues for candidates to work as Personnel Managers, Marketing Manager, Portfolio Managers, Investment Consultants, Financial Advisors and Financial Research Managers in the business.

PO5. Expertise learnt through this course will help candidates to work as entrepreneur.

PO6. This course will foster impeccable values, team work, leadership and managerial skills.

PO7. The students will get impulse to pursue professional courses such as CA, CS, CPA, CWA etc.

Course Name Financial Accounting with Tally.

Course Outcome

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

CO1. Gain computerised knowledge of accounting software Tally ERP9.

CO2. Understand accounting cycle with GST.

CO3. Get conceptual knowledge of accounting concepts, conventions, IFRS, Double entry system of all other basics.

CO4. Prepare final accounts of sole trader and partnership accounts.

Quantitative Techniques for Business I

This course will help:

CO1 To understand the concept of Simple Average, Geometric Mean, Harmonic Mean, Mode and Median.

CO2 To develop skills to use Dispersion measures, Skewness and Kurtosis.

CO3 To inculcate skills to construct Index Numbers, to understand Trend Cycles and to forecast trend.

CO4 To get hand on calculation of Simple and Compound Interest, Discounting and Factoring technique.

Business Organisation and Management

This course will foster learning:

CO1 To understand meaning of business, profession, business ethics and its social responsibility towards society.

CO2 To know about various forms of organisation like Sole trader, Company, Partnership and OPC etc.

CO3 To generate ideas regarding various functions of management, applications of principles of general and scientific management and contribution of various management researchers.

CO4 To develop understanding regarding functions of personnel management such as recruitment, selection, job appraisal, worker participation in management etc.

CO5 To know the techniques of marketing research and sales management.

CO6 To know about the role of strategic management.

Semester II

Course Name Quantitative Techniques for business II

This course will help:

CO1: To understand the concept of Correlation, its different types such as Simple correlation, Rank correlation, Partial and Multiple correlations.

CO2: To know about the Interpolation and extrapolation techniques.

CO3: To have knowledge regarding Probability and Theory of distribution.

CO4: To learn various concept of Sampling units, Sample survey and Sampling techniques etc.

Mercantile Law

This course will help to enhance the knowledge about:

CO1: Ways to enter into a valid contract.

CO2: Contracts of Bailment, Pledge and Agency.

CO3: Consequences of breach of contract, its remedies and ways of discharge of contract.

CO4: Consumer Protection Act and The Payment Of Wages act.

Banking Operations and Regulation.

This course will provide practical and theoretical knowledge:

CO1: Regarding present structure of banking in India, Role of Commercial Banks and Relationship of bank with customer.

CO2: About KYC norms, Various types of customers, Principles of lending and advancing of loans and closing of bank accounts.

CO3: In respect to various innovations going on in the field of banking and global challenges in banking services.

CO4: With regards to measurements of service quality of banks, use of digital banking such as EBanking, Mobile banking, Debit and Credit and smart cards, UPI, BHIM and PAYTM.

Indian Financial System

This course will enhance learn regarding:

CO1: Various components of Indian financial system.

CO2: Concepts of money, money supply and its creation, Capital and Money markets.

CO3: Traditional and innovative Financial Instruments, Financial intermediaries and Financial Sector Reforms.

CO4: Recent development of Financial Institutions.

Corporate and Bank Accounting

This course will explore the accounting aspects regarding:

CO1: Preparation of final accounts of companies and its legal requirements.

CO2: Accounting treatment of issue of equity shares, issue and redemption of preference shares and debentures.

CO3: Accounting concepts for Amalgamation and Reconstruction.

CO4: Procedure of accounts made by Bankers, treatments of NPA, Calculation of Simple and Compound Interest, Calculation of EMI and Calculations of annuities.

Semester III Cost Accounting

This course will help students:

CO1: To calculate in detail the various elements of cost of product and preparation of cost sheet.

CO2: To compute profit in complete and incomplete contracts.

CO3: To get insight into the cost calculation of industries where work is completed through various processes.

CO4: To know in detail various aspects of Marginal Costing and its managerial applications.

CO5: To study the various variances which occur in material and labour overheads.

CO6: To know about the benefits of Budget and Budgetary control.

Financial Markets Operations

This course will provide deep knowledge about money and capital market. Students will be able to learn:

CO1: About market composition and structure.

CO2: About stock exchange listing and the functionaries of stock exchanges.

CO3: Regarding role and powers of SEBI as investor protection bodies and regulated market and also Company Law Board.

CO4: About various products offered by IFCI, ICICI, NABARD, EXIM, IDFC, SIDBI etc.

CO5: Regarding rights and obligations of Depository and SEBI Act.

Contemporary Accounting and Reporting Practices

This course will help students to learn:

CO1: Various emerging contemporary issues in the changing environment.

CO2: Important issues like Human Resource Accounting and Price Level Accounting.

CO3: The need of Corporate Social Reporting, Environment Accounting and Forensic Accounting.

CO4: Issues in corporate disclosures, Recent Trends in the Published Accounts and Web Reporting.

CO5: Preparation of value added statements and concept of Economic Value Added, Accounting standards for intangibles, Interim reporting and EPS.

Banking Laws and Practices

This course will to provide insight to student regarding:

CO1: Central bank of India and techniques used by it for credit control.

CO2: Cheques and promissory notes and drafts.

CO3: Duties and responsibilities of paying and collecting banker and protection available under Negotiable Instrument Act.

CO4: Various reforms in Indian Banking sector and about Basel Norms.

CO5: Concepts of Assets Liability Management and financial inclusion and demonetisation.

Goods and Services ACT

This course will help learners to get detailed knowledge for:

CO1: Structure of indirect tax in India before and after implementation of GST.

CO2: Levy and collection of GST, Exemptions available, composition scheme, administrative authorities and registration procedure.

CO3: Computation of GST regarding supply concept, Input Tax Credit, E- Way bills and returns under GST.

CO4: Payment and Refund Tax, Payment of Refunds, GST portal and GST suvidha provider.

Seminar

This course will help students to explore on various current and academic topics given to them by teacher.

They are required to prepare a report on the given topic and present the PPT in front of the class. It will enhance their public speaking confidence and communication skill.

Semester IV

Management accounting and Auditing

This course will help to get detailed knowledge for:

CO1: Concepts of management accounting and recent trends in management reporting, analysis and interpretation of financial statement.

CO2: Ratio analysis technique in detail, Fund flow and Cash flow statement

CO3: Understanding the rationale of Financial Audit, Cost Audit, Management Audit, Internal Audit, Efficient Audit and CAG.

CO4: Appointment qualification and statutory auditors and his duties and liabilities.

Leadership and Personality Development

This course will assist learners with regards to:

CO1: Concept of leadership, Motivation and Morale.

CO2: Steps to deal with conflict and its management.

CO3: Decision making process and models.

CO4: Determinants and personality development and techniques and improvement of interpersonal skills.

CO5: Techniques to cope up with stress and group dynamics.

Corporate Law and Secretarial practise

This course will aid students to learn about:

CO1: Various companies as per Companies Act, Online registration of companies,

CO2: Various and important documents (MOA, AOA PROSECTUS)

CO3: Provisions regarding share and share capital, Company management and meetings of board and shareholders.

CO4: Appointment, Role, Rights and Liabilities, Qualification, Dismissal and Legal position of company secretary.

CO5: Preparation of file and do practical on various documents such as agenda, meetings, minutes etc.

Fundamental of Insurance and its Accounting

This course will help students to be able to learn in connection with:

CO1: Insurance business environment in India.

CO2: Insurance regulatory authority in India.

CO3: Life and General insurance in detail.

CO4: Reporting of accounts and books maintained by Insurance Companies.

Fundamental of Human and Resource Management

This course will help students to know in connection with:

CO1: Evolution of HR planning.

CO2: Techniques of recruitment and selection, employee's retention strategies, Job analysis etc.

CO3: Development of training needs.

CO4: Factor influencing employee remuneration, Employee health and safety, Employee grievance system and Methods of job evaluation.

Viva Voce

This course will assist students to get prepared for interview. They are called on one to one basis and asked to speak on their favourite subject. Teacher can also ask various questions on different subjects. This will help gain confidence and better communication skills.

Semester V

Financial management

This course will explore the accounting aspect regarding:

CO1: Scope of Financial Management and types of financial decision

CO2: Concept of Capital Budgeting Leverage and Capital Structure.

CO3: Relevance of Cost capital, various sources of finance and Types of Capitalisation.

CO4: Various issues in Working Capital Management and determinants of Dividend decision.

Operation Research

This course will enhance analytical skills of students in connection with:

CO1: Basics of operation research, Use of linear programming to solve problems.

- CO2: Transportation and assignment techniques to minimise cost.
- CO3: Game theory and Inventory models to control inventory cost.
- CO4: CPM & PERT techniques for project and planning and schedule

Income Tax Law –I

This course will aid in getting practical knowledge regarding:

- CO1: Brief history of Income Tax, Various exempted income, Residential status.
- CO2: Concepts of five heads of income tax.
- CO3: Calculation of GTI.
- CO4: Various Deductions under sec 80 and Rebate.

E- Commerce and E –Reporting

This course will help to know about :

- CO1: E Commerce based activity and entire framework of E commerce.
- CO2: E business models and E Payment system.
- CO3: Security and legal aspects of E commerce.
- CO4: Regulation of Web page corporate reporting and various corporate reporting systems.

Marketing of Financial Services

This course will assist to know about :

- CO1: Changing environment of financial services and various aspects of financial products.
- CO2: Pricing, Packaging and Product development of Financial products.
- CO3: Role of Promotion and Channels of distribution.
- CO4: Marketing of Mutual funds, Credit cards, Housing finance, Personal loan etc.

Foreign Trade

This course will help to understand:

- CO1: Composition of Foreign trade and Recent trends.
- CO2: Importance of world economy and BOP.
- CO3: An overview of WTO, World bank and IMF.
- CO4: Commercial policy and rate of exchange.

Seminar(based on training)

In this course students will give presentation of whatever they have learnt while in training. They will also submit their training reports.

Semester VI

Entrepreneurship and Small Business

This course will help to get detailed knowledge for:

- CO1: Various concepts of entrepreneurship, Pros and Cons of being an entrepreneur.
- CO2: Role of Government in organising entrepreneurial development programs.
- CO3: Start up scheme, Small scale industry, Cottage industry, and Contribution in promoting small business.
- CO4: Preventing and remedial measure for sick industries.

Security Analysis and Portfolio Management

This course will help students to know about:

- CO1: Various avenues of investment, Concept of risk and return and its measurement.

- CO2: Portfolio construction and its diversification.
- CO3: Concepts of fundamental of technical analysis.
- CO4: Risk Return optimisation.

Mutual Funds

This course will assist to know about:

- CO1: History of mutual fund and entities involved.
- CO2: Various mutual fund schemes and role of regulatory agencies.
- CO3: Fund selection criteria and its performance measurement.
- CO4: Eligibility criteria and guidance to investors for financial planning.

Corporate Governance

This course will help students to explore the knowledge about:

- CO1: Ethics in business and its theories.
- CO2: Conceptual framework of Corporate Governance and Reforms.
- CO3: Major corporate scandals in Indian and International level.
- CO4: Corporate governance problems and corporate failure, Code and standards of governance

Income Tax Law -II

This course will aid in getting practical knowledge regarding:

- CO1: Concept of tax planning, tax evasion and tax management.
- CO2: Filing of return by individual, assessment of HUF, partnership firm and AOP.
- CO3: various income tax authorities and concept regarding TDS, Advance payment Tax, PAN etc.
- CO4: Procedure of claiming funds, appeal and penalties.

Workshop

This workshop will assist students to know about the practical aspects of GST, Income tax and E-filing and basics of Stock market

Programme: B.Com (Pass Course)

Program Outcomes

B.Com pass course helps the students:

- PO1. To make them well trained professionals as managers, accountants, insurance officers, management accountant, managers, company secretaries, entrepreneurs etc. and eligible for many government jobs in administrative offices.
- PO2. To increase their administrative abilities to run the company.
- PO3. To instill technical skills in the field of cost, financial and management accounting in the developing scenario.
- PO4. To enhance the decision making skills in the students that helps them in solving business problems.
- PO5. To inculcate ethical values, corporate governance, professional skills, organization behavior and leadership to tackle with the constraints of business life.
- PO6. To develop and strengthen critical ability of students that helps them in higher education and research as CA, CWA, CS, M.Com, MBA, MPA and any other professional courses.

Semester I

Financial Accounting

Students will be able to:

- CO 1. Understand applicability of various concepts, conventions and principles of accounting.
- CO 2. Prepare financial reports that provide information about the performance of different stakeholders in the business.
- CO 3. Track the income, expenditure and important valuation in running a business with quantitative information that can be used in taking business decisions.
- CO 4. Learn the basic concepts of Voyage Accounts, Joint Venture, Consignment Accounts, Departmental Accounts, and Branch Accounts.

Business Organisation

Students will be able to:

- CO 1. Have good understanding of basic economic principles and industrial operations, its size and scale.
- CO 2. Access a firm's financial health and markets that are affected by the world's events.
- CO 3. Know the corporate culture that helps to develop professional environments.
- CO 4. Acquire knowledge about various forms of business organization such as sole-tradership, partnership, joint Hindu family, joint stock companies, co-operative societies, public and private sector etc.

Business Communication

Students will be able to:

- CO 1. Understand the significance of business communication in this digitalized era.
- CO 2. Boost productivity and teamwork in the modes of communication.
- CO 3. Determine right ways of Internal Correspondence such as creating letter, memos and reports.
- CO 4. Inculcate Business Etiquette and presentation skills within themselves by possessing the knowledge about important principles of communication.

Business Statistics

Students will be able to:

- CO 1. Recognize the significance of statistical research in business to give the unpredictable business scenarios.
- CO 2. Utilize proper methods of collection of data and present the results in effective ways and make predictions accordingly.
- CO 3. Develop critical and analytical thinking with different statistical tools as central tendency, probability, correlation, regression, time series analysis etc.
- CO 4. Practically apply the techniques of statistics in business related problems.

Semester II

Advanced Financial Accounting

Students will be able to:

- CO 1. Focus on specialized and advanced concepts of accounting such as subsidiary, consolidation, partnership, depreciation, hire purchase etc.
- CO 2. Develop insight for the evaluation of results and decisions in a particular organization.
- CO 3. Maintain the track of business finance and transactions with inside and outside parties associated with the enterprise.
- CO 4. Gain an understanding of legal provisions related to the constitution and dissolution of partnership firms.

Commercial Law

Students will be able to:

- CO 1. Understand the legal aspect of running a business under national and international legal framework.

- CO 2. Focus on business oriented problems, real life problems and study of law as an influence on decision related to business.
- CO 3. Protect the business houses in every kind of legal situation and ensure rights of customers and employees.
- CO 4. Acquire the knowledge about body of law about applies to merchandising, trade & commerce and sales.

Business Economics

Students will be able to:

- CO 1. Determine and understand the past, future and current theories and to apply them to businesses.
- CO 2. Enhance their knowledge about demand and supply forces that directly raise the standard of living and make society a better place.
- CO 3. Analyze public issues like unemployment, inflation, budget deficits, national income and other issue related to the business.
- CO 4. Become competent in understanding the various structures of the market present in an economy.

Functional Management

Students will be able to:

- CO 1. Perceive the knowledge about the different functions of management and their practical application in medium and large level businesses.
- CO 2. Keep the corporate goals on track by different functions of management.
- CO 3. Learn leadership, motivation, controlling, supervising and directing the employees in the organization.
- CO 4. Acknowledge the urgency of strategic management and production management for greater efficiency.

Seminar

Students will be able to:

- CO 1. Gain knowledge in the particular field through demonstrations.
- CO 2. Develop skills, increase experience, and update students in accordance with the technologies.
- CO 3. Improve their knowledge of the student through practical ability.

Drug Abuse

Students will be able to:

- CO 1. Conclude the dangerous consequences of substances used such as illicit drugs.
- CO 2. Prevent the inappropriate usage of drugs.
- CO 3. Change the unhealthy habits and stop using all the illegal substances in the society.
- CO 4. Aware the society about the harmful consequences of such intakes.

Semester =III Corporate Accounting Students will be able to:

- CO 1. Know specific accounting branch that handles accounting for companies, analyse and interpret the financial results of a business.
- CO 2. Learn about the special business events such as absorption, consolidations, amalgamation etc.
- CO 3. Focus on accounting of various sectors like Company, banking and insurance etc.
- CO 4. Acquire the intelligence about the Inter-company transactions and holdings

Company Law

Students will be able to

- CO 1. Understand the formation of company along with its legal procedure.

- CO 2. Integrate the knowledge of company law in business world.
- CO 3. Develop critical thinking through various case studies and their practical applicability.
- CO 4. Apprehend the expertise about the emerging issues in company law.

Financial Management

Students will able to

- CO 1. Understand theoretical and practical role of finance manager in business organization.
- CO 2. Determine the different sources of finance and their valuations using relevant models.
- CO 3. Evaluate the adequate capital structure and working capital management to rise the funding in the corporate sector.
- CO 4. Measure the time value of money using compounding discounting techniques.

International Business

Students will able to

- CO 1. See through the importance of international business in world economy.
- CO 2. Know the structure and functioning of international organizations promoting the recent trends in world trade.
- CO 3. Have insight about types and flows of foreign investment in Indian perspective.
- CO 4. Learn foreign Trade promotion measures such as SEZ, EOU and organizations in India.

Business Environment

Students will able to

- CO 1. Understand the Concept, components, and importance of Business Environment.
- CO 2. Analyse public issues like unemployment, inflation, budget deficits and other issues related to the business.
- CO 3. Examine various economic policies and plans like monetary policy, fiscal policy, EXIM policy, Trade Policy etc. of India since inception.
- CO 4. Learn about the role of Consumer Groups with special reference to Consumer Protection Act.

Semester IV

Goods and Service Tax

Students will able to

- CO 1. Learn about the Overview, Constitutional aspects, implementation and composition of GST in India.
- CO 2. Understand concept related to place and time of supply, Registration Procedure and Amendments in the act.
- CO 3. Examine the benefits of TDS, TCS and CPIN.
- CO 4. Acquire the knowledge about GST portal and GST Suvidha Provider (GSP).

Industrial Law

Students will able to

- CO 1. Understand the various laws related to industries in India.
- CO 2. Conclude employee benefit scheme and basic provisions of Workmen Compensation.
- CO 3. Interpret the importance of industrial dispute, factories act and trade union act.
- CO 4. Develop practical knowledge by analyzing the real life situations and cases of factories, trade unions and workers.

Principles and Practices of Banking and Insurance

Students will able to

- CO 1. Understand the various rules and regulations of banking and insurance sector.
- CO 2. Apply comprehensive knowledge of banking and insurance structure in different sectors.
- CO 3. Acquire the knowledge about the Concept & Importance of e-banking.
- CO 4. Analyse the Structure, Organization and regulation of Indian Money Market and CapitalMarket.

Cost Accounting

Students will be able to

- CO 1. Explore the basic concepts of cost accounting.
- CO 2. Take managerial decisions about cost and variance of the company.
- CO 3. Learn various Costing Methods such as Unit Costing, Job, Batch, Contract, Process costing etc.
- CO 4. Analyse and apply the techniques of Marginal Costing, Break Even Analysis, Budgetary Control, and Standard Costing in the costing of the product of the company.

Seminar

Students will be able to:

- CO 1. Gain knowledge in the particular field through demonstrations.
- CO 2. Develop skills, increase experience, and update students in accordance with the technologies.
- CO 3. Improve the knowledge of the student through practical ability.

Environmental Studies

Students will be able to

- CO 1. Examine the multidisciplinary field of environmental studies with the help of human interaction with the environment.
- CO 2. Learn the ethics and humanities to better understand the environmental problems.
- CO 3. Understand the structure and function of an ecosystem and conserve natural resources such as Water resources, Mineral resources, Land resources, Energy resources.

Semester V

Management Accounting

Students will be able to:

- CO 1. Provide technical skill in cost, financial and management accounting
- CO 2. Make operational decisions that enhance company's efficiency.
- CO 3. Analyze and Interpret Financial Statement through case studies.
- CO 4. Explore new markets and analysis of cost volume.

Direct Tax Laws

Students will be able to:

- CO 1. Understand the different methods of financing in public sector activities such as courts, legal system etc.
- CO 2. Learn various sources of income and their taxability.
- CO 3. Examine different forms of taxes that are levied directly on income generated by companies and individuals.
- CO 4. Learn the incidence of residence and tax rates according to respective tax liabilities.

Auditing

Students will be able to:

- CO 1. Reconcile the financial and operating information that improves weak internal controls.
- CO 2. Create audit procedure including analytical review, enquiry, observation, inspection and

recalculation.

CO 3. Understand the special areas of audit such as Tax audit, Management audit and auditor's report.

CO 4. Examine Audit Principles and Procedure.

Accounting & Finance Contemporary Accounting Students will be able to:

CO 1. Observe the emergence of contemporary issues in accounting.

CO 2. Have practical knowledge of preparation of Human Resource Accounting, Price Level Accounting and Corporate Social Reporting.

CO 3. Figure out the recent Trends in the Presentation of Published Accounts.

CO 4. Understand the Significance and formulation of Accounting Standards and Basel II and III Norms.

Financial Market Operations

Students will be able to:

CO 1. Have a clear understanding of concepts of Composition and Structure of Indian Money Markets and capital markets.

CO 2. Analyze the different, models and trends in financial markets.

CO 3. Understand the functions and role of stock exchange listing, procedure and legal requirements.

CO 4. Learn the provisions of SEBI and depositories act.

Semester VI Operations Research Students will be able to:

CO 1. Have knowledge about different constructive techniques, concepts and tools of OR.

CO 2. Apply the methods under Linear Programming,

CO 3. Identify the crucial role of Project Planning and scheduling

CO 4. Interpret the procedures of different models and theories as Transportation Model, Queuing Models and Game Theory etc.

Corporate Governance

Students will be able to:

CO 1. Apply Ethics in Business and Corporate Code.

CO 2. Learn the Principles and Theories of Business Ethics and its reforms.

CO 3. Analyse the Major Corporate Scandals with the help of case studies.

CO 4. Understand the Corporate Governance Reforms.

Workshop on Goods & Services Tax (GST)

Students will be able to:

CO 1. Learn Accounting in GST.

CO 2. Have practical knowledge of Computing GST Tax.

CO 3. Learn the Applicability of CGST, IGST, SGST, CGST on Different Transactions and adjustment of credit.

Portfolio Management

Students will be able to:

CO 1. See-through theoretical concept of portfolio management.

CO 2. Understand how the practical issues can be demonstrated under portfolio management.

CO 3. Learn concept and objectives of investment and its strategies

CO 4. Construct efficient Economic and industry Analysis, Forecasting, Sensitivity of Business Cycle and Industry Life Cycle.

Financial Services

Students will be able to:

CO 1. Develop the knowledge of Indian financial system, its markets, institutions and financial services.

- CO 2. Analyse different financial product and services in the market.
- CO 3. Examine the organization of financial service in money and capital market.
- CO 4. Evaluate the different Concept of venture capital fund, Lease financing, merchantbanking and Mutual funds in India.

Name of Programme-M.Com

Programme Outcomes

- PO1 The students will develop an ability to apply knowledge acquired in problem solving.
- PO2 Ability to work in teams with enhanced communication and inter-personal skills.
- PO3 This Program is to train the student to develop conceptual, applied and research skills as well as competencies required for effective problem solving and right decision making in routine and special activities relevant to financial management and Banking Transactionsof a business.
- PO4The students will be ready for employment in functional areas like Accounting, Taxation, Banking, and Insurance.
- PO5Ability to start entrepreneurial activities.
- PO6To inculcate ethical values, team work, leadership and managerial skills.
- PO7 Students will exhibit inclination towards pursuing professional courses such as CA/ CS etc.

Semester- 1 Managerial EconomicsThe students will be able to:

- CO1 Understand the basics of Managerial Economics.
- CO2 Understand the law of demand and elasticity of demand
- CO3 Learn fundamental laws of consumption, Law of Diminishing Marginal Utility andLaw of Equi-Marginal Utility..
- CO4 Analyse the various theories of marginal economics and theory of Costs.
- CO5Understand the intricacies of National Income, method of measurement and its limitations.

Statistical Analysis for Business

The students will be able to:

- CO1: Interpret the relevance of statistical findings for business problem solving and decisionmaking.
- CO2: Understand and compare various types of probability and non-probability samplingtechniques and their selection for drawing sample.
- CO3: Analyse the various methods of theoretical probability distribution.
- CO4: Know about Design of questionnaire, conduct pilot survey and pretesting of questionnaire.
- CO5: Know the advanced statistical tools for analysis F-Test, T-Test, Z-Test

Management Principles and Organization Behaviour

The students will be able to:

- CO1: Understand the concepts related to Business.
- CO2: Demonstrate the roles, skills and functions of management.
- CO3: Analyse the complexities associated with management of the group behaviour in theorganization.
- CO4: Demonstrate the applicability of the concept of organizational behaviour to understand thebehaviour of people in the organization.

Business Environment

The students will be able to:

- CO1: Know the globalization concept

- CO2: Familiarize political and social environment
- CO3: Analyse the economic and technological environment
- CO4: Identify legal and ecological factors affecting international business

Management Accounting and Control Systems

The students will be able to:

- CO1: Know the basics of management accounting
- CO 2: Learn the financial statement analysis
- CO 3: Understand Relate and classify various sources of raising funds along with plans to attain profit maximization
- CO 4: Examine the performance on the basis of evaluation parameters of enterprise in terms of expenses, control systems and pricing

Seminar

The students will be able to:

- CO 1: Deal with nerves and think more positively about public speaking
- CO 2: Consider ways of grabbing the listener's attention, holding their interest, and concluding strongly
- CO 3: Use body language and tone of voice to enhance their presentations
- CO 4: Use slides and visual aids effectively.

Semester – 2nd

Corporate Financial Accounting and Auditing

The students will be able to:

- CO1: Understand corporate accounting in conformity with the provisions of Companies Act and Accounting as per Indian Accounting Standards.
- CO2: Identify the conceptual aspect of corporate accounting.
- CO3: Understand audits of various concerns: - educational institutions, audit of hospital and audit of bank
- CO4: Understand difference between traditional audit and system audit
- CO5: Learn the cases based on appointment and rights of auditor.

Financial Management

The students will be able to:

- CO1: Acquire sound knowledge of concepts, methods and techniques of Finance management
- CO2: Have knowledge about Business Finance and the background of Accounting and Management.
- CO3: Aware about the challenges and opportunities of Financial Management
- CO4: Develop competence with their usage in managerial decision making and control.

Research Methodology

The students will be able to:

- CO1: Explain the students with the areas of Business Research Activities.
- CO2: Enhance capabilities of students to conduct the research in the field of social sciences and business.
- CO3: Facilitate students, in developing the most appropriate methodology for their research studies.
- CO4: Understand the art of using different research methods and techniques.

Marketing Management

The students will be able to:

- CO1: Know the modern marketing concepts and evaluation
- CO2: Understand the consumer behaviour
- CO3: Analyse the product and price
- CO4: Analyse the promotion mix
- CO5: Explore the place mix and strategies decisions

Human Resource Management

The students will be able to:

- CO1: Have knowledge of the role of HRM in an organisation.
- CO2: Apply their knowledge to gain competitive advantages through people.
- CO3: Develop and design Human Resource Management systems.
- CO4: Understand the basis of the remuneration and incentives system of HRM.

Semester – 3rd

Banking and Insurance Services

The students will be able to:

- CO1: Learn the Commercial banking functions and services
- CO2: Understand the customer banker relationship
- CO3: Analysis the role of RBI in FOREX management
- CO4: Understand the role of IRDAI in development of Insurance sector.

Security Analysis and Portfolio Management

The students will be able to:

- CO1: Have knowledge Provide a theoretical and practical background in the field of investments
- CO2: Explored to different avenues of investment.
- CO3: Measuring the portfolio performances
- CO4: Equipped with the knowledge of security analysis.
- CO5: Apply the concept of portfolio management for the better investment.
- CO6: Invest in less risk and more return securities.

Contemporary Accounting

The students will be able to:

- CO1: Understand more widely in accounting
- CO2: Understand the role of positive accounting theory in explaining and predicting accounting policy choice and the behaviour of the capital markets
- CO3: Critically evaluate the role of regulation in financial reporting
- CO4: Critically analyse a selected contemporary issue in financial accounting and to communicate effectively in writing

Strategic Management

The students will be able to:

- CO1: Understand the basics of Strategic Management.
- CO2: Learn different levels of strategies and the use of it in the business organizations
- CO3: Get the information about corporate restructuring strategies
- CO4: Understand the various strategies and how and why to formulate, implement and evaluate these strategies

Security Market Operations

The students will be able to:

CO1: Understanding about Indian Securities Markets and Operations of Indian Stock Market, New Issue Market; Listing of Securities.

CO2: Understand the management of mutual funds.

CO3: Have Knowledge about Recent developments in the Indian stock market.

CO4: Learn Functions of derivative market in India.

CO5: Get knowledge of risk and rewards of investing in Securities and mutual funds

Seminar

The students will be able to:

CO1: Deal with nerves and think more positively about public speaking

CO2: Consider ways of grabbing the listener's attention, holding their interest, and concluding strongly

CO3: Use body language and tone of voice to enhance their presentations

CO4: Use slides and visual aids effectively

Semester – 4th International Accounting

The students will be able to:

CO1: Know differences between accounting policies of international companies (local GAAP, IFRS, US GAAP)

CO2: Understand the IASB framework and issues arising from the implementation of IFRS rules

CO3: Measure financial performance of a company under IFRS

CO4: Present Financial statements standards under IFRS to gain

CO5: Get Information regarding accounting for foreign currency transactions and translation

International Financial Management

The students will be able to:

CO1: Understand international capital and foreign exchange market

CO2: Identify and appraise investment opportunities in the international environment

CO3: Identify and evaluate foreign direct investment and international acquisition opportunities

CO4: Identify and evaluate foreign direct investment and international acquisition opportunities

Financial Markets and Financial Services

The students will be able to:

CO1: Know the financial system and economic development

CO2: Familiarize with stock exchange functions

CO3: Aware students about to acquire sound knowledge, concept and structure of financial services and capital market.

CO4: Impart knowledge of SEBI, Foreign capital, listing regulation.

Corporate Tax Law and Planning

The students will be able to:

CO1: Understanding the corporate tax laws and use it for tax planning

CO2: Knowledge the difference between tax avoidance and tax planning.

CO3: Aware of what business income is and when it gets taxed

CO4: Knowledge of tax planning in relation to forms of organisations

Name of Programme: M.A. Punjabi

Programme Outcomes

PO-1 ਇਹ ਪ੍ਰੋਗਰਾਮ ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਬੌਧਿਕ ਸੂਝ, ਭਾਵਾਂ ਦੇ ਵਿਚੇਚਨ ਰਾਹੀਂ ਸਧਾਰਨੀਕਰਨ ਦੀ ਸਥਿਤੀ, ਵਿਧੀਵਤ ਗੁਣਵਤਾ ਪੈਦਾ ਕਰਦਾ ਹੈ ਅਤੇ ਸਿੱਖਿਆਤਮਕ, ਵਪਾਰਕ, ਲੋਕ-ਪ੍ਰਸ਼ਾਸਨਿਕ ਅਤੇ ਮਨੋਰੰਜਨ ਆਦਿ ਦੇ ਖੇਤਰਾਂ ਵਿਚ ਉਨਤੀ

ਕਰਨ ਦੇ ਯੋਗ ਬਣਾਉਂਦਾ ਹੈ।

PO-2 ਵਿਦਿਆਰਥੀ ਆਪਣੇ ਵਿਸ਼ਾ ਖੇਤਰ ਦਾ ਅਧਿਐਨ ਕਰਕੇ ਆਪਣੇ ਖੇਤਰ ਵਿਚ ਨਿਪੁੰਨਤਾ ਹਾਸਿਲ ਕਰਦੇ ਹਨ।

PO-3 ਇਸ ਪ੍ਰੋਗਰਾਮ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀ ਵਿਗਿਆਨਕ ਤੇ ਵਿਸ਼ਲੇਸ਼ਣੀ ਦ੍ਰਿਸ਼ਟੀ ਨਾਲ ਦਰਪੇਸ਼ ਚੁਣੌਤੀਆਂ ਨੂੰ ਸਮਝਣ ਦੇ ਯੋਗ ਬਣਦੇ ਹਨ ਅਤੇ ਯੋਜਨਾਬੱਧ ਢੰਗ ਨਾਲ ਇਨ੍ਹਾਂ ਦੀ ਪੂਰਤੀ ਕਰਦੇ ਹਨ।

PO-4 ਇਹ ਪ੍ਰੋਗਰਾਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸੂਖਮ ਤੇ ਸਥੂਲ ਪੱਧਰ ਤੇ ਜਾਣਕਾਰੀ ਮੁਹੱਈਆ ਕਰਵਾਉਂਦਾ ਹੈ ਜੋ ਭਵਿੱਖ ਵਿੱਚ ਵਿਦਿਆਰਥੀ ਨੂੰ ਆਪਣੀ ਪਸੰਦੀਦਾ ਖੋਜ ਵਿਸ਼ੇ ਦੀ ਚੋਣ ਵਿਚ ਸਹਾਇਕ ਹੁੰਦਾ ਹੈ।

PO-5 ਇਹ ਪ੍ਰੋਗਰਾਮ ਭਾਸ਼ਾ ਤੇ ਸਮਾਜਿਕ ਵਿਗਿਆਨਾਂ ਦੇ ਸੰਯੁਕਤ ਪੱਧਰ ਤੇ ਤਾਰਕਿਕ ਸੰਦਾਂ-ਸਿੱਧਾਂਤਾਂ, ਸਮੂਹਿਕ ਕਾਰਜਾਂ, ਸੈਮੀਨਾਰਾਂ, ਵਰਕਸ਼ਾਪਾਂ ਆਦਿ ਦੇ ਮਾਧਿਅਮ ਰਾਹੀਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਿੱਧਾਂਤਕ ਤੇ ਵਿਹਾਰਕ ਸਿੱਖਿਆ ਦਿੰਦੇ ਹਨ।

Programme Specific Outcomes

PSO-1 ਗੁਰਮਤਿ, ਸੂਫੀ, ਗਲਪ, ਵਾਰਤਕ, ਭਾਸ਼ਾ, ਨਾਟਕ, ਫਿਲਾਸਫੀ ਆਦਿ ਦੇ ਜ਼ਰੀਏ ਵਿਦਿਆਰਥੀ ਆਪਣੇ ਬਹੁਮੁੱਲੇ ਅਤੇ ਵੱਖਰਤਾ ਭਰਪੂਰ ਸੱਭਿਆਚਾਰ ਅਤੇ ਪਰੰਪਰਿਕ ਵਿਕਾਸ ਬਾਰੇ ਸਿੱਖਦੇ ਹਨ।

PSO-2 ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਸਮਾਜਿਕ, ਰਾਜਨੀਤਿਕ, ਧਾਰਮਿਕ, ਸੱਭਿਆਚਾਰਕ ਪ੍ਰਸੰਗਾਂ ਦਾ ਮੁਲਾਂਕਣਕਾਰੀ ਦ੍ਰਿਸ਼ਟੀ ਤੋਂ ਵਿਕਾਸ ਹੁੰਦਾ ਹੈ।

PSO-3 ਇਹ ਪ੍ਰੋਗਰਾਮ ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ ਅਤੇ ਸੱਭਿਆਚਾਰ ਦੀ ਉਤਪਤੀ ਅਤੇ ਵਿਕਾਸ ਤੋਂ ਵਾਕਿਫ਼ ਕਰਵਾਉਂਦੇ ਹਨ।

PSO-4 ਭਾਸ਼ਾ ਦੇ ਤੱਤਾਂ ਮੁੱਢਲੇ ਸੰਕਲਪਾਂ, ਸਮਕਾਲੀਨ ਤੇ ਇਤਿਹਾਸਕ ਭਾਸ਼ਿਕ ਵਿਕਾਸ ਅਤੇ ਭਾਸ਼ਾ ਦੀ ਸੰਰਚਨਾ ਬਾਰੇ ਜਾਣਕਾਰੀ ਮਿਲਦੀ ਹੈ।

PSO-5 ਇਹ ਪ੍ਰੋਗਰਾਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਉਪਚਾਰਕ ਅਤੇ ਅਣਉਪਚਾਰਕ ਪੱਧਰ ਤੇ ਸੂਖਮਤਾ ਦੇ ਨਾਲ ਭਾਸ਼ਾ ਦੀ ਵਰਤੋਂ ਦੇ ਸਮਰੱਥ ਬਣਾਉਂਦਾ ਹੈ।

PSO-6 ਇਹ ਪ੍ਰੋਗਰਾਮ ਵਿਦਿਆਰਥੀ ਅੰਦਰ ਸਮਾਜਿਕ, ਰਾਜਨੀਤਿਕ, ਧਾਰਮਿਕ, ਆਰਥਿਕ, ਨੈਤਿਕ ਮੁੱਲ- ਵਿਧਾਨਕ ਸੂਝ ਪੈਦਾ ਕਰਦਾ ਹੈ।

PSO-7 ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਲੋਕ-ਸਾਹਿਤ ਤੇ ਸਾਹਿਤ, ਸਮਾਜ ਅਤੇ ਭਾਸ਼ਾ ਵਿਗਿਆਨ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਦਾਨ ਕਰਦਾ ਹੈ ਜਿਸ ਨਾਲ ਉਨ੍ਹਾਂ ਦੀ ਸਰਵ-ਪੱਖੀ ਸ਼ਖ਼ਸੀਅਤ ਦਾ ਵਿਕਾਸ ਹੁੰਦਾ ਹੈ।

PSO-8 ਇਸ ਨਾਲ ਵਿਦਿਆਰਥੀ ਵਿਭਿੰਨ ਖੇਤਰਾਂ ਵਿਚ ਰੁਜ਼ਗਾਰ ਦੇ ਮੌਕਿਆਂ ਤੋਂ ਲਾਭ ਪ੍ਰਾਪਤ ਕਰ ਸਕੇਗਾ।

M.A. Punjabi

Course: ਪੇਪਰ -I ਗੁਰਮਤਿ ਕਾਵਿ Learning Outcomes-

CO-1 ਵਿਦਿਆਰਥੀ ਗੁਰੂ ਗ੍ਰੰਥ ਸਾਹਿਬ ਵਿਚ ਦਰਜ ਦਸ ਗੁਰੂ ਸਹਿਬਾਨ, ਭਗਤ ਕਵੀ, ਭੱਟ ਅਤੇ ਭਾਈ ਗੁਰਦਾਸ ਦੇ ਜੀਵਨ, ਰਚਨਾ ਤੇ ਦਰਸ਼ਨ ਸੰਬੰਧੀ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦਾ ਹੈ। ਉਹ ਗੁਰਬਾਣੀ ਦੇ ਸਿਧਾਂਤਕ ਪੱਖਾਂ ਦਾ ਜਾਣਕਾਰ ਹੁੰਦਾ ਹੈ। ਜਿਸ ਨਾਲ ਨਾਲ ਉਹ ਗੁਰਮਤਿ ਦੇ ਫਲਸਫੇ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦਾ ਹੈ।

CO-2 ਉਸ ਵਿਚ ਗੁਰਬਾਣੀ ਦੇ ਆਸ਼ੇ ਨੂੰ ਸਮਝਣ ਦਾ ਨਜ਼ਰੀਆ ਵਿਕਸਿਤ ਹੁੰਦਾ ਹੈ।

CO-3 ਸਿੱਖਿਆਰਥੀ ਜੀਵਨ ਵਿੱਚ ਗੁਰਮਤਿ ਕਾਵਿ ਦੇ ਮਾਧਿਅਮ ਦੁਆਰਾ ਨੈਤਿਕ ਕਦਰਾਂ-ਕੀਮਤਾਂ ਤੋਂ ਜਾਣੂ ਹੁੰਦਾ ਹੈ ਜੋ ਉੱਚ ਸਮਾਜਿਕ ਪ੍ਰਬੰਧ ਨੂੰ ਸਿਰਜਣ ਵਿੱਚ ਸਹਾਈ ਹੁੰਦੀਆਂ ਹਨ।

CO-4 ਸੁਖਮਨੀ ਤੇ ਆਸਾ ਦੀ ਵਾਰ ਵਰਗੀਆਂ ਓਤਮ ਬਾਣੀਆਂ ਦੇ ਕਲਾ ਪੱਖ, ਸਮਾਜਿਕ ਪੱਖ, ਦਾਰਸ਼ਨਿਕ ਪੱਖ ਅਤੇ ਸਾਹਿਤਕ ਪੱਖ ਤੋਂ ਪੜਚੋਲ ਕਰਨ ਦੀ ਦ੍ਰਿਸ਼ਟੀ ਕਾਇਮ ਹੁੰਦੀ ਹੈ।

CO-5 ਵਿਦਿਆਰਥੀ ਅੰਦਰ ਗੁਰਮਤਿ ਦੇ ਅਨੁਸਾਰੀ ਹੋ ਕੇ ਗੁਰਮਤਿ ਨੂੰ ਸਮਝਣ ਦੀ ਚੇਤਨਾ ਪੈਦਾ ਹੁੰਦੀ ਹੈ। ਉਸ ਦੀ ਦ੍ਰਿਸ਼ਟੀ ਗਹਿਰ-ਗੰਭੀਰ ਅਤੇ ਵਿਸ਼ਲੇਸ਼ਣਾਤਮਕ ਹੋ ਜਾਂਦੀ ਹੈ।

Course: ਪੇਪਰ -II ਸੂਫੀ ਕਾਵਿ Learning Outcomes

CO-1 ਵਿਦਿਆਰਥੀ ਸੂਫੀ ਕਵੀਆਂ ਦੇ ਜੀਵਨ, ਰਚਨਾ ਤੇ ਸਿਧਾਂਤਕ ਪਹਿਲੂਆਂ ਬਾਰੇ ਜਾਣਕਾਰ ਹੁੰਦਾ ਹੈ ਜਿਸ ਨਾਲ ਨਾਲ ਉਹ ਸੂਫੀ ਫਲਸਫੇ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦਾ ਹੈ।

CO-2 ਉਸ ਵਿਚ ਸੂਫੀ ਅਤੇ ਇਸਲਾਮ ਵਿਚਲੇ ਪਹਿਲੂਆਂ ਨੂੰ ਤੁਲਨਾਤਮਕ ਦ੍ਰਿਸ਼ਟੀ ਤੋਂ ਅਧਿਐਨ ਕਰਨ ਦੀ ਚੇਤਨਾ ਪ੍ਰਬਲ ਹੁੰਦੀ ਹੈ।

CO-3 ਸਿੱਖਿਆਰਥੀ ਜੀਵਨ ਵਿੱਚ ਸੂਫੀਮੱਤ ਦੇ ਮਾਧਿਅਮ ਦੁਆਰਾ ਨੈਤਿਕ ਕਦਰਾਂ-ਕੀਮਤਾਂ ਤੋਂ ਜਾਣੂ ਹੁੰਦਾ ਹੈ।

CO-4 ਬਾਬਾ ਸ਼ੇਖ਼ ਫਰੀਦ, ਸ਼ਾਹ ਹੁਸੈਨ ਅਤੇ ਬੁਲ੍ਹੇ ਸ਼ਾਹ ਜੀ ਦੀਆਂ ਰਚਨਾਵਾਂ ਸ਼ਬਦ, ਸਲੋਕ ਤੇ ਕਾਫ਼ੀਆਂ ਦੇ ਸਿਧਾਂਤਕ, ਸਮਾਜਿਕ, ਦਾਰਸ਼ਨਿਕ ਅਤੇ ਸਾਹਿਤਕ ਪੱਖ ਤੋਂ ਪੜਚੋਲ ਕਰਨ ਦੀ ਦ੍ਰਿਸ਼ਟੀ ਕਾਇਮ ਹੁੰਦੀ ਹੈ।

Course:ਪੇਪਰ –III ਸਾਹਿਤ ਸਿਧਾਂਤ ਅਤੇ ਕਾਵਿ-ਸ਼ਾਸਤਰ Learning Outcomes

- CO-1 ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਦੇ ਸਿਧਾਂਤਕ ਪਹਿਲੂਆਂ ਬਾਰੇ ਗਹਿਨ ਅਧਿਐਨ ਕਰਕੇ ਸਾਹਿਤਿਕ ਦ੍ਰਿਸ਼ਟੀਕੋਣ ਬਣਾਉਣਯੋਗ ਹੁੰਦੇ ਹੀ ਜਿਸ ਨਾਲ ਉਹਨਾਂ ਵਿਚ ਸਾਹਿਤਕ ਸੂਝ ਪੈਦਾ ਹੁੰਦੀ ਹੈ।
- CO-2 ਸਾਹਿਤਕ ਵਾਦਾਂ ਦਾ ਅਧਿਐਨ ਕਰਕੇ ਉਨ੍ਹਾਂ ਦੀ ਦ੍ਰਿਸ਼ਟੀ ਆਲੋਚਨਾਤਮਕ ਰੁਖ ਅਖ਼ਤਿਆਰ ਕਰਦੀ ਹੈ।
- CO-3 ਵਿਦਿਆਰਥੀ ਭਾਰਤੀ ਕਾਵਿ ਸ਼ਾਸਤਰ ਦੇ ਅਧਿਐਨ ਨਾਲ ਕਵਿਤਾ ਦੀ ਗਹਿਨ ਸੰਰਚਨਾ ਤੋਂ ਵਾਕਿਫ਼ ਹੋ ਜਾਂਦੇ ਹਨ।
- CO-4 ਵਿਦਿਆਰਥੀ ਪੱਛਮੀ ਕਾਵਿ-ਸ਼ਾਸਤਰ ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਵਿਸ਼ਵ-ਸਾਹਿਤ ਦੇ ਸਿਧਾਂਤਕ ਪਹਿਲੂਆਂ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ।

Course:ਪੇਪਰ –IV ਲੋਕਧਾਰਾ ਤੇ ਪੰਜਾਬੀ ਲੋਕਧਾਰਾ

Learning Outcomes

- CO-1 ਵਿਦਿਆਰਥੀ ਅੰਦਰ ਲੋਕਧਾਰਾ ਦੇ ਸੰਕਲਪ, ਵਿਸ਼ੇ-ਖੇਤਰ, ਲੋਕਧਾਰਾ ਦੇ ਮੂਲ-ਆਧਾਰਾਂ, ਲੋਕਧਾਰਾ ਤੇ ਆਧੁਨਿਕਤਾ ਸੰਬੰਧੀ ਗਹਿਨ ਅਧਿਐਨ ਕਰਕੇ ਲੋਕਧਾਰਾਈ ਖੇਤਰ ਦੀ ਸੂਝ ਪੈਦਾ ਹੁੰਦੀ ਹੈ।
- CO-2 ਵਿਦਿਆਰਥੀ ਲੋਕ-ਸਹਿਤ ਅਤੇ ਸਹਿਤ ਦੇ ਅੰਤਰ ਸੰਬੰਧ ਨੂੰ ਸਮਝਣ ਦੇ ਯੋਗ ਬਣਦੇ ਹਨ।
- CO-3 ਲੋਕ-ਸਹਿਤ ਦੇ ਵੱਖ-ਵੱਖ ਰੂਪਾਂ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਕੇ ਸੱਭਿਆਚਾਰਕ ਚੇਤਨਾ ਪੈਦਾ ਹੁੰਦੀ ਹੈ।
- CO-4 ਲੋਕ-ਧਰਮ ਤੇ ਲੋਕ-ਵਿਸ਼ਵਾਸਾਂ, ਲੋਕ-ਰੀਤਾਂ, ਲੋਕ-ਚਿਕਿਤਸਾ ਦਾ ਅਧਿਐਨ ਰਾਹੀਂ ਆਪਣੇ ਵਿਰਸੇ ਦੇ ਅਮੀਰ ਪਹਿਲੂਆਂ ਦੀ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਕੇ ਉਨ੍ਹਾਂ ਨੂੰ ਆਪਣੇ ਜੀਵਨ ਦਾ ਆਧਾਰ ਬਣਾਉਂਦੇ ਹਨ।
- CO-5 ਲੋਕ-ਕਲਾਵਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਕੇ ਉਹ ਰੁਜ਼ਗਾਰ ਲਈ ਕਈ ਮੌਕੇ ਤਲਾਸ਼ ਸਕਦੇ ਹਨ।

Course:ਪੇਪਰ –V ਤੁਲਨਾਤਮਕ ਭਾਰਤੀ ਸਾਹਿਤ:ਸਿਧਾਂਤ ਤੇ ਵਿਹਾਰ Learning Outcomes

- CO-1 ਵਿਦਿਆਰਥੀ ਭਾਰਤੀ ਸਾਹਿਤ ਦੇ ਸਿਧਾਂਤਾਂ ਦਾ ਤੁਲਨਾਤਮਕ ਗਹਿਨ ਅਧਿਐਨ ਕਰਕੇ ਸਾਹਿਤ ਪ੍ਰਤੀ ਤੁਲਨਾਤਮਕ ਦ੍ਰਿਸ਼ਟੀ ਅਪਣਾਉਂਦੇ ਹਨ।
- CO-2 ਤੁਲਨਾਤਮਕ ਅਧਿਐਨ ਦੌਰਾਨ ਵਿਦਿਆਰਥੀਆਂ ਵਿਚ ਅਨੁਵਾਦਿਤ ਰਚਨਾਵਾਂ ਪੜ੍ਹਨ ਤੇ ਕਰਨ ਦੀ ਰੁਚੀ ਪ੍ਰਬਲ ਹੁੰਦੀ ਹੈ।
- CO-3 ਪੰਜਾਬੀ ਸਾਹਿਤ ਸੰਸਕ੍ਰਿਤ, ਅਰਬੀ, ਫ਼ਾਰਸੀ, ਰੂਸੀ ਅਤੇ ਪੱਛਮੀ ਸਹਿਤ ਦੇ ਪ੍ਰਭਾਵਾਂ ਤੋਂ ਵਾਕਿਫ਼ ਹੋ ਕੇ ਵਿਸ਼ਵ ਸਾਹਿਤ ਜਾਨਣ ਦੀ ਤੇ ਸਮਝਣ ਦੀ ਇੱਛਾ ਪੂਰਤੀ ਹੁੰਦੀ ਹੈ।

Course:ਪੇਪਰ –VI ਭਗਤ ਬਾਣੀ Learning Outcomes

- CO-1 ਵਿਦਿਆਰਥੀ ਭਗਤੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਤੇ ਸਿਧਾਂਤਕ ਪੱਖਾਂ ਨੂੰ ਜਾਣਦੇ ਹਨ।
- CO-2 ਕਾਵਿ ਅਤੇ ਧਾਰਮਿਕ-ਕਾਵਿ ਵਿਚਲੇ ਅੰਤਰ ਨੂੰ ਸਮਝ ਕੇ ਸਹੀ ਕਾਵਿਕ ਦ੍ਰਿਸ਼ਟੀ ਸਹਿਤ ਅਧਿਐਨ ਕਰਨ ਵੱਲ ਅਗਰਸਰ ਹੁੰਦੇ ਹਨ।
- CO-3 ਭਗਤੀ ਸਾਹਿਤ ਦੇ ਮੂਲ-ਸਰੋਕਾਰਾਂ ਤੋਂ ਜਾਣੂ ਹੋ ਕੇ ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ 'ਤੇ ਭਗਤੀ ਸਾਹਿਤ ਦੇ ਪ੍ਰਭਾਵਾਂ ਦਾ ਅਧਿਐਨ ਕਰਕੇ ਮੱਧਕਾਲ ਦੇ ਅਮੁੱਲ ਵਿਰਸੇ ਦੀ ਅਮੀਰ ਪਰੰਪਰਾ ਨਾਲ ਜੁੜਦੇ ਹਨ।
- CO-4 ਭਗਤੀ ਕਾਲ ਦੇ ਪ੍ਰਮੁੱਖ ਭਗਤਾਂ ਨਾਮਦੇਵ, ਕਬੀਰ, ਰਵਿਦਾਸ ਦੀ ਰਚਨਾਂ, ਦਰਸ਼ਨ ਅਤੇ ਉਨ੍ਹਾਂ ਦੀ ਸਮਾਜ- ਸੱਭਿਆਚਾਰਕ ਦੇਣ ਦਾ ਅਧਿਐਨ ਕਰਕੇ ਸਮਾਜ 'ਚ ਸਰਬਸਾਂਝੀਵਾਲਤਾ ਦੀ ਭਾਵਨਾ ਨੂੰ ਉਜਾਗਰ ਕਰਨ ਦੇ ਯੋਗ ਬਣਦੇ ਹਨ।

Course:ਪੇਪਰ –VII ਪੰਜਾਬੀ ਕਿੱਸਾ ਕਾਵਿ ਤੇ ਬਿਰਤਾਂਤ ਕਾਵਿ

Learning Outcomes

- CO-1 ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਕਿੱਸਾ ਕਾਵਿ ਤੇ ਬਿਰਤਾਂਤ ਕਾਵਿ ਦੇ ਸਿਧਾਂਤਕ ਪਰਿਪੇਖ ਬਾਰੇ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਕੇ ਇਸ ਦੇ ਵਿਕਾਸ ਪੜਾਵਾਂ ਬਾਰੇ ਗਹਿਨ ਦ੍ਰਿਸ਼ਟੀ ਤੋਂ ਅਧਿਐਨ ਕਰਨ ਯੋਗ ਹੁੰਦੇ ਹਨ।
- CO-2 ਕਿੱਸਾ, ਵਾਰ, ਜੰਗਨਾਮਾ ਵਿਚ ਅੰਤਰ ਨਿਖੇੜ ਕਰਨ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ।
- CO-3 ਗੁਰੂ ਗੋਬਿੰਦ ਸਿੰਘ ਦੀ ਮਹਾਨ ਰਚਨਾ 'ਚੰਡੀ ਦੀ ਵਾਰ' ਦਾ ਸਰੋਤਕ ਵੇਰਵਿਆਂ ਨਾਲ ਸਮੁੱਚਤਾ ਸਹਿਤ ਅਧਿਐਨ ਪ੍ਰਾਪਤ ਕਰਕੇ ਆਪਣੇ ਜੀਵਨ ਵਿਚ ਉਤਸ਼ਾਹ ਭਰਪੂਰ ਬਦਲਾ ਲਿਆਉਂਦੇ ਹਨ।
- CO-4 ਵਾਰਿਸ ਸ਼ਾਹ ਦੀ ਹੀਰ ਦੇ ਅਧਿਐਨ ਤੋਂ ਮੱਧਕਾਲੀ ਸਮਾਜ ਦੇ ਭਰਪੂਰ ਸੱਭਿਆਚਾਰਕ ਮੁਹਾਂਦਰੇ ਦੀ ਸੋਝੀ ਮਿਲਦੀ ਹੈ।
- CO-5 ਜੰਗਨਾਮਾ ਸ਼ਾਹ ਮੁਹੰਮਦ ਨਾਲ ਵਿਦਿਆਰਥੀ ਅੰਗਰੇਜ਼ਾਂ ਤੇ ਸਿੰਘਾਂ ਦਰਮਿਆਨ ਹੋਈ ਜੰਗ ਦੇ ਇਤਿਹਾਸਕ ਵੇਰਵਿਆਂ ਤੋਂ ਜਾਣੂ ਹੋ ਕੇ ਆਪਣੇ ਪੰਜਾਬੀ ਖ਼ਾਸੇ ਦੇ ਰੂ-ਬ-ਰੂ ਹੁੰਦੇ ਹਨ।

Course:ਪੇਪਰ –VIII ਖੋਜ ਅਤੇ ਪੰਜਾਬੀ ਆਲੋਚਨਾ Learning Outcomes

CO-1 ਵਿਦਿਆਰਥੀ ਖੋਜ ਦੇ ਸਮੁੱਚੇ ਵਰਤਾਰੇ ਤੋਂ ਵਾਕਿਫ਼ ਹੁੰਦੇ ਹਨ।

CO-2 ਸਾਹਿਤ ਆਲੋਚਨਾ ਦੀਆਂ ਆਲੋਚਨਾ ਪ੍ਰਣਾਲੀਆਂ ਬਾਰੇ ਸਿਧਾਂਤਕ, ਵਿਹਾਰਕ ਤੇ ਸੰਰਚਨਾਮਕ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ।

CO-3 ਪੰਜਾਬੀ ਆਲੋਚਨਾ ਦੇ ਆਰੰਭ ਅਤੇ ਵਿਕਾਸ ਪੜਾਵਾਂ ਨੂੰ ਸਮੁੱਚਤਾ ਸਹਿਤ ਗ੍ਰਹਿਣ ਕਰਦੇ ਹਨ।

CO-4 ਮੈਟਾ ਆਲੋਚਨਾ ਦੀ ਪੱਧਤੀ ਨਾਲ ਵਿਦਿਆਰਥੀ ਆਲੋਚਨਾ ਦੀ ਆਲੋਚਨਾ ਕਰਨੀ ਸਿੱਖਦੇ ਹਨ।

CO-5 ਵਿਦਿਆਰਥੀ ਖੋਜ ਅਤੇ ਆਲੋਚਨਾ ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਮੁਲਾਂਕਣ ਦ੍ਰਿਸ਼ਟੀ ਗ੍ਰਹਿਣ ਕਰਦੇ ਹਨ। CO-6 ਵਿਦਿਆਰਥੀ ਖੋਜ-ਪੱਤਰ ਲਿਖਣ ਦੀ ਵਿਧੀ ਦੀਆਂ ਬਾਰੀਕੀਆਂ ਤੋਂ ਜਾਣੂ ਹੁੰਦੇ ਹਨ।

Course:ਪੇਪਰ –IX ਸਭਿਆਚਾਰ ਤੇ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ Learning Outcomes-

CO-1 ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਦੇ ਸਿਧਾਂਤਕ ਵੇਰਵਿਆਂ ਦਾ ਅਧਿਐਨ ਕਰਦਿਆਂ ਉਸਦੀ ਗੁੰਝਲਦਾਰ ਪ੍ਰਕ੍ਰਿਤੀ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ।

CO-2 ਸਭਿਆਚਾਰਕ ਮੁੱਲ-ਵਿਧਾਨ ਨੂੰ ਆਪਣੀ ਜ਼ਿੰਦਗੀ ਵਿੱਚ ਧਾਰਨ ਕਰਦੇ ਹਨ।

CO-3 ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਦੇ ਭੂਗੋਲਿਕ ਖੇਤਰ ਅਤੇ ਇਤਿਹਾਸਕ ਵੇਰਵਿਆਂ ਦਾ ਅਧਿਐਨ ਕਰਕੇ ਆਪਣੇ ਸਭਿਆਚਾਰ ਪ੍ਰਤੀ ਬਹੁਮੁੱਲੀ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ।

CO-4 ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਦੇ ਕੀਮਤ ਪ੍ਰਬੰਧ ਦਾ ਗਹਿਨਤਾ ਸਹਿਤ ਅਧਿਐਨ ਕਰਦਿਆਂ ਆਪਣੇ ਜ਼ਿੰਦਗੀ ਦਾ ਹਿੱਸਾ ਬਣਾਉਂਦੇ ਹਨ।

Course:ਪੇਪਰ –X ਪੰਜਾਬੀ ਮੀਡੀਆ ਤੇ ਪੱਤਰਕਾਰੀ ਆਪਸ਼ਨ-I

Learning Outcomes

CO-1 ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਮੀਡੀਆ ਤੇ ਪੱਤਰਕਾਰੀ ਦੇ ਸਿਧਾਂਤਕ ਪਰਿਪੇਖ ਬਾਰੇ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਕੇ ਇਸ ਦੇ ਵਿਕਾਸ ਪੜਾਵਾਂ ਬਾਰੇ ਗਹਿਨ ਦ੍ਰਿਸ਼ਟੀ ਤੋਂ ਅਧਿਐਨ ਕਰਨ ਯੋਗ ਹੁੰਦੇ ਹਨ।

CO-2 ਪੱਤਰਕਾਰੀ ਦੇ ਰੂਪ, ਇਤਿਹਾਸ, ਪੰਜਾਬੀ ਪੱਤਰਕਾਰੀ ਅਤੇ ਸਾਹਿਤਕ ਪੱਤਰਕਾਰੀ ਬਾਰੇ ਵਿਸਥਾਰ ਸਹਿਤ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ।

CO-3 ਸ਼ੋਸ਼ਲ ਮੀਡੀਆ ਵਿਭਿੰਨ ਰੂਪ, ਆਨਲਾਈਨ ਪੰਜਾਬੀ ਅਖ਼ਬਾਰਾਂ ਤੇ ਵੱਖ-ਵੱਖ ਪੰਜਾਬੀ ਚੈਨਲਾਂ ਸੰਬੰਧੀ ਜਾਣਕਾਰੀ ਗ੍ਰਹਿਣ ਕਰਦੇ ਹਨ।

CO-4 ਪੰਜਾਬੀ ਪੱਤਰਕਾਰੀ ਤੇ ਪੰਜਾਬੀ ਇਲੈਕਟ੍ਰੋਨਿਕ ਮੀਡੀਆ ਦੀਆਂ ਅਜੋਕੇ ਸਮੇਂ ਵਿੱਚ ਚੁਣੌਤੀਆਂ ਤੇ ਸੰਭਵਨਾਵਾਂ ਬਾਰੇ ਚੇਤੰਨ ਹੁੰਦੇ ਹਨ।

CO-5 ਪੰਜਾਬੀ ਪੱਤਰਕਾਰੀ ਤੇ ਪੰਜਾਬੀ ਇਲੈਕਟ੍ਰੋਨਿਕ ਮੀਡੀਆ ਦੇ ਖੇਤਰਾਂ ਵਿਚ ਰੁਜ਼ਗਾਰ ਪ੍ਰਾਪਤੀ ਦੀ ਸੰਭਾਵਨਾਵਾਂ ਸੰਬੰਧੀ ਜਾਣਕਾਰ ਹੁੰਦੇ ਹਨ।

Course: ਪੇਪਰ –X ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਤੇ ਕੰਪਿਊਟਰ ਐਪਲੀਕੇਸ਼ਨ ਆਪਸ਼ਨ -II

Learning Outcomes

CO-1 ਵਿਦਿਆਰਥੀ ਸਮਾਜ ਦੇ ਵੱਖ-ਵੱਖ ਵਿਭਾਗਾਂ ਜਿਵੇਂ ਰੇਲਵੇ, ਬੈਂਕਿੰਗ, ਹੋਟਲ ਮੈਨੇਜਮੈਂਟ ਐਜੂਕੇਸ਼ਨ, ਸਮਾਰਟ ਮੋਬਾਈਲ ਡਿਵਾਈਸ, ਮੌਸਮ ਵਿਭਾਗ, ਮਨੋਰੰਜਨ ਅਤੇ ਦਫ਼ਤਰਾਂ ਵਿੱਚ ਕੰਪਿਊਟਰ ਦੀ ਵਰਤੋਂ ਕਰਨੀ ਸਿੱਖ ਕੇ ਰੁਜ਼ਗਾਰਮੁਖ ਬਣਦੇ ਹਨ।

CO-2 ਇਸ ਨਾਲ ਵਿਦਿਆਰਥੀ ਕੰਪਿਊਟਰ ਸੰਬੰਧੀ ਮੁੱਢਲੀ ਜਾਣ-ਪਛਾਣ ਅਤੇ ਇਤਿਹਾਸ ਬਾਰੇ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ।

CO-3 ਉਹ ਹਾਰਡਵੇਅਰ, ਸਾਫ਼ਟਵੇਅਰ ਤੇ ਪ੍ਰੋਗਰਾਮਿੰਗ ਭਾਸ਼ਾ ਬਾਰੇ ਸਿਖਲਾਈ ਹਾਸਿਲ ਕਰਦੇ ਹਨ।

CO-4 ਸਿੱਖਿਆਰਥੀ ਅਪਰੇਟਿੰਗ ਸਿਸਟਮ, ਪ੍ਰਮੁੱਖ ਕੰਪਿਊਟਰ ਸੈਟਿੰਗ ਤੋਂ ਇਲਾਵਾ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਇਤਿਹਾਸ ਤੇ ਵਿਕਾਸ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।

CO-5 ਇੰਟਰਨੈੱਟ ਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀ ਵਰਤੋਂ ਦੇ ਨਾਲ-ਨਾਲ ਆਨਲਾਈਨ ਅਧਿਐਨ ਅਤੇ ਅਧਿਆਪਨ ਦੀ ਵਿਧੀ ਤੋਂ ਜਾਣੂ ਹੁੰਦੇ ਹਨ।

Course: ਪੇਪਰ –XI ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ Learning Outcomes-

- CO-1 ਕਵਿਤਾ ਦੀ ਪ੍ਰਕ੍ਰਿਤੀ, ਰੂਪਾਕਾਰ, ਇਤਿਹਾਸਕ ਪ੍ਰਵਿਰਤੀਆਂ ਨਵੇਂ ਝੁਕਾਵਾਂ ਬਾਰੇ ਵਿਦਿਆਰਥੀ ਅਧਿਐਨ ਕਰਕੇ ਪੰਜਾਬੀ ਕਵਿਤਾ ਨੂੰ ਸਮੁੱਚੇ ਵਿੱਚ ਸਮਝਦਾ ਹੈ।
- CO-2 ਇਨ੍ਹਾਂ ਸਿਧਾਂਤਾਂ ਦਾ ਅਧਿਐਨ ਕਰਕੇ ਵਿਦਿਆਰਥੀ ਦੀ ਸੋਚ ਸ਼ਕਤੀ ਵਿੱਚ ਵਾਧਾ ਹੁੰਦਾ ਹੈ ਤੇ ਉਸ ਦੀਆਂ ਕਾਵਿਕ ਰੁਚੀਆਂ ਪ੍ਰਬਲ ਹੁੰਦੀਆਂ ਹਨ।
- CO-3 ਪੰਜਾਬੀ ਦੇ ਪ੍ਰਮੁੱਖ ਕਵੀ ਭਾਈ ਵੀਰ ਸਿੰਘ, ਸ਼ਿਵ ਕੁਮਾਰ, ਐੱਸ.ਐੱਸ.ਮੀਸ਼ਾ ਦੇ ਜੀਵਨ ਅਤੇ ਰਚਨਾ ਜਿੱਥੇ ਵਿਦਿਆਰਥੀ ਦੀ ਕਾਵਿਕ ਦ੍ਰਿਸ਼ਟੀ ਪ੍ਰਬਲ ਹੁੰਦੀ ਹੈ, ਉੱਥੇ ਉਹ ਕਵਿਤਾ ਦੀਆਂ ਵਿਭਿੰਨ ਪ੍ਰਵਿਰਤੀਆਂ ਨੂੰ ਸਮਝਣ ਯੋਗ ਹੋ ਜਾਂਦਾ ਹੈ।

Course: ਪੇਪਰ –XII ਪੰਜਾਬੀ ਨਾਵਲ Learning Outcomes-

- CO-1 ਨਾਵਲ ਦੀ ਪ੍ਰਕ੍ਰਿਤੀ, ਰੂਪਾਕਾਰ, ਇਤਿਹਾਸਕ ਪ੍ਰਵਿਰਤੀਆਂ ਨਵੇਂ ਝੁਕਾਵਾਂ ਬਾਰੇ ਵਿਦਿਆਰਥੀ ਅਧਿਐਨ ਕਰਕੇ ਪੰਜਾਬੀ ਨਾਵਲ ਦੇ ਮੁਹਾਂਦਰੇ ਨੂੰ ਸਮੁੱਚੇ ਵਿੱਚ ਸਮਝਦਾ ਹੈ।
- CO-2 ਇਨ੍ਹਾਂ ਸਿਧਾਂਤਾਂ ਦਾ ਅਧਿਐਨ ਕਰਕੇ ਵਿਦਿਆਰਥੀ ਦੀ ਸੋਚ ਸ਼ਕਤੀ ਵਿੱਚ ਵਾਧਾ ਹੁੰਦਾ ਹੈ ਤੇ ਉਸ ਦੀਆਂ ਨਾਵਲੀ ਰੁਚੀਆਂ ਪ੍ਰਬਲ ਹੁੰਦੀਆਂ ਹਨ।
- CO-3 ਪੰਜਾਬੀ ਦੇ ਪ੍ਰਮੁੱਖ ਨਾਵਲਕਾਰ ਨਾਨਕ ਸਿੰਘ, ਗੁਰਦਿਆਲ ਸਿੰਘ, ਮਨਮੋਹਣ ਬਾਵਾ ਦੇ ਜੀਵਨ ਅਤੇ ਰਚਨਾ ਜਿੱਥੇ ਵਿਦਿਆਰਥੀ ਦੀ ਨਾਵਲੀ ਦ੍ਰਿਸ਼ਟੀ ਪ੍ਰਬਲ ਹੁੰਦੀ ਹੈ, ਉੱਥੇ ਉਹ ਨਾਵਲ ਦੀਆਂ ਵਿਭਿੰਨ ਪ੍ਰਵਿਰਤੀਆਂ ਨੂੰ ਸਮਝਣ ਯੋਗ ਹੋ ਜਾਂਦਾ ਹੈ।

Course: ਪੇਪਰ –XIII ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਅਤੇ ਭਾਸ਼ਾ ਵਿਗਿਆਨ-I

Learning Outcomes

- CO-1 ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਸਿਧਾਂਤਕ ਪਰਿਪੇਖ ਬਾਰੇ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਕੇ ਭਾਸ਼ਾ ਦਾ ਗਹਿਨ ਦ੍ਰਿਸ਼ਟੀ ਤੋਂ ਅਧਿਐਨ ਕਰਨ ਯੋਗ ਹੁੰਦੇ ਹਨ।
- CO-2 ਭਾਸ਼ਾ ਦੀ ਸੰਰਚਨਾ ਦਾ ਬਰੀਕੀ ਨਾਲ ਅਧਿਐਨ ਕਰਕੇ ਭਾਸ਼ਾ ਦੀ ਸਯੋਗ ਵਰਤੋਂ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ।
- CO-3 ਭਾਸ਼ਾ ਦੇ ਵਿਗਿਆਨਕ ਅਧਿਐਨ ਦੁਆਰਾ ਭਾਸ਼ਾਈ ਪੱਧਰ ਦੀ ਖੋਜ ਅਤੇ ਮੁਲਾਂਕਣ ਦੇ ਯੋਗ ਹੁੰਦੇ ਹਨ।
- CO-4 ਭਾਸ਼ਾ ਵਿਚ ਆਏ ਪਰਿਵਰਤਨਾਂ ਤੋਂ ਜਾਣੂ ਹੁੰਦਾ ਹੈ।

Course: ਪੇਪਰ –XIV ਪੰਜਾਬੀ ਵਾਰਤਕ-II Learning Outcomes

- CO-1 ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਮੱਧਕਾਲੀ ਵਾਰਤਕ ਦੇ ਸਿਧਾਂਤਕ ਪਹਿਲੂਆਂ ਤੋਂ ਵਾਕਿਫ ਹੁੰਦੇ ਹਨ ਅਤੇ ਪੰਜਾਬੀ ਵਾਰਤਕ ਦੀ ਪੁਰਾਤਨ ਵਾਰਤਕ ਰੂਪ ਵਿਧਾਵਾਂ ਦੀ ਅਮੀਰ ਪਰੰਪਰਾ ਦਾ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।
- CO-2 ਪੰਜਾਬੀ ਵਾਰਤਕ ਦੀ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਅਤੇ ਸਾਹਿਤਕ ਰੂਪਾਂ ਦਾ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।
- CO-3 ਮੱਧਕਾਲੀ ਪੰਜਾਬੀ ਵਾਰਤਕ ਦੇ ਨਾਲ-ਨਾਲ ਆਧੁਨਿਕ ਵਾਰਤਕ ਦੇ ਵਿਭਿੰਨ ਪਸਾਰਾਂ ਨਾਲ ਸੰਵਾਦ ਰਚਾਉਂਦੇ ਹਨ।
- CO-4 ਵਾਰਤਕ ਦੇ ਗਹਿਨ ਅਧਿਐਨ ਦੁਆਰਾ ਖੋਜ ਅਤੇ ਮੁਲਾਂਕਣ ਦੇ ਯੋਗ ਹੁੰਦੇ ਹਨ।

Course: ਪੇਪਰ –XV ਪੰਜਾਬੀ ਨਾਟਕ ਤੇ ਇਕਾਂਗੀ

Learning Outcomes

- CO-1 ਵਿਦਿਆਰਥੀ ਅੰਦਰ ਰੰਗਮੰਚ ਦੇ ਸੰਕਲਪ, ਵਿਸ਼ੇ ਖੇਤਰ, ਮੂਲ-ਸਿਧਾਂਤ ਸੰਬੰਧੀ ਗਹਿਨ ਅਧਿਐਨ ਕਰਕੇ ਰੰਗਮੰਚੀ ਖੇਤਰ ਦੀ ਸੂਝ ਪੈਦਾ ਹੁੰਦੀ ਹੈ।
- CO-2 ਵਿਦਿਆਰਥੀ ਨਾਟਕ ਅਤੇ ਇਕਾਂਗੀ ਦਾ ਨਿਖੇੜਾ ਤੇ ਅੰਤਰ ਸੰਬੰਧ ਨੂੰ ਸਮਝਣ ਦੇ ਯੋਗ ਬਣਦੇ ਹਨ।
- CO-3 ਵਿਦਿਆਰਥੀ ਅੰਦਰ ਸਾਹਿਤ ਦੀ ਵਿਧਾ ਨਾਟਕ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਕੇ ਰੰਗਮੰਚੀ ਚੇਤਨਾ ਪੈਦਾ ਹੁੰਦੀ ਹੈ।
- CO-4 ਨਾਟਕ ਪੜ੍ਹਨ ਤੇ ਵੇਖਣ ਨਾਲ ਉਸ ਅੰਦਰ ਅਭਿਨੈ ਕਲਾ ਦਾ ਵਿਕਾਸ ਹੁੰਦਾ ਹੈ।
- CO-5 ਅਭਿਨੈ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਕੇ ਉਹ ਰੁਜ਼ਗਾਰ ਲਈ ਕਈ ਮੌਕੇ ਤਲਾਸ਼ ਸਕਦੇ ਹਨ।

Course: ਪੇਪਰ –XVI ਵਿਸ਼ਵ ਕਲਾਸਿਕੀ ਸਾਹਿਤ Learning Outcomes

- CO-1 ਵਿਦਿਆਰਥੀ ਵਿਸ਼ਵ ਕਲਾਸਿਕੀ ਸਾਹਿਤ ਦੀ ਪ੍ਰਕ੍ਰਿਤੀ, ਪ੍ਰਸੰਗਿਕਤਾ ਅਤੇ ਸਿਧਾਂਤਕ ਆਧਾਰਾਂ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਕੇ ਵਿਸ਼ਵ ਪੱਧਰ ਦੇ ਸਾਹਿਤ ਨੂੰ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦਾ ਹੈ।

CO-2 ਚੈਕਵ, ਅਰਨੈਸਟ ਹਮਿੰਗਵੇ, ਖਲੀਲ ਜ਼ਿਬਰਾਨ ਪੱਛਮੀ ਸਾਹਿਤਕਾਰਾਂ ਦੀ ਕਹਾਣੀਆਂ ਤੇ ਨਾਵਲ ਪੜ੍ਹ ਕੇ ਵਿਸ਼ਵ ਪੱਧਰ ਦਾ ਦ੍ਰਿਸ਼ਟੀਕੋਣ ਬਣਦਾ ਹੈ।

CO-3 ਵਿਦਿਆਰਥੀ ਵਿਸ਼ਵ ਸਹਿਤ ਦਾ ਅਧਿਐਨ ਕਰਕੇ ਸ਼ਖ਼ਸੀ ਵਿਕਾਸ ਕਰਦਾ ਹੈ।

Course: ਪੇਪਰ –XVII ਪੰਜਾਬੀ ਕਹਾਣੀ Learning Outcomes

CO-1 ਵਿਦਿਆਰਥੀ ਅੰਦਰ ਲੋਕਧਾਰਾ ਦੇ ਸੰਕਲਪ, ਵਿਸ਼ੇ ਖੇਤਰ ਲੋਕਧਾਰਾ ਦੇ ਮੂਲ ਆਧਾਰਾਂ ਤੇ ਲੋਕਧਾਰਾ ਤੇ ਆਧੁਨਿਕਤਾ ਸੰਬੰਧੀ ਗਹਿਨ ਅਧਿਐਨ ਕਰਕੇ ਲੋਕਧਾਰਾਈ ਖੇਤਰ ਦੀ ਸੂਝ ਪੈਦਾ ਹੁੰਦੀ ਹੈ।

CO-2 ਵਿਦਿਆਰਥੀ ਲੋਕ-ਸਾਹਿਤ ਅਤੇ ਸਾਹਿਤ ਦੇ ਅੰਤਰ ਸੰਬੰਧ ਨੂੰ ਸਮਝਣ ਦੇ ਯੋਗ ਬਣਦੇ ਹਨ।

CO-3 ਵਿਦਿਆਰਥੀ ਅੰਦਰ ਲੋਕ ਸਹਿਤ ਦੇ ਵੱਖ-ਵੱਖ ਰੂਪਾਂ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਕੇ ਸੱਭਿਆਚਾਰਕ ਚੇਤਨਾ ਪੈਦਾ ਹੁੰਦੀ ਹੈ।

CO-4 ਲੋਕ-ਧਰਮ ਤੇ ਲੋਕ-ਵਿਸ਼ਵਾਸਾਂ, ਲੋਕ-ਰੀਤਾਂ, ਲੋਕ-ਚਿਕਿਤਸਾ ਦਾ ਅਧਿਐਨ ਆਪਣੇ ਵਿਰਸੇ ਦੇ ਅਮੀਰ ਪਹਿਲੂਆਂ ਦੀ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਕੇ ਉਨ੍ਹਾਂ ਨੂੰ ਆਪਣੇ ਜੀਵਨ ਦਾ ਆਧਾਰ ਬਣਾਉਂਦੇ ਹਨ।

CO-5 ਲੋਕ-ਕਲਾਵਾਂ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਕੇ ਉਹ ਰੁਜ਼ਗਾਰ ਲਈ ਕਈ ਮੌਕੇ ਤਲਾਸ਼ ਸਕਦੇ ਹਨ।

Course: ਪੇਪਰ –XVIII ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਤੇ ਭਾਸ਼ਾ ਵਿਗਿਆਨ ਆਪਸ਼ਨ-II

Learning Outcomes

CO 1. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀਆਂ ਵਿਆਕਰਣਕ ਇਕਾਈਆਂ ਤੇ ਸ਼੍ਰੇਣੀਆਂ ਦੇ ਸਿਧਾਂਤਕ ਪਰਿਪੇਖ ਬਾਰੇ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਕੇ ਭਾਸ਼ਾ ਦੀ ਵਿਆਕਰਣ ਪਰਤਾਂ ਦਾ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।

CO 2. ਭਾਸ਼ਾ ਦੇ ਅਰਥ ਵਿਗਿਆਨਕ ਸਰੋਕਾਰਾਂ ਦਾ ਬਾਰੀਕੀ ਨਾਲ ਅਧਿਐਨ ਕਰਕੇ ਭਾਸ਼ਾ ਦੀ ਸਯੋਗ ਵਰਤੋਂ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ।

CO 3. ਭਾਸ਼ਾ ਦੇ ਵਿਗਿਆਨਕ ਅਧਿਐਨ ਦੁਆਰਾ ਖੇਤਰੀ ਪੱਧਰ ਦੀਆਂ ਉਪ-ਭਾਸ਼ਾਈ ਵੰਨਗੀਆਂ ਨੂੰ ਵਿਸਥਾਰ ਸਹਿਤ ਸਮਝਦਾ ਹੈ।

CO 4. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀ ਔਰਥੋਗ੍ਰਾਫੀ ਦਾ ਅਧਿਐਨ ਕਰਕੇ ਪੰਜਾਬੀ ਵਰਣਾਂ ਦੀ ਸਯੋਗ ਵਰਤੋਂ ਕਰਨ ਯੋਗ ਹੁੰਦਾ ਹੈ।

CO 5. ਵਿਦਿਆਰਥੀ ਅੰਦਰ ਭਾਸ਼ਾ ਦੀ ਖੋਜ ਪ੍ਰਤੀ ਮੁਲਾਂਕਣਕਾਰੀ ਦ੍ਰਿਸ਼ਟੀ ਪੈਦਾ ਹੁੰਦੀ ਹੈ।

Course: ਪੇਪਰ –XIX ਪੰਜਾਬੀ ਵਾਰਤਕ-III Learning Outcomes

CO 1. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਆਧੁਨਿਕ ਵਾਰਤਕ ਦੇ ਰੂਪ ਸਵੈ-ਜੀਵਨੀ, ਸਫ਼ਰਨਾਮਾ ਤੇ ਰੇਖਾ ਚਿੱਤਰ ਤੋਂ ਵਾਕਿਫ਼ ਹੁੰਦਾ ਹੈ।

CO 2. ਪੰਜਾਬੀ ਵਾਰਤਕ ਦੇ ਇਨ੍ਹਾਂ ਸਾਹਿਤਕ ਰੂਪਾਂ ਦੇ ਸਮਾਜਿਕ, ਇਤਿਹਾਸਕ, ਥੀਮਕ ਪਾਸਾਰਾਂ ਦਾ ਵਿਸ਼ਲੇਸ਼ਣੀ ਦ੍ਰਿਸ਼ਟੀ ਤੋਂ ਅਧਿਐਨ ਕਰਨਾ ਸਿੱਖਦਾ ਹੈ।

CO 3. ਆਧੁਨਿਕ ਵਾਰਤਕ ਦੇ ਵਿਭਿੰਨ ਪਸਾਰਾਂ ਨਾਲ ਸੰਵਾਦ ਰਚਾਉਂਦਾ ਹੈ।

CO 4. ਵਾਰਤਕ ਦੇ ਗਹਿਨ ਅਧਿਐਨ ਦੁਆਰਾ ਖੋਜ ਅਤੇ ਮੁਲਾਂਕਣ ਦੇ ਯੋਗ ਹੁੰਦਾ ਹੈ।

Course: ਪੇਪਰ –XX ਪਰਵਾਸੀ ਪੰਜਾਬੀ ਸਾਹਿਤ Learning Outcomes

CO 1. ਵਿਦਿਆਰਥੀ ਪਰਵਾਸੀ ਪੰਜਾਬੀ ਦਾ ਸਿਧਾਂਤਕ ਪਰਿਪੇਖ ਤੋਂ ਅਧਿਐਨ ਕਰਦਾ ਹੈ।

CO2. ਪਰਵਾਸੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਸਾਹਿਤਕ ਰੂਪਾਂ ਕਵਿਤਾ, ਨਾਵਲ ਤੇ ਕਹਾਣੀ ਦੇ ਸਮਾਜਿਕ ਸੱਭਿਆਚਾਰਕ, ਇਤਿਹਾਸਕ, ਥੀਮਕ ਪਾਸਾਰਾਂ ਦਾ ਵਿਸ਼ਲੇਸ਼ਣੀ ਦ੍ਰਿਸ਼ਟੀ ਤੋਂ ਅਧਿਐਨ ਕਰਨਾ ਸਿੱਖਦਾ ਹੈ।

CO 3. ਪਰਵਾਸੀ ਸਾਹਿਤ ਦੇ ਵਿਭਿੰਨ ਪਸਾਰਾਂ ਨਾਲ ਸੰਵਾਦ ਰਚਾਉਂਦਾ ਹੈ।

CO 4. ਪਰਵਾਸੀ ਸਾਹਿਤ ਦੇ ਗਹਿਨ ਅਧਿਐਨ ਦੁਆਰਾ ਖੋਜ ਅਤੇ ਮੁਲਾਂਕਣ ਦੇ ਯੋਗ ਹੁੰਦਾ ਹੈ।

Name of Programme: B.A./B.Sc./B.Com./BCA/B.Com(FS)/B.Sc-IT

Course: Punjabi

Programme Outcome

PO1. ਇਹ ਪ੍ਰੋਗਰਾਮ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਰਸਮੀ ਅਤੇ ਗ਼ੈਰ-ਰਸਮੀ ਪੱਧਰ ਤੇ ਸੂਖ਼ਮਤਾ ਦੇ ਨਾਲ ਭਾਸ਼ਾ ਦੀ ਵਰਤੋਂ ਦੇ ਸਮਰੱਥ

ਬਣਾਉਂਦਾ ਹੈ।

PO-2 ਇਹ ਪ੍ਰੋਗਰਾਮ ਵਿਦਿਆਰਥੀ ਅੰਦਰ ਸਮਾਜਿਕ, ਰਾਜਨੀਤਿਕ, ਧਾਰਮਿਕ, ਆਰਥਿਕ, ਨੈਤਿਕ ਮੁੱਲ-ਵਿਧਾਨ ਦੀ ਸੂਝ ਪੈਦਾ ਕਰਦਾ ਹੈ।

PO-3 ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸਾਹਿਤ, ਸਮਾਜ ਅਤੇ ਭਾਸ਼ਾ ਵਿਗਿਆਨ ਬਾਰੇ ਜਾਣਕਾਰੀ ਪ੍ਰਦਾਨ ਕਰਦਾ ਹੈ ਜਿਸ ਨਾਲ ਉਹ ਇਕ ਸੰਤੁਲਿਤ ਸ਼ਖ਼ਸੀਅਤ ਦੇ ਤੌਰ ਤੇ ਵਿਚਰੇਗਾ।

PO-4 ਇਸ ਨਾਲ ਵਿਦਿਆਰਥੀ ਰੁਜ਼ਗਾਰ ਦੇ ਵਿਭਿੰਨ ਮੌਕਿਆਂ ਤੋਂ ਲਾਭ ਪ੍ਰਾਪਤ ਕਰ ਸਕੇਗਾ।

Programme-BA

Course: ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ (Compulsory Punjabi) Semester-I Learning Outcomes

CO 1. ਵਿਦਿਆਰਥੀ ਅੰਦਰ ਸਾਹਿਤ ਨੂੰ ਪੜ੍ਹਨ ਤੇ ਸਮਝਣ ਦੀ ਰੁਚੀ ਪ੍ਰਬਲ ਹੁੰਦੀ ਹੈ।

CO 2. ਉਸ ਦੀ ਭਾਸ਼ਾਈ ਸਮਰੱਥਾ ਵਿਚ ਵਾਧਾ ਹੁੰਦਾ ਹੈ।

CO 3. ਸਿੱਖਿਆਰਥੀ ਜੀਵਨ ਵਿੱਚ ਕਵਿਤਾ ਦੇ ਮਾਧਿਅਮ ਦੁਆਰਾ ਨੈਤਿਕ ਕਦਰਾਂ-ਕੀਮਤਾਂ ਤੋਂ ਜਾਣੂ ਹੁੰਦਾ ਹੈ ਜੋ ਉੱਚ ਸਮਾਜਿਕ ਪ੍ਰਬੰਧ ਨੂੰ ਸਿਰਜਣ ਵਿੱਚ ਸਹਾਈ ਹੁੰਦੀਆਂ ਹਨ।

CO 4. ਉਸ ਵਿਚ ਸਿਰਜਣਾਤਮਕ ਰੁਚੀਆਂ ਪੈਦਾ ਹੁੰਦੀਆਂ ਹਨ।

CO 5. ਕਵਿਤਾ ਦੀਆਂ ਸਾਹਿਤਕ ਵਿਧਾਵਾਂ ਤੋਂ ਵਾਕਿਫ਼ ਹੁੰਦਾ ਹੈ।

CO 6. ਸੁਹਜਾਤਮਕ ਸ਼ਬਦਾਵਲੀ ਵਿਚ ਵਾਧਾ ਹੁੰਦਾ ਹੈ।

CO 7. ਸੰਸਾਰ ਦੀਆਂ ਮਹਾਨ ਸ਼ਖ਼ਸੀਅਤਾਂ ਦੇ ਪ੍ਰਭਾਵ ਨਾਲ ਵਿਦਿਆਰਥੀ ਦਾ ਸ਼ਖ਼ਸੀ ਵਿਕਾਸ ਹੁੰਦਾ ਹੈ।

CO 8. ਵਿਦਿਆਰਥੀ ਨੂੰ ਸੰਸਾਰ ਪੱਧਰ ਉੱਪਰ ਇਤਿਹਾਸਕ, ਧਾਰਮਿਕ, ਸਮਾਜਿਕ, ਆਰਥਿਕ, ਸੱਭਿਆਚਾਰਕ ਸਮੱਗਰੀ ਇਕੱਤਰ ਹੁੰਦੀ ਹੈ।

CO 9. ਸੰਬੰਧਿਤ ਰਾਜ ਦੇ ਖੇਤਰਾਂ ਦੀ ਸਮੁੱਚੀਆਂ ਭਾਸ਼ਾਈ ਵੰਨਗੀਆਂ ਤੋਂ ਜਾਣੂ ਹੁੰਦਾ ਹੈ ਜਿਸ ਨਾਲ ਉਹ ਪੰਜਾਬ ਦੇ ਕਿਸੇ ਵੀ ਖੇਤਰ ਵਿਚ ਰੁਜ਼ਗਾਰ ਪ੍ਰਾਪਤੀ ਦਾ ਲਾਭ ਲੈ ਸਕਦਾ ਹੈ।

Course: ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ (Compulsory Punjabi) Semester-II Learning Outcomes

CO 1. ਵਿਦਿਆਰਥੀ ਅੰਦਰ ਸਾਹਿਤ ਨੂੰ ਪੜ੍ਹਨ ਤੇ ਸਮਝਣ ਦੀ ਰੁਚੀ ਪ੍ਰਬਲ ਹੁੰਦੀ ਹੈ।

CO 2. ਉਸ ਦੀ ਭਾਸ਼ਾਈ ਸਮਰੱਥਾ ਵਿਚ ਵਾਧਾ ਹੁੰਦਾ ਹੈ।

CO 3. ਸਿੱਖਿਆਰਥੀ ਜੀਵਨ ਵਿੱਚ ਕਵਿਤਾ ਦੇ ਮਾਧਿਅਮ ਦੁਆਰਾ ਨੈਤਿਕ ਕਦਰਾਂ-ਕੀਮਤਾਂ ਤੋਂ ਜਾਣੂ ਹੁੰਦਾ ਹੈ ਜੋ ਉੱਚ ਸਮਾਜਿਕ ਪ੍ਰਬੰਧ ਨੂੰ ਸਿਰਜਣ ਵਿੱਚ ਸਹਾਈ ਹੁੰਦੀਆਂ ਹਨ।

CO 4. ਉਸ ਵਿਚ ਸਿਰਜਣਾਤਮਕ ਰੁਚੀਆਂ ਪੈਦਾ ਹੁੰਦੀਆਂ ਹਨ।

CO 5. ਕਵਿਤਾ ਦੀਆਂ ਸਾਹਿਤਕ ਵਿਧਾਵਾਂ ਤੋਂ ਵਾਕਿਫ਼ ਹੁੰਦਾ ਹੈ।

CO 6. ਸੁਹਜਾਤਮਕ ਸ਼ਬਦਾਵਲੀ ਵਿਚ ਵਾਧਾ ਹੁੰਦਾ ਹੈ।

CO 7. ਸੰਸਾਰ ਦੀਆਂ ਮਹਾਨ ਸ਼ਖ਼ਸੀਅਤਾਂ ਦੇ ਪ੍ਰਭਾਵ ਨਾਲ ਵਿਦਿਆਰਥੀ ਦਾ ਸ਼ਖ਼ਸੀ ਵਿਕਾਸ ਹੁੰਦਾ ਹੈ।

CO 8. ਵਿਦਿਆਰਥੀ ਸੰਸਾਰ ਪੱਧਰ ਉੱਪਰ ਇਤਿਹਾਸਕ, ਧਾਰਮਿਕ, ਸਮਾਜਿਕ, ਆਰਥਿਕ, ਸੱਭਿਆਚਾਰਕ ਸਮੱਗਰੀ ਇਕੱਤਰ ਕਰਦਾ ਹੈ।

CO 9. ਸ਼ਬਦ ਸਿਰਜਣਾ ਤੇ ਸ਼ਬਦ ਭੰਡਾਰ ਵਿੱਚ ਵਾਧਾ ਹੁੰਦਾ ਹੈ।

Course: ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ (Compulsory Punjabi) Semester-III Learning Outcomes-

CO 1. ਵਿਦਿਆਰਥੀ ਅੰਦਰ ਸਾਹਿਤ ਨੂੰ ਪੜ੍ਹਨ ਤੇ ਸਮਝਣ ਦੀ ਰੁਚੀ ਪ੍ਰਬਲ ਹੁੰਦੀ ਹੈ।

CO 2. ਉਸ ਦੀ ਭਾਸ਼ਾਈ ਸਮਰੱਥਾ ਵਿਚ ਵਾਧਾ ਹੁੰਦਾ ਹੈ।

CO 3. ਸਿੱਖਿਆਰਥੀ ਜੀਵਨ ਵਿੱਚ ਵਾਰਤਕ ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਨੈਤਿਕ ਮੁੱਲ ਵਿਧਾਨ ਤੋਂ ਜਾਣੂ ਹੁੰਦਾ ਹੈ ਜੋ ਨਰੋਏ ਸਮਾਜਿਕ ਪ੍ਰਬੰਧ ਨੂੰ ਸਿਰਜਣ ਵਿੱਚ ਸਹਾਈ ਹੁੰਦਾ ਹੈ।

CO 4. ਉਸ ਵਿਚ ਸਿਰਜਣਾਤਮਕ ਰੁਚੀਆਂ ਪੈਦਾ ਹੁੰਦੀਆਂ ਹਨ।

CO 5. ਸੁਹਜਾਤਮਕ ਸ਼ਬਦਾਵਲੀ ਵਿਚ ਵਾਧਾ ਹੁੰਦਾ ਹੈ।

CO 6. ਵਿਦਿਆਰਥੀ ਭਾਰਤ ਦੀ ਸਾਂਸਕ੍ਰਿਤਕ ਤੇ ਸੱਭਿਆਚਾਰਕ ਜੀਵਨ ਦੇ ਸਨਮੁਖ ਹੁੰਦਾ ਹੈ।

CO 7. ਵਿਦਿਆਰਥੀ ਅੰਦਰੂਨੀ ਜਗਤ ਤੇ ਬਾਹਰੀ ਜਗਤ ਦੀਆਂ ਸਮੱਸਿਆਵਾਂ ਨਾਲ ਜੁੜਣ ਤੇ ਸਮਾਧਾਨ ਕਰਨ ਦੇ ਸਮਰੱਥ ਬਣਦਾ ਹੈ।

CO 8. ਵਿਦਿਆਰਥੀ ਅੰਦਰ ਅਭਿਨੈ ਦੇ ਖੇਤਰ ਵਿਚ ਜਾਣ ਦੇ ਮੌਕੇ ਮਿਲਦੇ ਹਨ।

CO 9. ਭਾਸ਼ਾ ਦੀ ਗਹਿਨ ਸੰਰਚਨਾ ਵਿਧੀ ਤੋਂ ਜਾਣੂ ਹੁੰਦਾ ਹੈ।

Course: ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ (Compulsory Punjabi) Semester-IV

Learning Outcomes

CO 1. ਵਿਦਿਆਰਥੀ ਅੰਦਰ ਸਾਹਿਤ ਨੂੰ ਪੜ੍ਹਨ ਤੇ ਸਮਝਣ ਦੀ ਰੁਚੀ ਪ੍ਰਬਲ ਹੁੰਦੀ ਹੈ।

CO 2. ਉਸ ਦੀ ਭਾਸ਼ਾਈ ਸਮਰੱਥਾ ਵਿਚ ਵਾਧਾ ਹੁੰਦਾ ਹੈ।

CO 3. ਸਿੱਖਿਆਰਥੀ ਜੀਵਨ ਵਿੱਚ ਵਾਰਤਕ ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਨੈਤਿਕ ਮੁੱਲ ਵਿਧਾਨ ਤੋਂ ਜਾਣੂ ਹੁੰਦਾ ਹੈ ਜੋ ਨਰੋਏ ਸਮਾਜਿਕ ਪ੍ਰਬੰਧ ਨੂੰ ਸਿਰਜਣ ਵਿੱਚ ਸਹਾਈ ਹੁੰਦਾ ਹੈ।

CO 4. ਉਸ ਵਿਚ ਸਿਰਜਣਾਤਮਕ ਰੁਚੀਆਂ ਪੈਦਾ ਹੁੰਦੀਆਂ ਹਨ।

CO 5. ਸੁਹਜਾਤਮਕ ਸ਼ਬਦਾਵਲੀ ਵਿਚ ਵਾਧਾ ਹੁੰਦਾ ਹੈ।

CO 6. ਵਿਦਿਆਰਥੀ ਭਾਰਤ ਦੀ ਸਾਂਸਕ੍ਰਿਤਕ ਤੇ ਸੱਭਿਆਚਾਰਕ ਜੀਵਨ ਦੇ ਸਨਮੁੱਖ ਹੁੰਦਾ ਹੈ।

CO 7. ਵਿਦਿਆਰਥੀ ਅੰਦਰੂਨੀ ਜਗਤ ਤੇ ਬਾਹਰੀ ਜਗਤ ਦੀਆਂ ਸਮੱਸਿਆਵਾਂ ਨਾਲ ਜੁੜਣ ਤੇ ਸਮਾਧਾਨ ਕਰਨ ਦੇ ਯੋਗ ਬਣਦਾ ਹੈ।

CO 8. ਵਿਦਿਆਰਥੀ ਅੰਦਰ ਅਭਿਨੈ ਦੇ ਖੇਤਰ ਵਿਚ ਜਾਣ ਦੇ ਮੌਕੇ ਮਿਲਦੇ ਹਨ।

CO 9. ਇਸ ਵਿਚ ਵਿਦਿਆਰਥੀ ਇਸ਼ਤਿਹਾਰ ਦਾ ਖਰੜਾ ਤਿਆਰ ਕਰਨਾ ਸਿੱਖਦਾ ਹੈ, ਇਸ ਦੀ ਵਰਤੋਂ ਕਿਵੇਂ ਤੇ ਕਿੱਥੇ ਕਰਨੀ ਹੈ ਤੋਂ ਜਾਣੂ ਹੁੰਦਾ ਹੈ।

CO 10. ਵਿੱਦਿਅਕ, ਸਮਾਜਿਕ, ਆਰਥਿਕ, ਰਾਜਨੀਤਿਕ, ਧਾਰਮਿਕ ਅਤੇ ਚਲੰਤ ਮਸਲਿਆਂ ਨਾਲ ਸੰਬੰਧਿਤ ਵਿਸ਼ਿਆਂ ਤੇ ਸਮੱਸਿਆਵਾਂ ਪ੍ਰਤੀ ਜਾਗਰੂਕ ਹੁੰਦਾ ਹੈ।

CO 11. ਭਾਸ਼ਾ ਦੀ ਗਹਿਨ ਸੰਰਚਨਾ ਵਿਧੀ ਤੋਂ ਜਾਣੂ ਹੋਣਾ ਤੇ ਭਾਸ਼ਾਈ ਸਮਰੱਥਾ ਵਿਚ ਵਾਧਾ ਹੁੰਦਾ ਹੈ।

Course: ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ (Compulsory Punjabi) Semester-V Learning Outcomes

CO 1. ਵਿਦਿਆਰਥੀ ਗਲਪ ਦੀ ਵਿਧਾਵਾਂ ਕਹਾਣੀ ਤੇ ਨਾਵਲ ਦੇ ਮਾਧਿਅਮ ਰਾਹੀਂ ਸਮਾਜਿਕ ਸਮੱਸਿਆਵਾਂ ਲਿੰਗ, ਜਾਤ-ਪਾਤ, ਨਸਲੀ, ਵਿਤਕਰਿਆ, ਅਮੀਰੀ-ਗਰੀਬੀ, ਖੁਸ਼ੀ-ਗਮੀ, ਅੰਦਰੂਨੀ ਤੇ ਬਾਹਰੀ ਜਗਤ ਨਾਲ ਨਿਜੱਠਣ ਦੀ ਪ੍ਰੇਰਨਾ ਲੈਂਦਾ ਹੈ।

CO 2. ਉਸ ਦੀ ਭਾਸ਼ਾਈ ਸਮਰੱਥਾ ਵਿਚ ਵਾਧਾ ਹੁੰਦਾ ਹੈ।

CO 3. ਸਿੱਖਿਆਰਥੀ ਜੀਵਨ ਵਿੱਚ ਗਲਪ ਦੇ ਅਧਿਐਨ ਦੁਆਰਾ ਨੈਤਿਕ ਮੁੱਲ-ਵਿਧਾਨ ਤੋਂ ਜਾਣੂ ਹੁੰਦਾ ਹੈ ਜੋ ਨਰੋਏ ਸਮਾਜਿਕ ਪ੍ਰਬੰਧ ਨੂੰ ਸਿਰਜਣ ਵਿੱਚ ਸਹਾਈ ਹੁੰਦਾ ਹੈ।

CO 4. ਉਸ ਵਿਚ ਸਿਰਜਣਾਤਮਕ ਰੁਚੀਆਂ ਪੈਦਾ ਹੁੰਦੀਆਂ ਹਨ। ਉਸ ਦੀ ਸੁਹਜਾਤਮਕ ਸ਼ਬਦਾਵਲੀ ਵਿਚ ਵਾਧਾ ਹੁੰਦਾ ਹੈ।

CO 5. ਅਨੁਵਾਦ ਕਰਨ ਦੀ ਪ੍ਰਵਿਰਤੀ ਪੈਦਾ ਹੁੰਦੀ ਹੈ।

CO 6. ਭਾਸ਼ਾ ਦੇ ਅੱਖਰ ਕ੍ਰਮ ਅਤੇ ਵਿਆਕਰਣਕ ਪੱਧਰ ਦਾ ਗਹਿਨ ਵਿਕਾਸ ਹੁੰਦਾ ਹੈ।

Course: ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ (Compulsory Punjabi) Semester-VI

Learning Outcomes

CO 1. ਵਿਦਿਆਰਥੀ ਸੂਫੀ ਕਾਵਿ, ਗੁਰਮਤਿ ਕਾਵਿ, ਕਿੱਸਾ ਕਾਵਿ-ਧਾਰਾ ਅਤੇ ਜੰਗਨਾਮਾ ਦੇ ਅਧਿਐਨ ਰਾਹੀਂ ਮੱਧ-ਕਾਲ ਦੇ ਸਰਬਾਂਗੀ ਕਵੀਆਂ ਤੇ ਵਿਸ਼ਿਆਂ ਤੋਂ ਵਾਕਿਫ਼ ਹੁੰਦੇ ਹਨ ਅਤੇ ਉਨ੍ਹਾਂ ਵਿਚ ਸਰਬਸਾਂਝੀਵਾਲਤਾ ਦੇ ਭਾਵ ਪੈਦਾ ਹੁੰਦੇ ਹਨ।

CO 2. ਵਿਦਿਆਰਥੀਆਂ ਅੰਦਰ ਵੱਖ-ਵੱਖ ਧਰਤੀਆਂ ਦੇ ਸੱਭਿਆਚਾਰ, ਸਮਾਜਿਕ ਵਿਵਸਥਾ, ਰਾਜਨੀਤਿਕ ਤੇ ਆਰਥਿਕ ਗਤੀਵਿਧੀਆਂ ਬਾਰੇ ਚੇਤਨਾ ਪੈਦਾ ਹੁੰਦੀ ਹੈ।

CO 3. ਵਿਗਿਆਨ, ਤਕਨਾਲੋਜੀ ਤੇ ਚਲੰਤ ਮਸਲਿਆਂ ਸੰਬੰਧੀ ਵਿਦਿਆਰਥੀ ਆਪਣੇ ਵਿਚਾਰ ਪ੍ਰਗਟਾਉਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ।

CO 4. ਕਵਿਤਾ, ਨਾਵਲ, ਨਾਟਕ ਤੇ ਕਹਾਣੀ ਦੀ ਅੰਦਰੂਨੀ ਬਣਤਰ ਤੋਂ ਜਾਣੂ ਹੁੰਦੇ ਹਨ। ਛੋ 5. ਵਿਦਿਆਰਥੀ ਭਾਸ਼ਾ ਦੇ ਵਿਆਕਰਣਕ ਵਰਤਾਰੇ ਨੂੰ ਸਮਝਣ ਦੇ ਯੋਗ ਬਣਦੇ ਹਨ।

Course: ਪੰਜਾਬੀ ਪ੍ਰਕਾਰਜੀ (Functional Punjabi) Semester-I

Learning Outcomes-

- CO 1. ਵਿਦਿਆਰਥੀ ਧੁਨੀ ਉਚਾਰਨ ਦੀ ਵਿਗਿਆਨਕ ਦ੍ਰਿਸ਼ਟੀ ਸਮਝਣ ਦੇ ਸਮਰੱਥ ਹੁੰਦੇ ਹਨ।
- CO 2. ਗੁਰਮੁਖੀ ਲਿਪੀ ਦੇ ਸਵਰ ਤੇ ਵਿਅੰਜਨ ਪ੍ਰਬੰਧ ਤੋਂ ਬਾਰੀਕੀ ਨਾਲ ਸਮਝਦੇ ਹਨ।
- CO 3. ਉਹ ਅੰਤਰ-ਰਾਸ਼ਟਰੀ ਧੁਨੀ ਲਿਪੀ ਦੇ ਸਹਾਇਤਾ ਨਾਲ ਕਿਸੇ ਵੀ ਭਾਸ਼ਾ ਦੀਆਂ ਧੁਨੀਆਂ ਨੂੰ ਸੁਣ ਕੇ ਆਈ.ਪੀ.ਏ ਵਿਚ ਬਦਲ ਸਕਣ ਦੀ ਪ੍ਰਬੰਧਨਤਾ ਹਾਸਿਲ ਕਰਦਾ ਹੈ।
- CO 4. ਕਿਸੇ ਭਾਸ਼ਾ ਨੂੰ ਲਿਖਣ ਲਈ ਸੰਪੂਰਨ ਵਿਧੀ ਤੋਂ ਵਾਕਿਫ਼ ਹੁੰਦੇ ਹਨ।
- CO 5. ਕੰਪਿਊਟਰ ਸੰਬੰਧੀ ਬੁਨਿਆਦੀ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ।
- CO 6. ਇੰਟਰਨੈੱਟ ਤੇ ਈ-ਮੇਲ ਦੀ ਵਿਹਾਰਕ ਵਰਤੋਂ ਜਾਣੂ ਹੁੰਦੇ ਹਨ।
- CO 7. ਵਿਦਿਆਰਥੀ ਭਾਸ਼ਾ ਦੀ ਸੰਰਚਨਾ ਦੇ ਸੰਕਲਪ ਅਤੇ ਲਿਪੀ ਦਾ ਅਧਿਐਨ ਕਰਕੇ ਸੰਪਾਦਨ ਦੇ ਖੇਤਰ ਵਿਚ ਜਾ ਸਕਦਾ ਹੈ। ਉਸ ਦੀ ਭਾਸ਼ਾਈ ਸਮਰੱਥਾ ਵਿਚ ਵਾਧਾ ਹੁੰਦਾ ਹੈ।

Course: ਪੰਜਾਬੀ ਪ੍ਰਕਾਰਜੀ (Functional Punjabi) Semester-II

Learning Outcomes

- CO 1. ਵਿਦਿਆਰਥੀ ਸੰਚਾਰ, ਜਨਸੰਚਾਰ ਤੇ ਪ੍ਰਸਾਰਨ ਦੇ ਮੁੱਢਲੇ ਨਿਯਮਾਂ ਤੋਂ ਜਾਣੂ ਹੁੰਦਾ ਹੈ।
- CO 2. ਸਿੱਖਿਆਰਥੀ ਪ੍ਰਿੰਟ ਮੀਡੀਆ ਤੇ ਇਲੈਕਟ੍ਰੋਨਿਕ ਮੀਡੀਆ ਦੀ ਸਿਧਾਂਤਕ ਤੇ ਵਿਹਾਰਕ ਤੌਰ ਤੇ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦਾ ਹੈ ਜਿਸ ਨਾਲ ਸੰਬੰਧਿਤ ਅਦਾਰਿਆਂ ਵਿੱਚ ਰੁਜ਼ਗਾਰ ਦੇ ਮੌਕੇ ਤਲਾਸ਼ ਕਰ ਸਕਦਾ ਹੈ।
- CO 3. ਵਿਦਿਆਰਥੀ ਪ੍ਰਸਾਰਨ, ਸੰਚਾਰ ਤੇ ਸਮਾਜ ਵਿਚਲੇ ਸੰਬੰਧ ਦੀ ਵਰਤੋਂ ਵਿਉਂਤ ਬਾਰੇ ਮੁਹਾਰਤ ਸਿੱਖ ਲੈਂਦਾ ਹੈ।
- CO 4. ਵਿਦਿਆਰਥੀ ਜੀਵਨ ਇਸ ਵਿਸ਼ੇ ਨੂੰ ਪੜ੍ਹ ਕੇ ਦਫ਼ਤਰੀ ਕੰਮਾਂ ਵਿਚ ਪ੍ਰਬੰਧਨਤਾ ਹਾਸਿਲ ਕਰਦਾ ਹੈ।
- CO 5. ਇਸ ਵਿਚ ਵਿਦਿਆਰਥੀ ਇਸ਼ਤਿਹਾਰ ਦਾ ਖਰੜਾ ਤਿਆਰ ਕਰਨਾ ਸਿੱਖਦਾ ਹੈ।
- CO 6. ਇਸ ਦੀ ਵਰਤੋਂ ਕਿਵੇਂ ਤੇ ਕਿੱਥੇ ਕਰਨੀ ਹੈ ਤੋਂ ਜਾਣੂ ਹੁੰਦਾ ਹੈ।
- CO 7. ਸਮਾਚਾਰ ਕਿਸਮਾਂ ਤੇ ਰਸਮੀ ਤੌਰ ਤੇ ਸਮਾਚਾਰ ਲਿਖਣ ਦੀ ਵਿਧੀ ਵਿਚ ਪ੍ਰਬੰਧਨ ਹੁੰਦਾ ਹੈ।
- CO 8. ਵਿਦਿਆਰਥੀ ਇਸ ਉਪਰੰਤ ਵੱਖ-ਵੱਖ ਸਮਾਚਾਰ ਪੱਤਰਾਂ ਅਤੇ ਨਿਊਜ਼ ਚੈਨਲਾਂ ਵਿਚ ਰੁਜ਼ਗਾਰ ਪ੍ਰਾਪਤ ਕਰ ਸਕਦਾ ਹੈ।

Course: ਪੰਜਾਬੀ ਪ੍ਰਕਾਰਜੀ (Functional Punjabi) Semester-III

Learning Outcomes

- CO 1. ਵਿਦਿਆਰਥੀ ਭਾਸ਼ਾ ਦੀ ਸਮੁੱਚੀ ਬਣਤਰ ਅਤੇ ਲਿਖਣ ਸ਼ੈਲੀਆਂ ਦੀ ਵਿਹਾਰਕ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਕੇ ਰੁਜ਼ਗਾਰਮੁੱਖ ਹੁੰਦੇ ਹਨ।
- CO 2. ਉਪ-ਭਾਸ਼ਾਵਾਂ ਦੀ ਵਰਤੋਂ ਤੇ ਵਰਤਾਰੇ ਤੋਂ ਜਾਣੂ ਹੁੰਦੇ ਹਨ। ਇਸ ਮੁਹਾਰਤ ਨਾਲ ਉਹ ਕਿਸ ਵੀ ਖੇਤਰ ਵਿਚ ਕੰਮ ਕਰਨ ਦੇ ਕਾਬਿਲ ਹੋ ਜਾਂਦੇ ਹਨ।
- CO 3. ਵਿਦਿਆਰਥੀ ਇਸ ਉਪਰੰਤ ਵੱਖ-ਵੱਖ ਸਮਾਚਾਰ ਪੱਤਰਾਂ ਵਿਚ ਸੰਪਾਦਕ ਅਤੇ ਨਿਊਜ਼ ਚੈਨਲਾਂ ਵਿਚ ਸੰਪਾਦਕ ਜਾਂ ਨਿਊਜ਼ ਐਂਕਰ ਦੇ ਤੌਰ ਤੇ ਰੁਜ਼ਗਾਰ ਪ੍ਰਾਪਤ ਕਰ ਸਕਦਾ ਹੈ।

Course: ਪੰਜਾਬੀ ਪ੍ਰਕਾਰਜੀ (Functional Punjabi) Semester-IV

Learning Outcomes

- CO 1. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀਆਂ ਰਸਮੀ ਲਿਖਣ ਸ਼ੈਲੀਆਂ ਦੀ ਵਿਹਾਰਕ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਕੇ ਨਿੱਜੀ, ਸਰਕਾਰੀ ਤੇ ਗੈਰ-ਸਰਕਾਰੀ ਅਦਾਰਿਆਂ ਵਿਚ ਦਸਤਾਵੇਜ਼ਾਂ ਨੂੰ ਤਿਆਰ ਕਰ ਸਕਦਾ ਹੈ।
- CO 2. ਇਸ ਨਾਲ ਸਿੱਖਿਆਰਥੀ ਹਰ ਪ੍ਰਕਾਰ ਦੇ ਕਾਗਜ਼ੀ ਕਾਰਗੁਜ਼ਾਰੀ ਕਰਨ ਦੇ ਸਮਰੱਥ ਹੁੰਦਾ ਹੈ।
- CO 3. ਵਿਦਿਆਰਥੀ ਇਸ ਉਪਰੰਤ ਵੱਖ-ਵੱਖ ਸਮਾਚਾਰ ਪੱਤਰਾਂ ਵਿਚ ਸੰਪਾਦਕ ਅਤੇ ਨਿਊਜ਼ ਚੈਨਲਾਂ ਵਿਚ ਸੰਪਾਦਕ ਜਾਂ ਨਿਊਜ਼ ਐਂਕਰ, ਲੇਖਕ ਆਦਿ ਦੇ ਤੌਰ ਤੇ ਰੁਜ਼ਗਾਰ ਪ੍ਰਾਪਤ ਕਰ ਸਕਦਾ ਹੈ।

Course: ਪੰਜਾਬੀ ਪ੍ਰਕਾਰਜੀ (Functional Punjabi) Semester-V

Learning Outcomes-

- CO 1. ਵਿਦਿਆਰਥੀ ਭਾਸ਼ਾ ਦੀ ਸੰਰਚਨਾ ਦੇ ਸੰਕਲਪ ਅਤੇ ਔਰਥੋਗਰਾਫ਼ੀ ਦਾ ਅਧਿਐਨ ਕਰਕੇ ਸੰਪਾਦਨ ਦੇ ਖੇਤਰ ਵਿਚ ਜਾ ਸਕਦਾ ਹੈ।
- CO 2. ਉਸ ਦੀ ਭਾਸ਼ਾਈ ਸਮਰੱਥਾ ਵਿਚ ਵਾਧਾ ਹੁੰਦਾ ਹੈ।

- CO 3. ਸੂਚਨਾ ਤਕਨਾਲੋਜੀ ਦੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਕੇ ਵਿਦਿਆਰਥੀ ਸੂਚਨਾ ਪ੍ਰਣਾਲੀ ਦੇ ਖੇਤਰ ਵਿਚ ਨੌਕਰੀ ਪ੍ਰਾਪਤ ਕਰਨ ਦੇ ਯੋਗ ਬਣਦਾ ਹੈ।
- CO 4. ਉਹ ਅੰਤਰ-ਰਾਸ਼ਟਰੀ ਧੁਨੀ ਲਿਪੀ ਦੇ ਸਹਾਇਤਾ ਨਾਲ ਕਿਸੇ ਵੀ ਭਾਸ਼ਾ ਦੀਆਂ ਧੁਨੀਆਂ ਨੂੰ ਸੁਣ ਕੇ ਆਈ.ਪੀ.ਏ ਵਿਚ ਬਦਲ ਸਕਣ ਦੀ ਪ੍ਰਬੰਧਨਤਾ ਹਾਸਿਲ ਕਰਦਾ ਹੈ।
- CO 5. ਸੰਬੰਧਿਤ ਭਾਸ਼ਾ ਦੀਆਂ ਵੈੱਬਸਾਈਟ ਸੰਬੰਧੀ ਜਾਣੂ ਹੁੰਦਾ ਹੈ।

Course: ਪੰਜਾਬੀ ਪ੍ਰਕਾਰਜੀ (Functional Punjabi) Semester-VI

Learning Outcomes

- CO 1. ਵਿਦਿਆਰਥੀ ਕੰਪਿਊਟਰ ਵਿਚ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀਆਂ ਵਰਤੋਂ ਜਾਂਦੇ ਫੋਂਟਸ ਦੀ ਪ੍ਰਯੋਗੀ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦਾ ਹੈ। ਸੰਚਨਾ ਦੇ ਸੰਕਲਪ ਅਤੇ ਔਰਥੋਗਰਾਫੀ ਦਾ ਅਧਿਐਨ ਕਰਕੇ ਸੰਪਾਦਨ ਦੇ ਖੇਤਰ ਵਿਚ ਜਾ ਸਕਦਾ ਹੈ।
- CO 2. ਉਸ ਦੀ ਭਾਸ਼ਾਈ ਸਮਰੱਥਾ ਵਿਚ ਵਾਧਾ ਹੁੰਦਾ ਹੈ।
- CO 3. ਸੂਚਨਾ ਤਕਨਾਲੋਜੀ ਦੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਕੇ ਵਿਦਿਆਰਥੀ ਸੂਚਨਾ ਪ੍ਰਣਾਲੀ ਦੇ ਖੇਤਰ ਵਿਚ ਨੌਕਰੀ ਪ੍ਰਾਪਤ ਕਰਨ ਦੇ ਯੋਗ ਬਣਦਾ ਹੈ।
- CO 4. ਉਹ ਅੰਤਰ-ਰਾਸ਼ਟਰੀ ਧੁਨੀ ਲਿਪੀ ਦੇ ਸਹਾਇਤਾ ਨਾਲ ਕਿਸੇ ਵੀ ਭਾਸ਼ਾ ਦੀਆਂ ਧੁਨੀਆਂ ਨੂੰ ਸੁਣ ਕੇ ਆਈ.ਪੀ.ਏ ਵਿਚ ਬਦਲ ਸਕਣ ਦੀ ਪ੍ਰਬੰਧਨਤਾ ਹਾਸਿਲ ਕਰਦਾ ਹੈ।
- CO 5. ਸੰਬੰਧਿਤ ਭਾਸ਼ਾ ਦੀਆਂ ਵੈੱਬਸਾਈਟ ਬਣਾਉਣ ਦਾ ਆਪਣਾ ਰੁਜ਼ਗਾਰ ਖੋਲ੍ਹ ਸਕਦਾ ਹੈ।

Course: ਚੋਣਵੀਂ ਪੰਜਾਬੀ (Punjabi Elective) Semester-I

Learning Outcomes-

- CO 1. ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਦੇ ਕਈ ਰੂਪਾਂ ਤੋਂ ਵਾਕਿਫ ਹੁੰਦੇ ਹਨ।
- CO 2. ਵਿਦਿਆਰਥੀ ਭਾਸ਼ਾ ਦੇ ਸ਼ੁੱਧ ਉਚਾਰਣ ਨੂੰ ਸਮਝਦੇ ਹਨ ਅਤੇ ਆਪਣੇ ਬੋਲਚਾਲ ਦੌਰਾਨ ਲਾਗੂ ਕਰਦੇ ਹਨ।
- CO 3. ਵਿਦਿਆਰਥੀ ਕਾਵਿ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਭਾਰਤੀ ਸੰਸਕ੍ਰਿਤੀ ਅਤੇ ਕਦਰਾਂ ਕੀਮਤਾਂ ਨੂੰ ਗ੍ਰਹਿਣ ਕਰਦੇ ਹਨ।
- CO 4. ਵਿਦਿਆਰਥੀ ਨਾਵਲ ਦੇ ਜ਼ਰੀਏ ਸਮਾਜਿਕ ਦਰਪੇਸ਼ ਮੁਸ਼ਕਿਲਾਂ ਨੂੰ ਸਮਝਦੇ ਅਤੇ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।
- CO 5. ਵਿਦਿਆਰਥੀ ਧਰਮ ਤੇ ਵਿਗਿਆਨ ਦੇ ਆਪਸੀ ਸੰਬੰਧ ਨੂੰ ਗਹਿਨਤਾ ਸਹਿਤ ਸਮਝਦੇ ਹਨ।
- CO 6. ਵਿਦਿਆਰਥੀ ਚੌਗਿਰਦੇ ਦੀਆਂ ਸਮੱਸਿਆਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਕਵਿਤਾਵਾਂ ਲਈ ਸਿਰਜਣਸ਼ੀਲ ਹੁੰਦੇ ਹਨ।
- CO 7. ਪੰਜਾਬੀ ਅਰਥ ਪ੍ਰਬੰਧ ਤੋਂ ਵਾਕਿਫ ਹੁੰਦੇ ਹਨ।

Course: ਚੋਣਵੀਂ ਪੰਜਾਬੀ (Punjabi Elective) Semester-II

Learning Outcomes-

- CO 1. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਬਾਰੇ ਵਿਸਥਾਰਿਤ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ।
- CO 2. ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਸਮਾਜਿਕ, ਆਰਥਿਕ ਅਤੇ ਰਾਜਨੀਤਿਕ ਸਮੱਸਿਆਵਾਂ ਦਾ ਮੁਲਾਂਕਣ ਕਰਨ ਦੇ ਯੋਗ ਬਣਦੇ ਹਨ।
- CO 3. ਵਿਦਿਆਰਥੀ ਕੋਸ਼ਕਾਰੀ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਕੋਸ਼ ਦੇ ਨਿਯਮਾਂ ਨੂੰ ਸਮਝਦੇ ਹਨ।
- CO 4. ਵਿਦਿਆਰਥੀ ਕਹਾਣੀ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਸਮਾਜਿਕ ਦਰਪੇਸ਼ ਮੁਸ਼ਕਿਲਾਂ ਨੂੰ ਸਮਝਦੇ ਅਤੇ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

Course: ਚੋਣਵੀਂ ਪੰਜਾਬੀ (Punjabi Elective) Semester-III

Learning Outcomes-

- CO 1. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ ਅਤੇ ਰੂਪ ਬਾਰੇ ਜਾਣਕਾਰੀ ਰੱਖਦੇ ਹਨ।
- CO 2. ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਸਮਾਜਿਕ, ਆਰਥਿਕ ਅਤੇ ਰਾਜਨੀਤਿਕ ਸਮੱਸਿਆਵਾਂ ਦਾ ਹੱਲ ਕੱਢਦੇ ਹਨ।
- CO 3. ਨਾਥ ਸਾਹਿਤ, ਗੁਰਬਾਣੀ ਦੇ ਜ਼ਰੀਏ ਨੈਤਿਕ ਕਦਰਾਂ ਕੀਮਤਾਂ ਦੇ ਧਾਰਨੀ ਬਣਦੇ ਹਨ।
- CO 4. ਵਿਦਿਆਰਥੀ ਕਹਾਣੀ ਸਾਹਿਤ ਦੇ ਮਾਧਿਅਮ ਰਾਹੀਂ ਸਮਾਜਿਕ ਦਰਪੇਸ਼ ਮੁਸ਼ਕਿਲਾਂ ਨੂੰ ਸਮਝਦੇ ਅਤੇ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।
- CO 5. ਸਾਹਿਤ ਦੇ ਮਾਧਿਅਮ ਨਾਲ ਵਿਦਿਆਰਥੀ ਆਲੇ ਦੁਆਲੇ ਦੀਆਂ ਘਟਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਕਵਿਤਾਵਾਂ ਅਤੇ ਕਹਾਣੀਆਂ ਦੀ ਰਚਨਾ ਕਰਦੇ ਹਨ।

Course: ਚੋਣਵੀਂ ਪੰਜਾਬੀ (Punjabi Elective) Semester-IV

Learning Outcomes

- CO 1. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਸਹਿਤਕ ਰੂਪਾਂ ਦੇ ਇਤਿਹਾਸ, ਨਿਕਾਸ ਤੇ ਵਿਕਾਸ ਬਾਰੇ ਅਤੇ ਸਾਹਿਤ ਦੇ ਵਿਭਿੰਨ ਰੂਪਾਂ ਦੀਆਂ ਪ੍ਰਵਿਰਤੀਆਂ ਤੇ ਝੁਕਾਵਾਂ ਬਾਰੇ ਵਿਸਥਾਰ ਪੂਰਵਕ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ।
- CO 2. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸਭਿਆਚਾਰ ਨਾਲ ਸੰਬੰਧਿਤ ਨਿਬੰਧਾਂ ਦਾ ਅਧਿਐਨ ਕਰਕੇ ਸਭਿਆਚਾਰ ਵਰਗੇ ਵਿਸ਼ਾਲ ਸੰਕਲਪ ਨੂੰ ਸਮਝਣਯੋਗ ਹੁੰਦੇ ਹਨ।
- CO 3. ਵਿਦਿਆਰਥੀ ਗੁਰਮੁਖੀ ਲਿਪੀ ਤੇ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਬਾਰੇ ਵਿਸਥਾਰ ਸਹਿਤ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ।
- CO 4. ਸ਼ਬਦਾਂ ਦੀ ਸੁਧਾਈ ਤੇ ਵਿਸ਼ਰਾਮ ਚਿੰਨ੍ਹ ਸੰਬੰਧੀ ਗਿਆਨ ਪ੍ਰਾਪਤ ਕਰਕੇ ਵਿਦਿਆਰਥੀ ਅੰਦਰ ਭਾਸ਼ਾਈ ਲਿਖਤ ਕਰਨ ਵੇਲੇ ਤਰੁੱਟੀਆਂ ਦੀ ਗੁੰਜਾਇਸ਼ ਘੱਟ ਜਾਂਦੀ ਹੈ।

Course: ਚੋਣਵੀਂ ਪੰਜਾਬੀ (Punjabi Elective) Semester-V

Learning Outcomes

- CO 1. ਵਿਦਿਆਰਥੀ ਨਾਥ-ਕਾਵਿ, ਗੁਰਮਤਿ-ਕਾਵਿ, ਸੂਫੀ-ਕਾਵਿ, ਵਾਰ-ਕਾਵਿ ਅਤੇ ਕਿੱਸਾ-ਕਾਵਿ ਬਾਰੇ ਮੁੱਲਵਾਨ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ।
- CO 2. ਵਿਦਿਆਰਥੀ ਅਜੋਕੀ ਪੀੜ੍ਹੀ ਦੇ ਪਰਵਾਸ ਪ੍ਰਤੀ ਵੱਧ ਰਹੇ ਰੁਝਾਨ ਨੂੰ ਸਮਝਦੇ ਹਨ ਅਤੇ ਵਿਚਾਰ ਵਟਾਂਦਰਾ ਕਰਦੇ ਹਨ।
- CO 3. ਵਾਰਤਕ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਭਾਰਤੀ ਸੰਸਕ੍ਰਿਤੀ ਅਤੇ ਸੁਚੱਜੇ ਕੀਮਤ ਪ੍ਰਬੰਧ ਨੂੰ ਗ੍ਰਹਿਣ ਕਰਦੇ ਹਨ।
- CO 4. ਨਾਟਕ ਦੇ ਮਾਧਿਅਮ ਰਾਹੀਂ ਪਰਵਾਸ ਦੀਆਂ ਦਰਪੇਸ਼ ਮੁਸ਼ਕਿਲਾਂ ਅਤੇ ਸੰਭਾਵਨਾਵਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਸਹੀ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।
- CO 5. ਨਾਟਕ ਨੂੰ ਪੜ੍ਹ ਕੇ ਸਮਾਜ ਵਿਚ ਔਰਤ ਦੀ ਦਸ਼ਾ ਦੀ ਸਹੀ ਤਸਵੀਰ ਦੇਖਦੇ ਹਨ ਅਤੇ ਉਸ ਪ੍ਰਤੀ ਖੋਜ ਪੱਤਰ ਲਿਖਣ ਲਈ ਉਤਸ਼ਾਹਿਤ ਹੁੰਦੇ ਹਨ।

Course: ਚੋਣਵੀਂ ਪੰਜਾਬੀ (Punjabi Elective) Semester-VI

Learning Outcomes-

- CO 1. ਵਿਦਿਆਰਥੀ ਮੱਧਕਾਲੀ ਸਾਹਿਤ ਬਾਰੇ ਮੁੱਲਵਾਨਦੇ ਇਤਿਹਾਸ ਜਾਣਕਾਰੀ ਰੱਖਦੇ ਹਨ।
- CO 2. ਪੰਜਾਬੀ ਸਾਹਿਤ 9ਵੀਂ ਸਦੀ ਤੋਂ 16ਵੀਂ ਸਦੀਦੇ ਇਤਿਹਾਸ ਬਾਰੇ ਗਿਆਨ ਹਾਸਿਲ ਹਨ।
- CO 3. ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਦੇ ਜ਼ਰੀਏ ਆਲੋਚਨਾਤਮਕ ਨਜ਼ਰੀਆ ਅਪਣਾਉਂਦੇ ਹਨ ਅਤੇ ਆਪਣੀ ਜ਼ਿੰਦਗੀ ਤੇ ਲਾਗੂ ਕਰਦੇ ਹਨ।
- CO 4. ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਦੇ ਮੂਲ ਸੰਕਲਪਾਂ ਨੂੰ ਸਮਝਦੇ ਹੋਏ ਸਾਹਿਤ ਸਿਰਜਣਾ ਲਈ ਪ੍ਰੇਰਿਤ ਹੁੰਦੇ ਹਨ।

Course: ਮੁੱਢਲੀ ਪੰਜਾਬੀ (Punjabi Basic) Semester-I

Learning Outcomes

- CO 1. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
- CO 2. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨਿਯਮਾਂ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾਂ ਸਮਝਦੇ ਹਨ।
- CO 3. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨਿਯਮਾਂ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।
- CO 4. ਵਿਦਿਆਰਥੀ ਸ਼ਬਦ ਜੋੜਾਂ, ਪੈਂਤੀ ਅੱਖਰੀ ਅਤੇ ਮੁਹਾਰਨੀ ਆਦਿ ਦਾ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

Course: ਮੁੱਢਲੀ ਪੰਜਾਬੀ (Punjabi Basic) Semester-II

Learning Outcomes

- CO 1. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
- CO 2. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨਿਯਮਾਂ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾਂ ਸਮਝਦੇ ਹਨ।
- CO 3. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨਿਯਮਾਂ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।

CO 4. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬ ਦੀਆਂ ਰੁੱਤਾਂ, ਦੇਸੀ ਮਹੀਨਿਆਂ, ਸਾਕੇਦਾਰੀ ਆਦਿ ਦਾ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

Course: ਮੁੱਢਲੀ ਪੰਜਾਬੀ (Punjabi Basic) Semester-III

Learning Outcomes

- CO 1. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
- CO 2. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੀਆਂ ਲੋਕ ਸਿਆਣਪਾਂ ਨੂੰ ਸਮਝਦੇ ਹਨ।
- CO 3. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਵਿਆਕਰਣ ਦੇ ਨਿਯਮਾਂ ਨੂੰ ਲਿਖਤ ਪੱਧਰ ਤੇ ਲਾਗੂ ਕਰਦੇ ਹਨ।
- CO 4. ਵਿਦਿਆਰਥੀ ਚਿੱਠੀ ਪੱਤਰ ਦੇ ਨਿਯਮਾਂ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।
- CO 5. ਵਿਦਿਆਰਥੀ ਪੈਰ੍ਹਾ-ਰਚਨਾ ਰਾਹੀਂ ਪੰਜਾਬ ਦੀਆਂ ਸਮਾਜਿਕ ਗਤੀਵਿਧੀਆਂ ਦਾ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

Course: ਮੁੱਢਲੀ ਪੰਜਾਬੀ (Punjabi Basic) Semester-IV

Learning Outcomes-

- CO 1. ਵਿਦਿਆਰਥੀ ਅੰਦਰ ਪੰਜਾਬੀ ਕਵਿਤਾ ਨੂੰ ਪੜ੍ਹਨ, ਸਮਝਣ ਤੇ ਉਸਦੇ ਦੂਜੇ ਲੋਕ ਅਰਥਾਂ ਨੂੰ ਸਮਝਣ ਦੀ ਰੁਚੀ ਪ੍ਰਫੁਲਿਤ ਹੁੰਦੀ ਹੈ।
- CO 2. ਉਸ ਅੰਦਰ ਪੰਜਾਬੀ ਕਵਿਤਾ ਨੂੰ ਪੜ੍ਹ ਕੇ ਸਮਾਜਿਕ ਸੂਝ ਪੈਦਾ ਹੁੰਦੀ ਹੈ।
- CO 3. ਉਸ ਅੰਦਰ ਸ਼ੁੱਧ ਭਾਸ਼ਾ ਲਿਖਣ ਦੀ ਯੋਗਤਾ ਪੈਦਾ ਹੁੰਦੀ ਹੈ।

Course: ਮੁੱਢਲੀ ਪੰਜਾਬੀ (Punjabi Basic) Semester-V

Learning Outcomes

- CO 1. ਵਿਦਿਆਰਥੀ ਸਾਹਿਤ ਅਤੇ ਲੋਕ-ਸਾਹਿਤ ਕਵਿਤਾ ਤੇ ਬਿਰਤਾਂਤ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਹਾਸਿਲ ਕਰਦੇ ਹਨ।
- CO 2. ਉਸ ਅੰਦਰ ਲੋਕ-ਕਾਵਿ ਵੰਨਗੀਆਂ ਪੜ੍ਹ ਕੇ ਸਭਿਆਚਾਰ ਸੰਬੰਧੀ ਚੇਤਨਾ ਪ੍ਰਬਲ ਹੁੰਦੀ ਹੈ।
- CO 3. ਉਹ ਲੋਕ-ਨਾਚਾਂ ਦੀਆਂ ਵੰਨਗੀਆਂ ਨੂੰ ਸਮਝਣਯੋਗ ਹੁੰਦਾ ਹੈ।
- CO 4. ਲੋਕ-ਨਾਚ, ਲੋਕ-ਕਲਾਵਾਂ ਤੇ ਲੋਕ-ਤਮਾਸ਼ੇ ਨੂੰ ਪੜ੍ਹ ਕੇ ਉਸ ਅੰਦਰਲੀ ਹੁਨਰੀ ਕਲਾ ਪ੍ਰਫੁਲਿਤ ਹੁੰਦੀ ਹੈ।

Course: ਮੁੱਢਲੀ ਪੰਜਾਬੀ (Punjabi Basic) Semester-VI

Learning Outcomes

- CO 1. ਵਿਦਿਆਰਥੀ ਸਭਿਆਚਾਰ ਤਦੇ ਪਿਛੋਕੜ, ਭੂਗੋਲਿਕ ਸਥਿਤੀ ਅਤੇ ਨਿਖੜਵੇਂ ਲੱਛਣਾਂ ਤੋਂ ਵਾਕਿਫ਼ ਹੁੰਦਾ ਹੈ ਜਿਸ ਨਾਲ ਉਸਦੀ ਸਭਿਆਚਾਰਕ ਸੂਝ ਪ੍ਰਫੁਲਿਤ ਹੁੰਦੀ ਹੈ।
- CO 2. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬ ਦੇ ਮੇਲਿਆਂ, ਤਿਉਹਾਰਾਂ ਅਤੇ ਧਾਰਮਿਕ ਸਥਾਨਾਂ ਦੇ ਮਹੱਤਵ ਤੋਂ ਜਾਣੂ ਹੁੰਦਾ ਹੈ।
- CO 3. ਉਹ ਜੀਵਨ ਦੇ ਵੱਖ-ਵੱਖ ਪੜਾਵਾਂ ਭਾਵ ਜਨਮ, ਵਿਆਹ, ਮੌਤ ਸੰਬੰਧੀ ਰਸਮਾਂ ਤੋਂ ਜਾਣੂ ਹੁੰਦਾ ਹੈ।
- CO 4. ਪੰਜਾਬ ਦੇ ਖਾਣ-ਪੀਣ, ਪਹਿਰਾਵੇ ਅਤੇ ਲੋਕ-ਵਿਸ਼ਵਾਸਾਂ ਨੂੰ ਸਮਝਦਾ ਹੈ।

Name of Programme: BCA/B.Com.(Financial Services)

Course: ਮੁੱਢਲੀ ਪੰਜਾਬੀ (Punjabi Basic) Semester-I:

Learning Outcomes

- CO 1. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
- CO 2. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨਿਯਮਾਂ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾਂ ਸਮਝਦੇ ਹਨ।

- CO 3. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨਿਯਮਾਂ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ।
- CO 4. ਵਿਦਿਆਰਥੀ ਸ਼ਬਦ ਜੋੜਾਂ, ਪੈਂਤੀ ਅੱਖਰੀ ਅਤੇ ਮੁਹਾਰਨੀ ਆਦਿ ਦਾ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

Course: ਮੁੱਢਲੀ ਪੰਜਾਬੀ (Punjabi Basic) Semester-II:

Learning Outcomes

- CO 1. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਬਾਰੇ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਪ੍ਰਾਪਤ ਕਰਦੇ ਹਨ।
- CO 2. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨਿਯਮਾਂ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾਂ ਸਮਝਦੇ ਹਨ।
- CO 3. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਦੇ ਨਿਯਮਾਂ ਦਾ ਗਹਿਨ ਅਧਿਐਨ ਕਰਦੇ ਹਨ
- CO 4. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬ ਦੀਆਂ ਰੁੱਤਾਂ, ਦੇਸੀ ਮਹੀਨਿਆਂ, ਸਾਕੇਦਾਰੀ ਆਦਿ ਦਾ ਮੁਲਾਂਕਣ ਕਰਦੇ ਹਨ।

Course: ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ (Punjabi Compulsory) Semester-I:

Learning Outcomes

- CO 1. ਵਿਦਿਆਰਥੀ ਅੰਦਰ ਪੰਜਾਬੀ ਕਵਿਤਾਵਾਂ ਤੇ ਕਹਾਣੀਆਂ ਨੂੰ ਪੜ੍ਹਨ, ਸਮਝਣ ਤੇ ਉਸਦੇ ਦੂਜੇ ਅਰਥਾਂ ਨੂੰ ਸਮਝਣ ਦੀ ਰੁਚੀ ਪ੍ਰਫੁਲਿਤ ਹੁੰਦੀ ਹੈ।
- CO 2. ਉਸ ਅੰਦਰ ਪੰਜਾਬੀ ਕਵਿਤਾ ਨੂੰ ਪੜ੍ਹ ਕੇ ਵਿਹਾਰਕ ਸੂਝ ਪੈਦਾ ਹੁੰਦੀ ਹੈ।
- CO 3. ਸਾਹਿਤ ਦੇ ਰੂਪ ਜੀਵਨੀ ਦੇ ਜੀਵਨੀ-ਅੰਸ਼ਾਂ ਦੁਆਰਾ ਵੱਖ-ਵੱਖ ਸ਼ਖ਼ਸੀਅਤਾਂ ਦੇ ਜੀਵਨ ਤੋਂ ਸੇਧ ਲੈਂਦਾ ਹੈ।
- CO 4. ਪੈਰ੍ਹਾ-ਰਚਨਾ ਕਰਨ ਨਾਲ ਉਸਦੀ ਸਿਰਜਣ ਸ਼ਕਤੀ ਵਿੱਚ ਵਾਧਾ ਹੁੰਦਾ ਹੈ।
- CO 5. ਵਿਦਿਆਰਥੀ ਭਾਸ਼ਾ ਦੇ ਟਕਸਾਲੀ ਰੂਪ ਸਮਝ ਕੇ ਭਾਸ਼ਾ ਤੇ ਉਪ-ਭਾਸ਼ਾ 'ਚ ਨਿਖੇੜਾ ਕਰਨਯੋਗ ਹੋ ਜਾਂਦਾ ਹੈ।
- CO 6. ਉਹ ਉਪ-ਭਾਸ਼ਾਵਾਂ ਦੇ ਪਛਾਣ-ਚਿੰਨ੍ਹਾਂ ਨੂੰ ਸਮਝ ਕੇ ਪੰਜਾਬ ਦੇ ਖੇਤਰੀ ਵਖਰੇਵੇਂ ਨੂੰ ਸਮਝਣਯੋਗ ਹੁੰਦਾ ਹੈ।

Course: ਲਾਜ਼ਮੀ ਪੰਜਾਬੀ (Punjabi Compulsory) Semester-II:

Learning Outcomes

- CO 1. ਵਿਦਿਆਰਥੀ ਪੰਜਾਬੀ ਸੱਭਿਆਚਾਰ ਨਾਲ ਸੰਬੰਧਿਤ ਨਿਬੰਧਾਂ ਦਾ ਅਧਿਐਨ ਕਰਕੇ ਸੱਭਿਆਚਾਰ ਵਰਗੇ ਵਿਸ਼ਾਲ ਸੰਕਲਪ ਨੂੰ ਸਮਝਣਯੋਗ ਹੁੰਦੇ ਹਨ।
- CO 2. ਸਾਹਿਤ ਦੇ ਰੂਪ ਜੀਵਨੀ ਦੇ ਜੀਵਨੀ-ਅੰਸ਼ਾਂ ਦੁਆਰਾ ਵੱਖ-ਵੱਖ ਸ਼ਖ਼ਸੀਅਤਾਂ ਦੇ ਜੀਵਨ ਤੋਂ ਸੇਧ ਲੈਂਦਾ ਹੈ।
- CO 3. ਵਿਦਿਆਰਥੀ ਨੂੰ ਸੰਸਾਰ ਪੱਧਰ ਉੱਪਰ ਇਤਿਹਾਸਕ, ਧਾਰਮਿਕ, ਸਮਾਜਿਕ, ਆਰਥਿਕ, ਸੱਭਿਆਚਾਰਕ ਸਮੱਗਰੀ ਇਕੱਤਰ ਹੁੰਦੀ ਹੈ।
- CO 4. ਸ਼ਬਦ ਸਿਰਜਣਾ ਤੇ ਸ਼ਬਦ ਭੰਡਾਰ ਵਿੱਚ ਵਾਧਾ ਹੁੰਦਾ ਹੈ।

Course: Music Vocal SEM-I

Learning Outcomes

- CO 1. To learn learn basics of Music Vocal.
- CO 2. To get basic knowledge of Ragas like Bilawal and Bhopali. CO 3. To know the process of Beat(Taal) like Teen Taal and Dadra.
- CO 4. To have Practical knowledge of Instruments like Harmonium, Tanpura,Tabla,Flute.CO 5. To know about the contribution of Guru Nanak Dev ji towards music.

Course: Music Vocal Sem-II

Learning Outcomes

- CO 1. To know about the historical development of Indian music in Vedic period.
- CO 2. To be familiar with terms of music like Ragas Kalyan, Asavari and Kafi, Taal Kehrawaand Ektaal,Thata,Vadi, Samvadi, Meend etc.
- CO 3. To learn the salient feaures of playing ragas according to time in Indain music.
- CO 4. To know the famous personalities like Pt.Vishnu Narayan Bhathkhande,V.D.Puluskarand their role in Indian music.
- CO 5. To have knowledge about the contribution of Bhai Mardana towards music.CO 6. To be familiar with

Gurmat Sangeet Ashtpadi, Ank, Kirtaniya pada.

Course: Music Vocal Sem-III

CO 1. To know about the history of Music in Akbar's era.

CO 2. Practical knowledge is given about raga Des and Varindabani Sarang.CO 3. Practical knowledge is given about taal as Ektaal, Deepchandi.

CO 4. To get knowledge about types of Taans.

CO 5. To study zealously about the Gurmat Kirtan Chonki. CO 6. To have detailed study of Taanpura and Sahayak Naad.

Course: Music Vocal Sem-IV

CO 1. To have a basic knowledge about style of singing of Khayal .

CO 2. To learn about the concept of Sargam Geet, Lakshan Geet, Saadra.CO 3. To learn about the Lakshana of Raga.

CO 4. To learn about the concepts of Raga Malkauns, Bihaag and Bhairavi.

CO 5. To know about great personalities in music like Ustad Amir Khan, Pt. Jasraj and S.SohanSingh.

CO 6. To know about the pros and cons of Gayaki.

CO 7. To have detailed knowledge of folk singing styles used in Gurmat Sangeet.CO 8. To get practical knowledge about Jhap taal, and Ada Chautal

Course: Music Vocal Sem-V

CO 1. To know about the importance of globalization in Indian music in modern era.

CO 2. To learn the styles of singing like Thumri, Tappa, Tarana and Chaturang.

CO 3. To learn about the folk music of Punjab.

CO 4. To know about concept of voice culture and stage performance.

CO 5. To learn the relationship between Music and Yoga.

CO 6. To get knowledge of classical styles of singing used in Gurmat Sangeet.

CO 7. To get practical knowledge of Raga Shudh Kalyan, Kedar and Darbari.

Course: Music Vocal Sem-VI

CO 1. To get detailed knowledge of Gharanas of Khayal gayaki

CO 2. To learn about the relationship between music and literature.

CO 3. To learn about the method of formation of 72 Thatas in Southern Music system of Pt.Vyankatmukhi.

CO 4. To learn the basics of Dhrupad and Dhammar style of singing.

CO 5. To get practical knowledge about the Ragas Jaunpuri and Bhageshwari.

Name of Programme: B.Sc. (Non-Medical)Physics

Programme Specific Outcomes

PSO 1 Critical Thinking : Critical thinking entails collecting data and drawing a conclusion from specific data .In Physics, collecting data and drawing conclusion is the basis for most experiments. The programme aims to give knowledge with facts and figures related to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Mathematics, Computer Science, Economics, Quantitative Techniques, Bio-informatics, Bio-technology etc.

PSO 2 Lifelong learning: Lifelong learning holds the key to sustainability and addresses the needs of future. It enables the students to understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevance in the day-to-day life.

PSO 3 Logical experimentation: The learners acquire the abilities in handling scientific instruments,

scheduling and executing the experiments in laboratories and to draw logical inferences from the scientific experiments.

PSO 4 Creative thinking: The learners become capable to construct new meanings and understandings based on their experiences inside and outside of formal education. They acquire creative skills including experimentation, questioning, communication and organisation.

PSO 5 Multidisciplinary approach: Studying Physics in a multidisciplinary way allows students to translate their background knowledge into a wide variety of career paths and fields of research.

PSO 6 Scientific aptitude: The programme targets to develop scientific aptitude among the students to make them open-minded, critical, curious, innovative and problem solver in order to deal with all aspects related to life.

PSO 7 Self-sustaining: To make them capable of applying their acquired knowledge and to make themselves self-reliant and self-sufficient.

Course Outcomes SEMESTER-I

Paper: Mechanics

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

CO 1: To classify different coordinate systems and apply the knowledge to find various physical quantities in different co-ordinate system.

CO 2: To reduce two body problem into one body problem using concept of reduced mass.

CO 3: To understand motion of a body under central forces and apply the concept to Planetary motion.

CO 4: To understand the concept of inertial/ non-inertial frames and apply the concept to explain some phenomenon in daily life.

CO 5: To understand elastic collisions in lab and C.M systems and will apply the concept to understand Rutherford scattering.

CO 6: To appreciate the concept of precession and its applications as elementary gyroscope.

Paper: Electricity and Magnetism

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

CO 1: To recall the basic ideas of vector calculus and will be able to apply it to vector fields.

CO 2: To understand the concept and evaluate Electric field and potential difference due to different types of distribution of charges.

CO 3: To transform the Electric and magnetic fields and related quantities in different inertial fields.

CO 4: To understand and apply the concept of electrical images to find electric field.

CO 5: To classify the materials on the basis of their magnetic properties and their behaviour in the magnetic field.

SEMESTER-II

Paper: Relativity and Electromagnetism

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

CO 1: To understand the special theory of relativity.

CO 2: To understand the concept of Minkowski space and four vector formalism.

CO 3: To learn about Hall effect and its applications.

- CO 4: To understand the concept of coupling of electrical circuits and their applications
CO 5: To know about the fundamentals of E.M Waves and response of different media to E.MWaves.

Paper: Vibrations and Waves

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

- CO 1: To recall the concept of simple Harmonic Motion and compare free, damped and forced oscillators.
CO 2: To apply the concept of damped and forced oscillators to electrical devices.
CO 3: To evaluate the normal mode of oscillations for coupled oscillators.
CO 4: To understand and apply the concept of impedance matching for propagation of wave through different media.
CO 5: To understand the basic theory of Electromagnetic waves and their propagation through free space and some medium.

SEMESTER-III

Paper: Statistical Physics

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

- CO 1: To understand about the basic laws of statistical physics and its scope.
CO 2: To explain the Concept of microstate, macrostate and Phase space.
CO 3: To compare the basic approaches of Maxwell Boltzmann, Bose Einstein and Fermi Dirac statistics.
CO4: To learn about the concept of entropy and its application to explain various natural phenomena.
CO 5: To develop Maxwell Thermodynamics relations and their applications in different processes.

Paper: Optics and Lasers

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

- CO 1: To learn about interference of light by division of amplitude and wave front.
CO 2: To apply the concept of interference of light in non-reflecting thin films and optical devices.
CO 3: To understand concept of polarization and apply it to produce and analyze polarized light.
CO 4: To explain about construction and application of Nicol prism, Quarter and Half wave plate.
CO 5: To understand the fundamentals of Laser and learn about various processes involved in LASER action
CO 6: To learn the principle, Construction and working of different lasers: Ruby laser, Nd:YAG laser, He-Ne and Carbon dioxide laser.

SEMESTER-IV

Paper: Quantum Mechanics

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

- CO 1: To understand about the formalism of Wave mechanics, Normalization and Probability interpretation of wave function.
CO 2: To explain the concept of wave particle duality.
CO 3: To illustrate the applications of Uncertainty principle.
CO 4: To define the fundamental postulates of wave mechanics.

Paper: Atomic and Molecular Spectra

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

- CO 1: To understand the one electron atomic spectra, and explain their fine structure
CO2: To learn concept of Vector model of atom.
CO 3: To understand the concept of LS, JJ Coupling schemes. Lande's-g factor will be introduced to them.

- CO4: To explain spectra of many electron systems e.g. of Helium and Alkaline Earth Spectra.
CO5: To learn about Production of X-rays and their Spectra.
CO6: To learn about Rotational, Vibrational, electronic energy levels and spectra of molecules.

SEMESTER-V

Paper: Condensed Matter Physics

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

- CO 1: To understand about the basics of crystal structure and symmetries operation in two and three dimensional crystals.
CO 2: To understand Experimental methods for crystal structure studies .
CO 3: To understand various reciprocal lattice, construction of Brillouin Zone in Two and three dimensions.
CO 4: To explain Concept of Phonons and calculate the density of modes of vibrations.
CO 5: To understand about the basic concepts of band theory and compare conductors, semi-conductors and insulator using Kronig-Penny model.

Paper: Nuclear Physics

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

- CO 1: To recall about the constituents of nucleus and various properties of nucleus.
CO 2: To classify various modes of decay of radioactive nuclides and the laws governing the radioactive decay.
CO 3: To compare between different types of nuclear reactions, their reaction cross section and conservation laws followed by them.
CO 4: To explain different Nuclear models- Liquid drop model and shell model.

SEMESTER-VI

Paper: Electronics

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

- CO 1: To explain the junction diodes and their applications.
CO 2: To explain about different transistors and the characteristics of their different configurations.
CO 3: To construct h parameters and outline their use for amplifier analysis.
CO 4: To understand the concept of feedback and use of negative feedback in amplifiers.
CO 5: To understand Barkhausen condition for sustained oscillations as well as construction and working of different types of oscillators.

Paper: Radiation and Particle Physics

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

- CO 1: To list various types of accelerators used for accelerating the charge particles.
CO 2: To understand Large Hadron Collider, which is world's largest accelerator.
CO 3: To study Different modes of interaction of heavy charge particle with matter .They will learn how the incident particle loses its energy when it enters into the matter.
CO 4: To explain Bethe-Bloch formula which tells about the energy loss per unit length when a charged particle enters into the matter.

Name of Programme: B.Sc. (Non-Medical) Chemistry

Programme Specific Outcomes

PSO 1 Critical Thinking : Critical thinking entails collecting data and drawing a conclusion from specific data .In Chemistry, collecting data and drawing conclusion is the basis for most experiments. The programme aims to give knowledge with facts and figures related to various subjects in pure sciences such as Physics, Chemistry, Botany, Zoology, Mathematics, Computer Science,

Economics, Quantitative Techniques, Bio-informatics, Bio-technology etc.

PSO 2 Lifelong learning: Lifelong learning holds the key to sustainability and addresses the needs of future. It enables the students to understand the basic concepts, fundamental principles, and the scientific theories related to various scientific phenomena and their relevance in the day-to-day life.

PSO 3 Logical experimentation: The learners acquire the abilities in handling scientific instruments, scheduling and executing the experiments in laboratories and to draw logical inferences from the scientific experiments.

PSO 4 Creative thinking: The learners become capable to construct new meanings and understandings based on their experiences inside and outside of formal education. They acquire creative skills including experimentation, questioning, communication and organisation.

PSO 5 Multidisciplinary approach: Studying Chemistry in a multidisciplinary way allows students to translate their background knowledge into a wide variety of career paths and fields of research.

PSO 6 Scientific aptitude: The programme targets to develop scientific aptitude among the students to make them open-minded, critical, curious, innovative and problem solver in order to deal with all aspects related to life.

PSO 7 Self-sustaining: To make them capable of applying their acquired knowledge and to make themselves self-reliant and self-sufficient.

Course Outcomes SEMESTER-I

Inorganic Chemistry

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

CO1: To illustrate Quantum mechanical approach to Atomic Structure, Periodic Properties, General characteristics of all the elements, their compounds with structure and preparation methods, chemical bonding.

CO2: To predict the geometries of different compounds.

CO3: To explain concepts of ionic solids and weak interactions.

Organic Chemistry-

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

CO1: To understand the nomenclature and classification of organic compounds.

CO2: To illustrate concepts of Organic chemistry like – Reaction Mechanism, intermediates and attacking reagents etc.

CO3: To discuss preparation and properties of different functional groups like Hydrocarbons, haloalkanes and Aromatic compounds.

Chemistry (Practical)

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

CO1: To develop the skills to determine Physical constants like Melting points and Boiling points.

CO2: To develop skills for separation and identification of ions. CO3: To learn apparatus handling and chemical hazards.

SEMESTER- II

Inorganic Chemistry

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

CO1: To understand concepts of acids and bases.

CO2: To explain s/p/d-block elements.

CO3: To understand the structure and properties of compounds of s/p/d-block.

Physical Chemistry-

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

CO1: To enable the students to explain about the various states of matter (Colloids, Gaseous, Liquid and solutions).

CO2: To illustrate solutions and colligative properties.
CO3: To discuss types of colloids and their properties and applications.

Chemistry (Practical)

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

CO1: To develop skill of Crystallization.

CO2: To learn and perform experiments related to physical chemistry i.e. Surface tension, viscosity, Chemical kinetics and Thermodynamics.

CO3: To learn apparatus handling.

SEMESTER-III

Organic Chemistry

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

CO1: To explain modern aspects of stereochemistry.

CO2: To illustrate synthesis and properties of some important class of organic compounds with mechanism.

Physical chemistry

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

CO1: To apply mathematical tools for chemistry.

CO2: To explain basic concepts and Laws of Thermodynamics, Distribution Law, Chemical and Phase Equilibria.

CO3: To solve numerical problems of above topics.

Chemistry (Practical)

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

CO1: To study techniques of Thin Layer Chromatography.

CO2: To learn quantitative estimations of Different ionic species using different branches of Volumetric and Gravimetric Analysis.

CO3: To learn apparatus handling and data analysis to reach appropriate conclusion.

SEMESTER- IV

Inorganic Chemistry

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

CO1: To explain advanced theories on coordination chemistry, structure, bonding and stereochemistry of important coordination compounds.

CO2: To discuss redox behavior of Elements.

CO3: To explain Non-Aqueous solvents.

CO4: To discuss chemistry of Lanthanides and Actinides.

CO5: To explain Bioinorganic Chemistry.

Organic Chemistry

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

CO1: To explain important class of Organic compounds with mechanism.

CO2: To discuss organometallic compounds and their applications in organic synthesis.

CO3: To explain synthesis of organometallic compounds and heterocyclic compounds.

Chemistry (Practical)

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

CO1: To estimate the Qualitative Analysis of Organic Compounds with Synthesis of their derivatives and physical constant determinations.

CO2: To learn apparatus Handling.

SEMESTER-V

Inorganic Chemistry

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

CO1: To illustrate crystal field splitting in coordination complexes, their Stability, colour and magnetic properties and use of Magnetic moments for Interpretation of their structures.

CO2: To explain Electronic Transitions, Selection Rules and Term Symbols.

CO3: To explain basic concepts of Organometallic compounds.

Physical chemistry

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

CO1: To explain Various Forms of electrochemical cells, conductance and related laws.

CO2: To explain Nuclear reactions.

CO3: To discuss Physical aspects of various branches of Spectroscopy.

Chemistry (Practical)

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

CO1: To develop skills for preparation of transition metal complexes.

CO2: To learn skills of Conductometric titrations and Refractive Index measurement.

CO3: To learn instrument handling.

SEMESTER-VI

Organic Chemistry

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

CO1: To discuss different spectroscopic methods of Analysis which includes UV, IR & NMR techniques.

CO2: To solve problems based on spectroscopy.

CO3: To illustrate basic concepts of Carbohydrates, Polymers, Organosulphur compounds, Amino acids, Proteins, RNA and DNA.

Physical Chemistry

CO1: To explain basic concepts of Quantum Mechanics.

CO2: To explain solid states.

CO3: To illustrate basic concepts of Photochemistry.

Chemistry (Practical)

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

CO1: To develop skills for synthesis of Organic compounds.

CO2: To explain Column chromatography as separation technique for mixture of compounds.

CO3: To learn Apparatus and Chemical handling.

Name of Programme: B.Sc. (Non-Medical)/B.A.(Maths) Mathematics

Programme Specific Outcomes

PSO 1: Understanding of the fundamental axioms in mathematics and capability of developing ideas based on them.

PSO 2: Inculcate mathematical reasoning.

PSO 3: Prepare and motivate students for research studies in mathematics and related fields.

PSO 4: Provide knowledge of a wide range of mathematical techniques and application of mathematical

methods/tools in other scientific and engineering domains.

PSO 5: Provide advanced knowledge on topics in pure mathematics, empowering the students to pursue higher degrees at reputed academic institutions.

PSO 6: Equip the student with skills to analyze problems, formulate an hypothesis, evaluate and validate results, and draw reasonable conclusions thereof.

PSO 7: Good understanding of number theory which can be used in modern online cryptographic technologies.

PSO 8: Nurture problem solving skills, thinking, creativity through assignments, project work.

PSO 9: Assist students in preparing (personal guidance, books) for competitive exams e.g. NET, GATE, etc.

PSO 10: Continue to acquire relevant knowledge and skills appropriate to professional activities and demonstrate highest standards of ethical issues in mathematical sciences.

Course Outcomes

SEMESTER-I

Paper I - Algebra

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

CO1: To understand Algebra forms the basis for Higher Mathematics and helps students to apply Mathematical results to more generalized concepts.

CO2: To learn how to deal with quadratic, cubic and bi-quadratic equations.

CO3: To find Eigen values and Eigen vectors of square matrix.

CO4: To solve linear equations in three or more variables.

Paper II - Calculus & Trigonometry

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

CO1: To learn the basic concepts of various functions like exponential functions, logarithmic functions and trigonometric functions and their applications to solve problems in real world.

CO2: To understand the concept of Limits, Continuity, Uniform continuity and derivatives and different properties of these concepts.

CO3: To learn how to apply De Moivre's theorem to solve various equations and primitive roots of the complex variables.

CO4: To find sums of different trigonometric series.

SEMESTER-II

Paper I- Calculus and Differential Equations

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

CO1: To trace graphs of different functions and how to find their asymptotes, multiple points etc.

CO2: To relate integrals of different functions using reduction formulae.

CO3: To solve differential equations with constant and variable coefficients.

CO4: To find maxima and minima, critical points and inflexion points of functions and use it to evaluate problems related to various solids.

Paper II -Calculus

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

CO1: To understand the concepts of Limits, Continuity, and partial derivatives of functions of two variables and different properties of these concepts.

CO2: To expand functions of two variables using Taylor's theorem.

CO3: To understand the concept of double triple integrals, how to solve them and their applications to

finding area and volumes of curves.

CO4: To learn and apply the change of order of integration to various double integrals.

SEMESTER-III

Paper I - Analysis

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

CO1: To study the concepts of sequence, series and their convergence and divergence and introduce the concept of Riemann integrals.

CO2: To check the convergence and divergence of sequence by using various tests.

CO3: To check whether the function is Riemann Integrable or not and find their numerical values.

CO4: To deal with improper integrals, Beta and Gamma functions.

Paper II - Analytical Geometry

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

CO1: To enhance the knowledge of Straight lines, parabolas, ellipse, hyperbola and sphere.

CO2: To Solve applied mathematics problems involving analytic geometry and conic sections.

CO3: To identify different conics from general equation of degree two.

CO4: To transform and rotate axis.

SEMESTER-IV

Paper I – Static & Vector Calculus

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

CO1: To know about the different kinds of forces acting on a body at rest and their properties

CO2: To learn about coplanar forces, parallel forces, Moments, Varignon's theorem of moments, Couples, Resultant of two Coplanar Couples, and Equilibrium of two Coplanar couples

CO3: To learn about Centre of Gravity of different bodies.

CO4: To understand Green's Theorem, Divergence Theorem, Stoke's theorem and evaluate line integrals, surface and volume integrals.

Paper II – Solid Geometry

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

CO1: To learn about the surfaces and solids in space like cones, cylinders and prisms.

CO2: To identify equation of cones and cylinders from a second degree equation in three variables.

CO3: To find surfaces of revolution of different curves. CO4: To identify type of general equation of second degree.

SEMESTER-V

Paper I – Dynamics

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

CO1: To understand the concept of speed, velocity, acceleration and use these in solving problems.

CO2: To learn about Newton's Laws of Motion and apply it to solve various problems.

CO3: To evaluate problems of work, power and energy and laws related to kinetic and potential energy.

CO4: To evaluate curvilinear motion of particle in a plane and projectiles.

Paper II – Number Theory

After the completion of this course, students will be :

CO1: To enhance the concepts of divisibility, G.C.D, L.C.M and basic properties of integers.

CO2: To apply Euclid's Algorithm and backward substitution.

CO3: To understand the definitions of congruences, residue classes and their properties and able to solve problems by congruences.

CO4: To learn about different number theoretic functions and their properties.

SEMESTER-VI

Paper I – Linear Algebra

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

CO1: To introduce the concepts of Groups, Rings and Fields, Vector Spaces and Linear Transformations.

CO2: To learn about linear span, Linear dependence, Linear independence of vectors and Linear combination of vectors, Basis of a vector space.

CO3: To solve problems of linear transformation and Algebra of linear transformation.

CO4: To learn Rank- Nullity theorem and Matrix of a linear transformation.

Paper II – Numerical Analysis

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

CO1: To learn common numerical methods and how they are used to obtain approximate solutions to otherwise intractable mathematical problems.

CO2: To derive numerical methods for various mathematical operations and tasks such as interpolation the solutions of linear and nonlinear equations.

CO3: To analyse and evaluate the accuracy of common numerical Methods.

CO4: To various method numerical integration and differentiation for finding the values of integrals and derivatives.