

PROGRAM
OUTCOMES
2021 – 2022

PROGRAMME OUTCOMES

(2021-22)

B.A.

B.A. programme has been designed to prepare graduates for attaining the following specific outcomes.

- The graduates will be acquainted with the social, economical, historical, geographical, political, ideological and philosophical traditional and thinking.
- It empowers the graduates to appear for various competitive examination or choose the post graduate programme of their choice.
- The programme provides the base to be the responsible citizen.
- It enables the students to acquire the knowledge with human values framing the base to deal with various problems in life with courage and humanity.

B.Com.

B.Com. programme has been designed to prepare graduates for attaining the following specific outcomes.

- It enables the graduates to acquire basic and fundamental knowledge and skills for doing business and commercial activities of their choice
- It empowers students to appear for various competitive exam or choose a profession of their choice such as: CA, CS, ICWA, MBA, M.Com. etc.
- This program makes students capable of doing business with basic knowledge and skill require for this profession.
- It helps students in the field of management accounting, corporate accounting, statistical and mathematical techniques and knowledge related to corporate law and business laws.

B.Com- CAV

B.Com Comp. App. programme has been designed to prepare graduates for attaining the following specific outcomes:

- Build a strong foundation in accounting, management and business subjects
- Seek variety of career options in accounting, management and business related fields
- Equip with skills and knowledge to excel in their future careers

- Develop critical thinking skills in students
- Enter master programmes like M.Com, MBA and pursue professional programmes like C.A, CMA, C.S, etc.
- Develop entrepreneurial skills

B.Sc.(Non-Medical)

B.Sc. programme has been designed to prepare graduates for attaining the following specific outcomes.

- Students learn to think scientifically, Rationally and independently.
- This programme makes students eligible to serve in DRDO, Defense, Public sector and private sector.
- Students can join M.Sc. in Physics, Chemistry, Mathematics, Information Technology and Nuclear mechanics
- Students acquire laboratory skills, they become able to analyze, classify and characterize different Chemical compounds.
- Learners learn to construct abstract models using appropriate mathematical tools.

B.Sc.(Medical)

B.Sc. programme has been designed to prepare graduates for attaining the following specific outcomes.

- This programme employs critical thinking and scientific knowledge to design ,carry out, record and analyze the result of chemical reactions.
- It develops research oriented skills among students by providing basic knowledge of the programme.
- It creates an awareness of the impact of Zoology and Botany on the environment, society and development outside the scientific community.
- It enables graduates to understand the population and community ecology, wetland forest and their conservation.

B.Sc. (Computer Science)

B.Sc. (Comp. Sc.) program has been designed to prepare graduates for attaining the following specific outcomes:

- Learn how to organize information efficiently in the forms of outlines, charts, etc. by using appropriate software. Develop the skills to present ideas effectively and efficiently.
- Do Academic and Professional Presentations - Designing and delivering an effective presentation and developing the various IT skills to the electronic databases.
- Ability to identify, formulate, analyze and solve problems of programming using different computer languages.
- Develop IT-oriented security issues and protocols. Design and implement a web page. Improve communication and business management skills, especially in providing technical support. Serve as the System Administrators with thorough knowledge of DBMS.
- Handle the Operating System and Computer Network solutions.

B.Sc. Fashion designing

Fashion designing is an art of inventing or innovating or adding beauty to clothing and by using certain accessories.

- Students become independent after completing this course and also improve and brush their skills. It becomes more confident enough to put their skills in this competitive market.
- This course enhance their knowledge in apparel designing and accessories through manually and digitally. Learns how to cut the fabric through patterns and sewing their garments in readymade style.
- Understand the knowledge of hand and machine embroidery and also be aware with printing, paintings and weaving

BCA

BCA program has been designed to prepare graduates for attaining the following specific outcomes:

- An ability to apply knowledge of mathematics, computer science and management in practice.
- An ability to enhance not only comprehensive understanding of the theory but its application too in diverse field.
- Ability to identify, formulate, analyze and solve problems of programming using different computer languages.

- To enhance logical ability and programming concepts by implementing programming lab.
- The program prepares the young professional for a range of computer applications, computer organization, techniques of Computer Networking, Software Engineering, Web development, Database Management and Advance Java.
- Use the Systems Analysis Design paradigm to critically analyze a problem.
- An ability to design a computing system to meet desired needs within realistic constraints such as safety, security and applicability in multidisciplinary teams with positive attitude.
- An ability to communicate effectively and be able to work in a team.

M.Com.

Program outcomes

- To provide a systematic and rigorous learning and exposure to accounting and finance related disciplines.
- To train the students 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 transactions of a business.
- To acquaint a student with conventional as well as contemporary areas in the discipline of commerce
- To enable a student well versed in national as well as international trends.
- To facilitate the students for conducting business, accounting and auditing practices, role of regulatory bodies in corporate and financial sectors nature of various financial instruments .
- To provide in depth understanding of all core areas specifically advanced accounting, management, business environment, tax planning.

SPECIFIC OUTCOME

After completing Masters in Commerce students are able to :-

- Develop an ability to apply knowledge acquired in problem solving .
- Ability to work in team with enhanced interpersonal skills and communication.
- The students can work in different domains.
- Ability to start their own business.

- Ability to work in public, private and MNCs .
- To develop leadership, managerial and administrative skills.
- Students can go for further professional courses like CA,CS,CMA,CFA.

M.Sc.(Mathematics)

M.Sc. Mathematics programme has been designed to prepare post graduates for attaining the following specific outcomes.

- It is highly developed programme which provides new insights and applications to the students.
- It is the medium for expressing knowledge about many physical phenomena and is concerned with patterns, systems and structures unrestricted by any specific application.
- Students able to find out or analyze scientific reasoning for various things and get knowledge about both pure as well as applied mathematics branches.
- This programme enables students to get advanced knowledge of principles, methods and clear perception of innumerable power of mathematical ideas and tools.
- It develops abilities for logical thinking, critical reasoning and problem solving.
- Career after M.Sc. Mathematics is very vast and huge. Students can acquire jobs in both government and private sector. Also they can pursue higher studies i.e., Ph.D., research etc.

MA - Fine Arts – Painting

- The detailed function knowledge of Theoretical, Historical and experimental aspects of Fine Arts.
- To integrate the gained knowledge with various contemporary and evolving areas in Fine Art like Visualization, painting, installation, Collage, murals etc.
- To understand, analyze, plan and implement practical knowledge of art with developing Artistic skill & concept.
- Provide opportunities to excel in academics, research and competitions.
- Enhancing knowledge of Indian art & cultural traditions.
- Knowledge of Vedic, medieval & modern Philosophies.
- Improving the emotional intelligence through Philosophy of art.
- Scientific & Logical knowledge of ancient Indian wisdom.

M.Sc. Computer Sc.

- Provides technology-oriented students with the knowledge and ability to develop creative solutions.
- Develop skills to learn new technology.

- Apply computer science theory and software development concepts to construct computing-based solutions.
- Design and develop computer programs/computer-based systems in the areas related to algorithms, networking, web design, cloud computing, Artificial Intelligence, Mobile applications.

M.A. Hindi

- Journalism: journalism takes place through various mediums, including television, radio, digital and print. Job opportunities are available with radio channels, magazines news websites, newspapers, news channels etc.
- Teachings: There are also opportunities in teaching line.
- Content writing/ editing : Hindi is used as a medium for a variety of publications part from journalism including text books, novels, play, poetry and more.
- Speech writing: speeches are made by business leaders, political leaders, influencers and more.
- Translation: Translators are very much in demand these days whether it is to translate official documents, news for article or even entire books.

SUBJECT
OUTCOMES
2021 – 2022

BOTANY SUBJECT OUTCOMES (2021-2022)

Paper code	Paper Name	Outcomes	
B.Sc.1st Semester			
Paper-1	Diversity of Microbes	CO1	Learn about Algae ,its Structure and life Cycle
		CO2	Able to differentiate between Fungi & Algae
		CO3	Learn about different kinds of Bacteria and its Role in our daily life
		CO4	Able to draw the diagrams of Virus
Paper - 2	Cell Biology	CO1	Understand the Structure and Functions of Cell Wall and Plasma membrane & different Cell organelles
		CO2	Gain information about Mitosis and Meiosis
Paper code	Paper Name	Outcomes	
B.Sc. 2nd Semester			
Paper- 1	Diversity of Archegoniate s	CO1	Know about various Bryophytes, &its habitat and its Structure and Reproduction
		CO2	Draw the diagrams of Pteridophytes
		CO3	Able to know about various Fossil Plants

BOTANY SUBJECT OUTCOMES (2021-2022)

		CO4	Learn the mechanisms of Fossilization
Paper- 2	Genetics	CO1	Able to draw the diagrams of Genetic materials and differentiate it
		CO2	Learn about Genetic Variations, Gene Expressions and its role in our daily life
Paper code	Paper Name	Outcomes	
B.Sc. 3rd Semester			
Paper-1	Biology and Diversity of Seed Plants 1	CO1	Gain knowledge about Gymnosperms diversity and its characters
		CO2	Learn about Geological Time Scale
		CO3	Know about Importance of Fossils and Reconstruction of various Fossil plants
		CO4	Learn details of various Gymnosperms
Paper- 2	Plant Anatomy	CO1	Gain knowledge about Tissues and Diversity in Plant forms
		CO2	Learn about Leaf structure in detail and Secondary growth in various Roots and Stem

BOTANY SUBJECT OUTCOMES (2021-2022)

Paper code	Paper Name	Outcomes	
B.Sc. 4 thSemester			
Paper -1	Biology and Diversity of Seed Plants -2	CO1	Know about Taxonomy, its Components and role
		CO2	Learns about identifications Keys and Taxonomic Ranks
		CO3	Able to draw floral diagram of Angiospermic families
		CO4	Learn Economic uses of Angiosperms
Paper-2	Plant Embryology	CO1	Know about Flower and its Various Floral parts
		CO2	Learns about detail Structure of Micro and Mega sporangium and Dispersal Mechanism in Fruit and Seed
B.Sc. 5 thSemester			
Paper code			
Paper Name			
Outcomes			
B.Sc. 5 thSemester			
Paper -1	Plant Physiology	CO1	Know about various plant Physiological Processes like Imbibition ,Osmosis etc.
		CO2	Learn about mineral Nutrition and Transpiration

BOTANY SUBJECT OUTCOMES (2021-2022)

		CO3	Able to know sPhotosynthesis detailed process
		CO4	Detailed Process of Respiration
Paper -2	Ecology	CO1	know about Ecology
		CO2	Understand Various Environmental factors and Global warming
Paper code	Paper Name	Outcomes	
B.Sc.6th Semester			
Paper-11	Biochemistry and Plant Biotechnology	CO1	Learn about different kinds of Enzymes and its role in our daily life
		CO2	Know about detail account of Various Plant hormones
		CO3	Able to differenitate between Nitrogen and Lipid metabolism

BOTANY SUBJECT OUTCOMES (2021-2022)

		CO4	Know about the role of Genetic Engineering and Biotechnology in our daily life
Paper- 2	Economic Botany	CO1	Learn about Cereal ,Pulses ,Vegetables and their Economic Uses
		CO2	Know about idea of Cultivation & Economic uses of Spices ,Medicinal Plants & Beverages

Paper code	Paper Name : chemistry	Outcomes	
Bsc. -I	TEACHER NAME	Students are able to	
101	MS. NEHA	CO1	Draw shapes of different orbitals & energy level diagrams
		CO2	Compare reactivities of various elements on the basis of periodic properties
		CO3	Learn different types of bonds & hybridizations
		CO4	Learn various bonding theories
		CO5	Understand ionic bond & lattice energy
102	MS. SHANKY	CO1	Understand various state of matter
		CO2	Deep study of liquid ,gas solid state
		CO3	Learn various method for their determination
		CO4	Compare liquid crystals of liquid and solid .
		CO5	Learn the polarimeter for determination of optical rotation
103	DR. AARTI TREHAN	CO1	Name various alkanes
		CO2	Understand various basic concepts of organic chemistry
		CO3	Compare reactivities of various reaction intermediate
		CO4	Learn method of preparation & properties of alkane & cycloalkanes
104	MS. SHANKY	CO1	Define & understand hydrogen bonding
		CO2	Understand various basic concepts of s&p block elements
		CO3	Compare reactivities of various elements of s & p block elements
		CO4	Learn method of preparation & properties of noble gas elements
		CO5	Learn various concepts of carbon family
105	MS. SHANKY	CO1	Learn the reactions and its rate .

		CO2	Study various laws of electrochemistry
		CO3	Know about ph its values ,buffer solution which help in practical work .
		CO4	Study of electrolytes and conductance which also help in handling of conductometer
106	DR. AARTI TREHAN	CO1	Name various alkenes, alkynes & alkyl halides
		CO2	Understand various basic concepts of mechanisms
		CO3	. Compare reactivities of various compounds and explain the reason
		CO4	Learn method of preparation & properties of alkenes, alkynes & alkyl, aryl halides
		CO5	Learn various types of dienes and alkyl halides
Paper code	Paper name	Out comes	
B.sc. 2 nd	Teacher name	Students will able to	
201	MS NEHA	CO1	Know the name and properties of d block elements
		CO2	Understands coordination compounds and chelates
		CO3	Learns isomerism in coordination compounds
		CO4	Differentiate inner and outer orbitals complexes
		Co5	Understands non –aqueous solvents
PAPER CODE	TEACHER NAME		STUDENTS WILL ABLE TO
CH -202	MS. SHANKY	CO1	Thermodynamics terms ;systems and surroundings

		CO2	Laws of thermodynamics
		CO3	Learn the conditions of temperature , pressure , heat
		CO4	Understand about the distribution law
		CO5	Determination of degree of hydrolysis .
CH-203	DR. AARTI TREHAN	CO1	Name various alcohols, phenols, ethers & acid and their derivatives
		CO2	Understand various basic concepts of mechanisms
		CO3	Compare reactivities of various compounds and explain the reason
		CO4	Learn method of preparation & properties of alcohols, phenols, ethers & acid
		CO5	Learn the basic principle of UV spectroscopy
CH-204	MS. SHIWANI	CO1	Understands lanthanides and actinides
		CO2	Compare and differentiate properties of lanthanides and actenides
		CO3	Differentiate between quantitative and qualitative
		CO4	Test for acid and base
		CO5	Clear concepts of analyses
CH-205	MS. SHIWANI	CO1	Learn about engine its effiecency
		CO2	Learn about carnot cycle
		CO3	Importance of thermodynamics laws for us.
		CO4	Study of cells hoe cells work

		CO5	Understand how the batteries work by the study of electrochemistry
CH-206	DR. AARTI TREHAN	CO1	Name various amines, aldehydes & ketones
		CO2	Understand various basic concepts of mechanisms
		CO3	Compare reactivities of various compounds and explain the reason
		CO4	Learn method of preparation of amines, diazonium salts, aldehydes & ketones
		CO5	Learn the basic principle of IR spectroscopy
B.SC. 3 RD YEAR			
PAPER CODE	TEACHER NAME	STUDENTS	WILL ABLE TO
CH-301	DR. SUNITA PAHWA	CO1	Learn and clear the concepts of valence bond theory
		CO2	Study the transition metal complexes
		CO3	Clear the concepts of d-d transition
		CO4	Factors affecting the crystal field parameters
CH-302	MS. SHANKY	CO1	Difference between classical mechanics and quantum mechanics .
		CO2	Study of wave nature
		CO3	Study of paramagnetic ,diamagnetic behaviour of substances .
		CO4	Study of different energy levels in vibrational spectrum and rotational spectrum

		CO5	Learn raman spectrum .polarizability.
CH-303	DR. AARTI TREHAN	CO1	Name various Organometallic compounds
		CO2	Compare reactivities of various organometallic compounds and explain the reason
		CO3	Learn name & classification of carbohydrates
		CO4	Differentiate among disaccharides and polysaccharides

CH-304	MS. SHIWANI /DR SUNITA PAHWA	CO1	Concepts of hard and soft acids
		CO2	Study of bioinorganic chemistry
		CO3	Difference between myoglobin and hemoglobin
		CO4	Study of silicones and phosphazenes
		CO5	Study
CH-305	MS . SHANKY	CO1	Study electronic spectrum .
		CO2	Concept of bonding and non bonding
		CO3	Learn molecular orbitals
		CO4	Laws of photochemistry
		CO5	Difference between thermal and photochemical reactions
CH-306	DR. AARTI TREHAN	CO1	Name & learn various addition and condensation polymers
		CO2	Understand various basic concepts of mechanisms of polymers
		CO3	Learn method of preparation of various heterocycles

		CO4	Understands and write classical and Merrifield synthesis of peptides
		CO5	Learns various classes of proteins & understand their structures

commerce

Subject Outcomes Odd Semester (2021-22)

B.Com Sem-1(General)			
BC 101	Financial Accounting I	CO-1	The students will be able to understand about book-keeping, accounting and their principles- concepts and conventions.
		CO-2	The students will be able to understand about books of accounts such as journal, ledger and trail balance. They will also get to know how to rectify the errors.
		CO-3	The students will be able to prepare depreciation and also get to know about provisions and reserves.
		CO-4	The students will be able to learn how to prepare final accounts, accounts of Non-profit Organizations, consignment accounts.
BC 102	Principles of Business Management	CO-1	The students will be able to understand about commerce, management - concept, approaches, functions.
		CO-2	They will be able to understand about planning, organizing- delegation and decentralization,
		CO-3	They will understand about Staffing, directing, controlling.
		CO-4	The students will be able to understand about division of work, efficiency and effectiveness of work.
BC 105	Business Mathematics I	CO-1	The students came to know about the Logarithms, Anti-logarithms.
		CO-2	The students will be able to understand about Sequences and series, Differentiation, Maxima and Minima of functions,
		CO-3	They will also get knowledge about Matrices and Determinants,
		CO-4	The students will also understand about Compound Interest and Annuities.

BC 106	Business Communication	CO-1	The students will able to learn about Business communication- models and theories.
		CO-2	Along with this,they will also get knowledge about Corporate communication- audience analysis, communication network and barriers, effective presentation skills, practices in business communication.
		CO-3	The students also able to know about Self development and communication, Practices of effective learning.
		CO-4	The students will be able to understand about how to increasing their interviewing skills, how to write business letters and emails.
B.Com Sem-1(Computer Application)			
BC 101	Financial Accounting I	CO-1	The students will able to understand about book-keeping, accounting and their principles- concepts and conventions.
		CO-2	The students will be able to understand aboutpreparing of journal, ledger and trail balance. They will also get to know how to rectify the errors.
		CO-3	They will get knowledge about capital and revenue. The students will be able to understand about preparation of depreciation and also get to know about provisions and reserves.
		CO-4	The students came to know about how to prepare final accounts, accounts of Non-profit Organizations, consignment accounts.
BC 103	Principles of Business Management	CO-1	The students will able to understand about commerce, management - concept, approaches, functions.
		CO-2	The students will be able to understand about planning, organizing- delegation and decentralization,
		CO-3	They will be able to understand about management Functions such as staffing, directing, controlling.
		CO-4.	The students will be able to understand about division of work, efficiency and effectiveness of work.

BC 106	Business Communication	CO-1	The students will be able to understand about Business communication- models and theories.
		CO-2	Along with this they will get knowledge about corporate communication- audience analysis, communication network and barriers.
		CO-3	They will also understand about Effective presentation skills, practices in business communication. The students also able to know about Self development and communication.
		CO-4	The students will be able to understand how to increasing their interviewing skills, how to write business letters and emails.
B.Com Sem.-II (General)			
BC 201	Financial Accounting II	CO-1	The students will be able to understand how to prepare branch accounts, partnership accounts.
		CO-2	Students will be able to understand hire purchase and installment purchase system.
		CO-3	Students will be able to understand about admission and retirement of partners.
		CO-4	To know about Reconstitution of partnership firm and Dissolution of partnership.
BC 203	Fundamentals of Marketing	CO-1	The students will be able to understand about Marketing- concepts and principles.
		CO-2	To understand about Marketing management, Marketing mix, Analysis of marketing environment, Marketing segmentation.
		CO-3	Students will understand about Product, Pricing, Promotion mix and Distribution channel.
		CO-4	Market Segmentation, product life cycle, new product development process.
BC 204	E-commerce	CO-1	The students will be able to understand about Internet-application and uses, Internet services, Information Technology and Business.
		CO-2	To understand about Transaction Processing System, Management Information System, E-commerce and Models-B2B, B2C, C2C.
		CO-3	To understand about Electronic Data Interchange, M-commerce, E-governance.

		CO-4	The students should be able to work on Internet - search engines, communication through Internet. Research using online sources – surveys, research on social networking sites.
BC 205	Business Mathematics II	CO-1	The students will able to understand about Permutations and Combinations
		CO-2	Binomial Theorem, Linear inequalities
		CO-3	Linear programming, Data representation and interpretation.
BC 206	Business Environment of Haryana	CO-1	The students will able to know about Haryana economy, Haryana Agriculture and Agriculture credit.
		CO-2	The students will understand about Micro, Small & Medium enterprises in Haryana.
		CO-3	The students will able to understand about role of HSIIDC, HFC, HAFED, HKVIB.
		CO-4	Haryana Budget and its objectives and policies, sources of revenues and its utilization.
B.Com Sem-II (Computer Application)			
BC 201	Financial Accounting II	CO-1	The student will able to understand how to prepare Branch Accounts, Partnership accounts.
		CO-2	Students will be able to understand about Admission and Retirement of partners.
		CO-3	To know about Reconstitution of partnership firm and Dissolution of partnership.
		CO-4	Students will able to understand hire purchase and installment purchase system
BC 203	Fundamentals of Marketing	CO-1	The students will able to understand about Marketing-concepts and principles, Marketing management.
		CO-2	To understand about Marketing management, Marketing mix, Analysis of marketing environment, Marketing segmentation.
		CO-3	Students will understand about Product, Pricing, Promotion mix and Distribution channel.
		CO-4	Market Segmentation, product life cycle, new product development process.
BC 204	E-commerce	CO-1	The students will able to understand about Internet-application and uses, Internet services, Information Technology and Business.

		CO-2	To understand about Transaction Processing System, Management Information System, E-commerce and Models-B2B, B2C, C2C.
		CO-3	To understand about Electronic Data Interchange, M-commerce, E-governance.
		CO-4	The students should be able to work on Internet - search engines, communication through Internet. Research using online sources – surveys, research on social networking sites.
B.Com Sem-3 (General)			
BC-301	Corporate Accounting	CO-1	Students will be able to classify different types of sources of finance.
		CO-2	Students will be able to understand about accounting for share capital & debentures; Book building, issue of right and bonus shares, buy back of shares.
		CO-3	Students will be able to understand and analyze the financial statements of companies .
		CO-4	To understand about amalgamation and reconstruction of companies and Internal reconstruction: concept and accounting treatment
BC-302	Business Statistics	CO-1	Students will be able to understand about learning different sources of data and methods to collect them.
		CO-2	Students will be able to understand the measures of central tendency.
		CO-3	Students understand about index numbers and time series will enhance their statistical skills used in research.
		CO-4	Analysis of Times Series,Computation of seasonal-indices by sample averages, ratio-to-trend, ratio-to moving average and link relative methods.
BC-303	Business Law-1	CO-1	This will help students in learning the Contract Act, validity, legality of Contract.
		CO-2	Students will be able to understand Remedies available in case of breach of contract etc.
		CO-3	They will be able to understand the Sales of goods Act 1930, Consumer Protection Act 1986.
		CO-4	Special contracts: indemnity & guarantee, bailment and pledge; contract of agency.

BC-304	Company Law	CO-1	Students will be able to understand about company and its formation.
		CO-2	types of companies,Memorandum of Association: clauses, doctrine of ultra vires, alteration of clauses. Articles of Association
		CO-3	Students will be able to understand the process of issue of shares and debentures and concepts related to them.
		CO-4	Students understand about Transfer & transmission of shares and debentures.
BC-305	Indian Financial System	CO-1	Students understand about nature and role of financial system and economic development
		CO-2	Students will be able to understand Financial markets and financial instruments, money and capital markets.
		CO-3	To understand about the debt market and different financial institutions of India.
		CO-4	Students will be able to understand the Financial institutions Reserve Bank of India organization, management and functions, credit creation and credit control.
BC-306	Rural Marketing	CO-1	Students will be able to understand about the rural marketing, process and different approach of rural marketing.
		CO-2	Students will be able to understand about the product planning,distribution of product
		CO-3	Students will be able to understand Planning and organizing personnel selling in rural markets; Innovation in rural market;
		CO-4	Students will be able to understand E-commerce in rural markets, E-chaupal & other similar initiatives in rural markets.
B.Com Sem-3 (Computer Application)			
BC-301	Corporate Accounting	CO-1	Students will be able to classify different types of sources of finance.
		CO-2	Students will be able to understand about accounting for share capital & debentures; Book building, issue of right and bonus shares, buy back of shares.

		CO-3	Students will be able to understand and analyze the financial statements of companies .
		CO-4	To understand about amalgamation and reconstruction of companies and Internal reconstruction: concept and accounting treatment
BC-302	Business Statistics	CO-1	Students will be able to understand about learning different sources of data and methods to collect them.
		CO-2	Students will be able to understand the measures of central tendency.
		CO-3	Students understand about index numbers and time series will enhance their statistical skills used in research.
		CO-4	Analysis of Times Series,Computation of seasonal-indices by sample averages, ratio-to-trend, ratio-to moving average and link relative methods.
BC-303	Business Law-1	CO-1	This will help students in learning the Contract Act, validity, legality of Contract.
		CO-2	Students will be able to understand Remedies available in case of breach of contract etc.
		CO-3	They will be able to understand the Sales of goods Act 1930, Consumer Protection Act 1986.
		CO-4	Special contracts: indemnity & guarantee, bailment and pledge; contract of agency.
BC-304	Company Law	CO-1	Students will be able to understand about company and its formation.
		CO-2	types of companies,Memorandum of Association: clauses, doctrine of ultra vires, alteration of clauses. Articles of Association
		CO-3	Students will be able to understand the process of issue of shares and debentures and concepts related to them.
		CO-4	Students understand about Transfer & transmission of shares and debentures.
B.Com Sem-4 (General)			
BC-401	Corporate Accounting-2	CO-1	Students will be able to do valuation of goodwill and shares.
		CO-2	They will be able to understand and analyze the accounts of banking and insurance companies.

		CO-3	Students will be able to evaluate the technique of valuation of consolidated balance sheet of holding company and able to analysis the concept of liquidation of company.
		CO-4	Gain confidence in preparation of bank accounts,insurance company, and holding company accounts independently
BC-402	Business Statistics-2	CO-1	Students will be able to understand the concept of simple correlation and different type of correlation like, multiple & partial and liner and non-liner diagrams.
		CO-2	They can also learn about different method of Karl Pearson, co-efficient, & spearman rank correlation
		CO-3	Students will be able to learn about regression and probability.
		CO-4	Students will be able to learn probability distribution and different concept of probability distribution like , Binomial, Poisson and normal distribution & their proprieties and parameters
BC-403	Business Law-2	CO-1	Students will be able to understand different acts like, negotiable Act 1881. Nature and scope,parties of negotiable instruments, dishonour and discharge of instruments,crossing and dishonour of cheque.
		CO-2	Students will be able to understand the Indian partnership act 1932. definition and nature of partnership. Relations of parties to third parties,dissolution of firms.

		CO-3	Students will be able to understand to concept of limited liability partnership act,2008. its introduction,nature and incorporation of limited liability partnership , partners and their relations, extent and limitations of liability,financial disclosures.investigation, conversion into limited liability partnership, winding up and dissolution
		CO-4	Students will be able to understand the concept of information technology act,2000 and Right to information act,2005
BC-404	Company Law -2	CO-1	students will be able to know about the memberships in companies .
		CO-2	Students will be able to understand the management & administration of companies and duties and limitations & role and appointments, rights and dismissal of general directors, managing directors and manager ,secretary.
		CO-3	Students will be able to know different type of meetings and also about agenda, quorum minutes & proxy.
		CO-4	Students will be able understand the accounts of companies and amalgamation & reconstruction and winding up producers of companies.
BC-405	Computerized Accounting System	CO-1	The students will be able to learn different tally programmers like, ERPS, and licensing configuration & tally vault password, ERP9.
		CO-2	The students will be able to learn how to make payroll and basic salary, overtime, gratuity loan ESI.
		CO-3	The students will be able to understand the Provident fund & pension, and commission at computerized system.
		CO-4	The students will be able to understand the stock management in computersied accounting syatem.

BC-406	Advertising	CO-1	The students will be able to understand the concept of advertising and different aspect of advertising like, communication, advertising mix, & type of advertising and objectives.
		CO-2	The students will be able to understand the Dag-mar approach and advertising budgets.
		CO-3	The students will be able to learn about creative aspect of advertising and advertising media.
		CO-4	The students will be able to understand the concept of Advertising agencies and effectiveness of advertising in dynamic environment.
B.Com Sem-4 (Computer Application)			
BC-401	Corporate Accounting-2	CO-1	Students will be able to do valuation of goodwill and shares.
		CO-2	They will be able to understand and analyze the accounts of banking and insurance companies.
		CO-3	Students will be able to evaluate the technique of valuation of consolidated balance sheet of holding company and able to analysis the concept of liquidation of company.
		CO-4	Gain confidence in preparation of bank accounts,insurance company, and holding company accounts independently
BC-402	Business Statistics-2	CO-1	Students will be able to understand the concept of simple correlation and different type of correlation like, multiple & partial and liner and non-liner diagrams.
		CO-2	They can also learn about different method of Karl Pearson, co-efficient, & spearman rank correlation.

		CO-3	Students will be able to learn about regression and probability.
		CO-4	Students will be able to learn probability distribution and different concept of probability distribution like , Binomial, Poisson and normal distribution & their proprieties and parameters.
BC-403	Business Law-2	CO-1	Students will be able to understand different acts like, negotiable Act 1881. Nature and scope, parties of negotiable instruments, dishonour and discharge of instruments, crossing and dishonour of cheque.
		CO-2	Students will be able to understand the Indian partnership act 1932. definition and nature of partnership. Relations of parties to third parties, dissolution of firms.
		CO-3	Students will be able to understand to concept of limited liability partnership act, 2008. its introduction, nature and incorporation of limited liability partnership , partners and their relations, extent and limitations of liability, financial disclosures. investigation, conversion into limited liability partnership, winding up and dissolution.
		CO-4	Students will be able to understand the concept of information technology act, 2000 and Right to information act, 2005
BC-404	Company Law -2	CO-1	Students will be able to know about the memberships in companies .
		CO-2	Students will be able to understand the management & administration of companies and duties and limitations & role and appointments, rights and dismissal of general directors, managing directors and manager , secretary.
		CO-3	Students will be able to know different type of meetings and also about agenda, quorum minutes & proxy.

		CO-4	Students will be able understand the accounts of companies and amalgamation & reconstruction and winding up producers of companies.
B.Com Sem-5 (General)			
BC-501	Cost accounting	CO-1	Students will be able to understand the nature, scope and techniques of cost accounting.
		CO-2	Students will be able to get knowledge about the concept & techniques of inventory control, labour cost accounting, idle time and overtime.
		CO-3	Students will be able to understand methods of wage payment , accounting for overheads, output costing and contract costing.
		CO-4	Students will be able to get knowledge about process costing, standard costing, variance analysis, cost control and cost reduction.
BC-502	Financial management	CO-1	Students will be able to understand the nature and scope of financial management and financial planning.
		CO-2	Students will be able to understand capitalisation, financial forecasting and sources of finance.
		CO-3	Students will be able to understand cost of capital , capital structure and capital budgeting.
		CO-4	Students will be able to get knowledge about management of working capital, management of receivables, inventory management and dividend policy.
BC-503	GOODS AND SERVICES TAX	CO-1	Students will be able to understand tax structure in India, administration of GST and taxable event under GST.
		CO-2	Students will be able to understand levy and collection of tax, exemption and composition scheme and time of supply.
		CO-3	Students will be able to understand the integrated goods and service tax Act, 2017 and nature of supplies.

		CO-4	Students will be able to understand place of supply, registration, payment of tax, offences and penalties.
BC-504	Income-Tax-1	CO-1	Students will be able to understand important definitions, agricultural income, residence and tax liability.
		CO-2	Students will be able to understand exemptions from tax, income from salaries and income from house property.
		CO-3	Students will be able to understand profits and gains of business or profession, depreciation and investment allowance and capital gains.
		CO-4	Students will be able to understand income from other sources, clubbing of incomes, set off and carry forward of losses.
BC-505	Auditing	CO-1	Students will be able to understand object, importance and limitations of auditing.
		CO-2	Students will be able to get knowledge about types of audit, audit process , audit programme, internal control ,internal check and internal audit.
		CO-3	Student will be able to understand routine checking, vouching, verification of assets and liabilities and appointment, power, duties and liabilities of an auditor.
		CO-4	Students will be able to understand audit report, investigation, auditing of e-commerce transactions and ethics.
BC-506	SUPPLY CHAIN MANAGEMENT	CO-1	Students will be able to understand meaning and features of supply chain management and marketing mix .

		CO-2	Students will be able to understand co-ordination and integration for supply chain management .
		CO-3	Students will be able to understand strategic supply chain management, transportation , warehousing and customer service.
		CO-4	Students will be able to understand distribution channel design, information system and recent developments in supply chain management.
B.Com Sem-5 (Computer Application)			
BC-501	Cost accounting	CO-1	Students will be able to understand the nature, scope and techniques of cost accounting.
		CO-2	Students will be able to get knowledge about the concept & techniques of inventory control, labour cost accounting, idle time and overtime.
		CO-3	Students will be able to understand methods of wage payment , accounting for overheads, output costing and contract costing.
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		CO-2	Students will be able to understand exemptions from tax, income from salaries and income from house property.
		CO-3	Students will be able to understand profits and gains of business or profession, depreciation and investment allowance and capital gains.
		CO-4	Students will be able to understand income from other sources, clubbing of incomes, set off and carry forward of losses.
B.Com Sem-6 (General)			
BC-601	MANAGEMENT ACCOUNTING	CO-1	The student will be able to understand about management accounting concepts and techniques
		CO-2	The student will be able to understand about the concept of fund flow and cash flow statements.
		CO-3	The student will be able to get knowledge about capital budgeting and decision making techniques
		CO-4	The student will be able to get knowledge about the preparation of various kinds of budgets
BC-602	FUNDAMENTALS OF INSURANCE	CO-1	The students will be able understand about the nature, objectives and types knowledge of insurance

		CO-2	The student will be able to understand about concept of fire insurance, marine insurance, accidental and motor insurance
		CO-3	The student will be able to analyze the procedures involved in life insurance
		CO-4	The student will be able understand about the role of insurance intermediaries
BC-603	HUMAN RESOURCE MANAGEMENT	CO-1	The student will be able to understand the concept and functions of HRM
		CO-2	The student will be able to understand the inter linkages among the pivotal functions concerning procurement of human resources viz. human resource planning, human resource policy, job analysis, recruitment, selection, induction and placement.
		CO-3	The student will be able to get the knowledge of different aspects concerning maintenance, developments and control of human resources in an organization.
		CO-4	The student will be able to learn how to deal with emerging issues concerning employee empowerment, quality of work life, job satisfaction and job stress.
BC-604	INCOME TAX-II	CO-1	The student will be able understand about deductions under section 80C to 80U in computing total income
		CO-2	The student will able to understand about deduction of tax at source; advance payment of tax and income tax authorities and their powers
		CO-3	The student will able to assess the income of an individual and the tax payable
		CO-4	The student will be able to gain practical knowledge in the computation of tax for different types of assessee
BC-605	BUSINESS ENVIRONMENT	CO-1	The student will be able to understand about the concept, significance and changing dimensions of business environment
		CO-2	The student will be able to identify various types of business environment and tools for scanning the environment
		CO-3	The student will be able to gain insights on role of

			economic systems, economic planning, government policies, public sector and development banks, economic reforms, liberalization and its impact on business
		CO-4	The student will be able to understand about the importance of multinational corporations, foreign collaboration and international institutions in business
BC-606	RETAIL MANAGEMENT	CO-1	The student will be able to understand the conceptual framework and strategic planning for retailing
		CO-2	The student will be able to comprehend different retailing formats and plan location of a retail store
		CO-3	The student will be able to get knowledge of customer service and financial management in retail organizations.
		CO-4	The student will be able to handle issues concerning information technology, social ethical and legal aspect in retailing.
B.Com Sem-6 (Computer Application)			
BC-601	Management accounting	CO-1	The student will be able to understand about management accounting concepts and techniques
		CO-2	The student will be able to understand about the concept of fund flow and cash flow statements.
		CO-3	The student will be able to get knowledge about capital budgeting and decision making techniques
		CO-4	The student will be able to get knowledge about the preparation of various kinds of budgets
BC-602	FUNDAMENTALS OF INSURANCE	CO-1	The student will be able understand about the nature, objectives and types knowledge of insurance
		CO-2	The student will be able to understand about concept of fire insurance, marine insurance, accidental and motor insurance
		CO-3	The student will be able to analyze the procedures involved in life insurance
		CO-4	The student will be able understand about the role of insurance intermediaries

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		CO-2	The student will be able to understand the inter linkages among the pivotal functions concerning procurement of human resources viz. human resource planning, human resource policy, job analysis, recruitment, selection, induction and placement.
		CO-3	The student will be able to get the knowledge of different aspects concerning maintenance, developments and control of human resources in an organization.
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		CO-2	The student will able to understand about deduction of tax at source; advance payment of tax and income tax authorities and their powers
		CO-3	The student will able to assess the income of an individual and the tax payable
		CO-4	The student will be able to gain practical knowledge in the computation of tax for different types of assessee
M.Com. Sem-1			
MC-101	Organizational behavior	CO-1	The student will be able to know the conceptual frame work and development of organizational behaviour.
		CO-2	The student will be able to understand the determinants and theories of personality

		CO-3	The student will be able to apply the understanding of perception.
		CO-4	The student will be able to learning in managing people at workplace, understanding of the group dynamics and transactional analysis.
MC-102	Business environment	CO-1	The student will be able to understand the role and importance of business environment.
		CO-2	The student will be able to examine the environmental factors affecting business decisions and evaluate the impact of privatization and globalization in the expansion of Indian business .
		CO-3	The student will be able to critically examine different economic policies and their contribution in the success of Indian business and making it competitive at global level
		CO-4	The student will be able to understand regulatory framework of business to make effective decision making
MC-103	Managerial economics	CO-1	The student will be able to estimate trends in demand through various forecasting technique
		CO-2	The student will be able to analyze the cost behavior for production decisions.
		CO-3	The student will be able to understand types of market conditions and taking decisions accordingly

		CO-4	The student will be able to study different business phases such as boom, depression, inflation, etc. for effective decision making..
MC-104	Company law	CO-1	The student will be able to understand the concept, types and characteristics of companies
		CO-2	The student will be able to aware of the objectives and contents of AOA and MOA
		CO-3	The student will be able to know the provisions regarding issue, allotment and transfer of shares and understand the appointment, powers of director.
		CO-4	The student will be able to understand the appointment, powers of director and the process of amalgamation and winding up of the companies.
MC-105	Accounting for managerial decisions	CO-1	The student will be able to know the concept and scope of management accounting and define the role of management and designing management information system for business organizations
		CO-2	The student will be able to understand the concept of responsibility accounting and measure the performance
		CO-3	The student will be able to enable the students to learn the preparation and application of budgetary statements
		CO-4	The student will be able to standard costing and marginal costing, and prepare the students to apply the recent accounting systems required to meet the challenges of competitive business environment.
MC-106	Marketing management	CO-1	The student will be able to familiarity with the concepts of marketing and the irrelevance in the current scenario

		CO-2	The student will be able to understand the product and pricing decision in a business.
		CO-3	The student will be able to developing promotional skills and logistics for efficient and effective connecting with the markets
		CO-4	The student will be able to learning responsible and tech-survey market operations.
M.Com Sem.-II			
MC-201	Human resource management	CO-1	The student will be able to understand the concept and functions of HRM in dynamic business environment
		CO-2	The student will be able to understand the inter linkages among the pivotal functions concerning procurement of human resources viz. human resource planning, human resource policy, job analysis, recruitment, selection, induction and placement.
		CO-3	The student will be able to get the knowledge of different aspects concerning maintenance, developments and control of human resources in an organization.
		CO-4	The student will be able to learn how to deal with emerging issues concerning employee empowerment, quality of work life, job satisfaction and job stress.
MC-202	International business environment	CO-1	The student will be able to understand the importance and scope of international business and examine the differences in environmental factors of various countries and their implications for international business decision

		CO-2	The student will be able to appreciate the role of international economic institution like WTO, UNCTAD, IMF and World Bank in regulating international business
		CO-3	The student will be able to know the evolution and working of regional economic cooperation such as EU, NAFTA ASEAN, SAFTA in expansion of international business
		CO-4	The student will be able learn the nature and developments in foreign exchange market and ways of managing foreign exchange risk.
MC-203	Strategic marketing	CO-1	The student will be able to understand the conceptual framework of strategic marketing planning.
		CO-2	The student will be able to analyze the business environment for strategic decision making
		CO-3	The student will be able to learn different types of marketing strategic alternatives at various stages of development of a firm
		CO-4	The student will be able to link business strategies with marketing mix and analyze how marketers implement and control marketing strategies.
MC-204	Financial Management & policy	CO-1	The student will be able to know the scope and recent developments in the field of financial management.
		CO-2	The student will be able to understand financial forecasting and develop financial plans
		CO-3	The student will be able to ascertain the cost of capital and estimate the working capital requirement for the business.
		CO-4	The student will be able to learn capital expenditure and risk analysis for better decision making.

MC-205	Corporate accounting	CO-1	The student will be able to understand the provisions of regulatory bodies relating to issue, forfeiture and valuation of shares and presentation of final statements.
		CO-2	The student will be able to prepare and present the accounts for restructuring, human resource and lease accounting.
		CO-3	The student will be able to develop consolidated financial statement
		CO-4	The student will be able to learn the specific requirements of financial statements and harmonization of corporate reports.
MC-206	Business statistics	CO-1	The student will be able to apply correlation and multiple regression to know relationship between the variable
		CO-2	The student will be able be aware of the concepts of index number and their applications .
		CO-3	The student will be able to know the components of time series, its models and application
		CO-4	The student will be able to understand the concepts of probability and probability distributions
MC-207	VIVA/VOCE CUM CASE STUDY		Knowledge appraisal of students
M.Com Sem-III			
MC 301	COMPUTER APPLICATION IN BUSINESS	CO-1	The student will be able to understand the structure and organization of the computers
		CO-2	The student will be able to will be able to recognize and use the hardware and software of the computers.

		CO-3	The student will be able to understand the concept of computer network topologies and basic information technology
		CO-4	The student will be able to understand the use of computer in business operations.
MC 302	Advanced Financial Management	CO-1	The student will be able to acquaint them with dividend decision & models.
		CO-2	The student will be able to know the determinants of capital structure and analysis EBIT.
		CO-3	The student will be able to know the broad areas and techniques of corporate restructuring
		CO-4	The student will be able to understand and implement financial restructuring.
MC304	Financial institution of market	CO-1	The student will be able to understand the Indian financial system and it's Role in economic development
		CO-2	The student will be able to know the role of different types of financial market and their regulatory framework .
		CO-3	The student will be able to know operational and promotional activities of development banks
		CO-4	The student will be able to develop understand about merchant banking and mutual funds..
MC 311	International Marketing	CO-1	The student will be able to identify the opportunities and challenges in international marketing.
		CO-2	The student will be able to analyze he international marketing environment and strategies for entering international markets.

		CO-3	The student will be able to understand the marketing mix of international markets
		CO-4	They will know the techniques for controlling international marketing operations.
MC313	Retail Management	CO-1	The student will be able to understand the conceptual framework and strategic planning for retailing
		CO-2	The student will be able to comprehend different retailing formats and plan location of a retail store
		CO-3	The student will be able to get knowledge of customer service and financial management in retail organizations.
		CO-4	The student will be able to handle issues concerning information technology, social ethical and legal aspect in retailing.
MC316	Human resource Development	CO-1	The student will be able to understand the conceptual framework of HRD and the role, responsibility, and quality of HRD manager.
		CO-2	The student will be able to develop a framework of HRD in an organization based on the understanding of theoretical edifice of HRD system, HRD strategies and emerging trends in HRD for ensuring organizational effectiveness.
		CO-3	The student will be able to understand of learning and knowledge management in developing human resources.
		CO-4	The student will be able to get the knowledge of role analysis, competency mapping and employee socialization.
M.Com Sem-IV			

MC 401	IT AND E-Commerce	CO-1	The student will be able to the understand the concept of e-commerce its difference and relationship with traditional commerce and business models of e-commerce.
		CO-2	The student will be able to know the use of online resources for marketing, advertising, CRM
		CO-3	The student will be able to learn the use of cloud computing, ERP and cyber laws
		CO-4	The student will be able to appreciate the security issues in e-commerce and measures to safeguard from them.
MC 402	Corporate tax Planning And Management	CO-1	The student will be able to understand the difference between Tax planning, tax Evasion and Tax avoidance.
		CO-2	The student will be able to learn the techniques to apply the tax planning with respect to form of business organization, nature and location
		CO-3	The student will be able to compute of tax liability of companies
MC 417	Organizational Change Intervention and Intervention	CO-1	The student will be to understand the natures and forces of change and managing the transition

		CO-2	The student will be able to deal with individual and group while bringing change and overcoming resistance to change.
		CO-3	The student will be able to know the concept of organizational development and implementing OD interventions at individual and team level to introduce planned change
		CO-4	The student will be able to explore issue and challenges for OD practitioners and evaluating OD practices in India.
MC 418	Strategic Management	CO-1	The student will be able to get the knowledge of strategic management process and develop analytical ability to make environmental and organizational appraisal
		CO-2	The student will be able to understand various level of strategy along with generic strategy alternatives and strategy alternatives available
		CO-3	The student will be able to learn the international strategic alternatives and strategic choice making process.
		CO-4	The student will be able to understand the various issues and decision involved in strategy implementation along with process and techniques of strategic evaluation and control
MC 411	Consumer Behaviour	CO-1	The student will be able to understand the consumer buying process to enable the marketers to table marketing decisions accordingly
		CO-2	The student will be able to explore the underlying variable resulting into difference in consumer decision making

		CO-3	The student will be able to know opinion leadership and its role in spreading the innovations among masses
		CO-4	The student will be able to understand models of buying behavior.
MC 412	Rural Marketing	CO-1	The student will be able to understand the rural environment to know potential and challenges in the rural market
		CO-2	The student will be able to explore rural marketing strategies to tap rural markets and also to remain competitive
		CO-3	The student will be able to research the rural market to explore areas where companies can position itself in the market.
		CO-4	The student will be able to examine the 4p's and 4A's in the rural marketing and use of IT in rural marketing.

Subject Outcomes (2021-22)**Computer Science**

Paper Code	Paper Name		Course Outcomes
M.Sc. Computer Sc. Sem-1			
MS 15-11	Web Engineering	CO1	Explain the history of the internet and related internet concepts that are vital in understanding web development.
		CO2	Discuss the insights of internet programming and implement complete application over the web.
		CO3	Demonstrate the important HTML tags for designing static pages and separate design from content using Cascading Style sheet.
		CO4	Utilize the concepts of JavaScript and Java e) Use web application development software tools i.e., Ajax, PHP and XML etc. and identify the environments currently available on the market to design web sites.
MS 15-12	Data Structures And Algorithms	CO1	Understand the concept of Dynamic memory management, data types, algorithms, Big O notation.
		CO2	Understand basic data structures such as arrays, linked lists, stacks and queues.
		CO3	Describe the hash function and concepts of collision and its resolution methods
		CO4	Solve problem involving graphs, trees and heaps
		CO5	Apply Algorithm for solving problems like sorting, searching, insertion and deletion of data
MS 15-13	Software Engineering	CO1	Understand the basics of operating systems like kernel, shell, types and views of operating systems
		CO2	Describe the various CPU scheduling algorithms and remove deadlocks.
		CO3	Explain various memory management techniques and concept of thrashing
		CO4	Use disk management and disk scheduling algorithms for better utilization of external memory. e) Recognize file system interface, protection and security mechanisms.
		CO5	Explain the various features of distributed OS like Unix, Linux, windows etc.
MS 15-14	Discrete Mathematical Structures	CO1	Perform operations on various discrete structures such as sets, functions, relations, and sequences.
		CO2	Ability to solve problems using Counting techniques, Permutation and Combination, Recursion and generating functions
		CO3	Apply algorithms and use of graphs and trees as tools to visualize and simplify Problems.
		CO4	Apply algorithms and use of graphs and trees as tools to visualize and simplify Problems.
		CO5	Use of K-Maps and Truth Tables to construct and verify correctness of a Boolean expression.
		CO6	Understand the various properties of algebraic systems like Rings, Monoids and Groups.

M.Sc. Computer Sc. Sem-2			
MS 15-21	Java Programming	CO1	Summarize the strengths and weaknesses of Java programming and the basic concepts of object-oriented programming
		CO2	Identify Java code utilities in applets, Java packages, and classes.
		CO3	Write Java code using advanced Java features.
MS 15-22	Linux And Shell Programming	CO1	To understand and make effective use of linux utilities and shell scripting language to solve problems
		CO2	To implement in C some standard linux utilities like mv,cp,ls etc...
		CO3	To Develop the skills the necessary for systems programming including file system programming,process and signal management and interprocess communication
		CO4	To develop the basic skills required to write network programs using sockets
MS 15-23	Theory Of Computation	CO1	To use basic concepts of formal languages of finite automata techniques
		CO2	To Design Finite Automata for different Regular Expressions and Languages
		CO3	To Construct context free grammar for various languages
		CO4	To solve various problems of applying normal form techniques, push down automata and Turing Machines
		CO5	To participate in GATE, PGECET and other competitive examinations
MS 15-24	Compiler Design	CO1	Specify and analyse the lexical, syntactic and semantic structures of advanced language features
		CO2	Separate the lexical, syntactic and semantic analysis into meaningful phases for a compiler to undertake language translation
		CO3	Write a scanner, parser, and semantic analyser without the aid of automatic generators
		CO4	Turn fully processed source code for a novel language into machine code for a novel computer
		CO5	Describe techniques for intermediate code and machine code optimization
BCA Sem-1			
111	Computer and Programming Fundamentals	CO1	Understand basics of H/W & S/W. Basics of various Opr. sys.
		CO2	Be aware of Problem Solving Techniques like Algorithms & Flowcharts to develop logic steps of simple problems
112	Windows and PC Software	CO1	Be able to use Windows operating sys. & MS Excel
113	Mathematical Foundation-I	CO1	Understand the foundations of mathematics
		CO2	Students understand the concept of sets, relations, functions, and discrete structures.
		CO3	Use mathematical ideas to model real world problems. And Develop and maintain problem-solving skills
114	Logical	CO1	Understand Binary no. Sys. Also Hexadecimal & Octal no. sys.

	Organization of Computers – I	CO2	Understand Boolean algebra & various Logic Gates.
115	Communicative English	CO1	Improve the language skills i.e. Listening Skills, Speaking Skills, Reading Skills and Writing Skills (LSRW)
		CO2	Enhance comprehension skills, presentation skills, group discussion skills etc
		CO3	Develop confidence for communicating in English and create interest for the life-long learning of English language
116	Programming in C	CO1	Understand basic C-programming concepts like data-types, operators, arrays & various C-statements.
		CO2	Apply control structures and user defined functions for solving problem.
		CO3	Develop simple C Programs

BCA Sem-2

121	Advanced Programming in C	CO1	Understand use of Strings, Pointers and also Files.
		CO2	Understand Macros & command line arguments
122	Logical Organization of Computers – II	CO1	Understand various types Flip flops & Sequential Circuits – Registers & Counters.
		CO2	Also understand Memory, I/O Devices, m/c Instructions & Instruction Cycle.
123	Mathematical Foundations-II	CO1	Explore, analyze and apply mathematical ideas using reason, technology and others tools.
		CO2	Estimate reasonably and demonstrate fluent, flexible and strategic thinking about number.
124	Office Automation Tools	CO1	Know Desktop Publishing – Page Maker, Word processing – MS-Word and be able to design Power Point Presentations.
125	Structured System Analysis and Design	CO1	Understanding the life cycle of a systems development project.
		CO2	Learn to analyze, model and design business system and process requirements using common tools and methodologies.
126	Personality Development	CO1	Enhance one's Personality & Personal Grooming.
		CO2	Understand Interpersonal Skills, Role playing, Group Discussion & Presentation skills
		CO3	Design effective resume & prepare oneself to face interviews.

BCA Sem-3

231	Object Oriented Programming Using C++	CO1	Understand Object oriented Programming concepts.
		CO2	Know about Constructor handling, Functions, Array of objects, Passing and Returning Objects to Functions, Dynamic Memory Management.
		CO3	Polymorphism - Operator Overloading & function overloading
232	Data Structures	CO1	Understand difference between data type & Data Str
		CO2	Know about Strings, Arrays, Stacks, Queue & Trees
		CO3	Learn to develop simple applications using various data str.

233	Computer Architecture	CO1	Describe the fundamental organization of a computer system
		CO2	Understand Register Transfer and Micro-operations.
		CO3	Explain addressing modes, instruction formats and program control statements.
		CO4	Know about Memory Organization & Peripheral Devices.
234	Software Engineering	CO1	Understand program vs. Software, Software Engineering, Programming paradigms.
		CO2	Knowing Software Development Process Models – Waterfall, etc.
		CO3	Feasibility Study, Software Requirement Analysis and Specifications – SRS
		CO4	Structured Analysis and Tools & Maintenance Process.
		CO5	Role of project management including planning, scheduling and, risk management
235	Fundamentals of Data Base Systems	CO1	Differentiate between Data & information. Also know about File-based sys. & Database sys.
		CO2	Understand components of DBMS – DBA, Data dictionary, etc
		CO3	Understand architecture – 3 level data representation and data independence. Differentiate Centralized and Client Server architecture to DBMS
		CO4	Know data models including ER Model & be able to build a ER Model given a problem.
		CO5	Understand Relational Model – Keys & Data Constraints. Also compare RDBMS with Hierarchical & Network Model.
236	Computer Oriented Numerical Methods	CO1	Understand that a numerical solution can be obtained for problems, where an analytical solution does not exist
		CO2	Know computer arithmetic, iterative methods, linear equations and ordinary differential equations, Interpolation and Approximation & Numerical Differentiation and integration

BCA Sem-4

241	Advanced Data Structures	CO1	Understand Trees & Graphs structures
		CO2	Learn to compare various searching & sorting techniques on the basis of their complexity
		CO3	Able to to implement Files & know about various File organization methods
242	Advanced Programming using C++	CO1	Understand Dynamic Polymorphism - Function Overriding, Abstract Class, etc
		CO2	Type Conversion, Inheritance, Genericity in C++: Templates, Class templates & Exception Handling in C++.
243	E-Commerce	CO1	Able to analyze the impact of E-commerce on business models and strategy.
		CO2	Know Applications in governance
		CO3	Understand how procurement and supply chains relate to B2B E-commerce

		CO4	Emerging Business models – Retail model; Media model; advisory model, made-to-order manufacturing model, etc
244	Relational Data Base Management System	CO1	Understand RDBMS concepts – keys, Data Constraints, etc
		CO2	Able to understand role of Relational algebra & Tuple/domain calculus.
		CO3	Able to build efficient Databases using Normalization
		CO4	Able to use SQL queries & Design programs using PL/SQL constructs.
245	Computer Oriented Statistical Methods	CO1	Able to formulate complete, concise, and correct mathematical proofs
		CO2	Prepare Frequency Distribution Table, Coefficient of mean Deviation, Standard Deviation
		CO3	Understand Probability Distribution, Correlation, Regression, Curve Fitting, Baye’s Theorem in Decision Making, Forecasting Techniques.
		CO4	Know sampling & Statistical Inference
246	Management Information System	CO1	Evaluate the role of information systems in today's competitive business environment
		CO2	Identify managerial risks related to information system organization processing and utilizing
		CO3	Analyze the role played by the six major types of information systems in organizations
		CO4	Identify the salient characteristics of organizations.
		CO5	Evaluate models for determining the business value of information systems.
		CO6	Analyze the principal causes of information system failure.
BCA Sem-5			
351	Web Designing Fundamentals	CO1	Write HTML and understand how to effectively implement it in the web environment
		CO2	Write CSS effectively to create well organized, styled web pages. Create a functioning web store with variable products.
352	Operating System-I	CO1	learn how Operating System is Important for Computer System. To make aware of different types of Operating System and their services.
		CO2	To learn different process scheduling algorithms and synchronization techniques to achieve better performance of a computer system
		CO3	To know virtual memory concepts
		CO4	To learn secondary memory management.
353	Artificial Intelligence	CO1	Demonstrate fundamental understanding of the history of artificial intelligence (AI) and its foundations
		CO2	Apply basic principles of AI in solutions that require problem solving, inference, perception, knowledge representation, and learning
		CO3	Demonstrate awareness and a fundamental understanding of various applications of AI techniques in intelligent agents, expert systems, artificial neural networks and other machine learning models
354	Computer Networks	CO1	Recognize the technological trends of Computer Networking.

		CO2	Discuss the key technological components of the Network.
		CO3	Evaluate the challenges in building networks and solutions to those.
355	Programming Using Visual Basic	CO1	Students list the visual programming concepts.
		CO2	Explain basic concepts and definitions
		CO3	Express constants and arithmetic operations & Distinguish variable and data types
356	Multimedia Tools	CO1	Describe the types of media and define multimedia system.
		CO2	Describe the process of digitizing (quantization) of different analog signals (text, graphics, sound and video)
		CO3	Use and apply tools for image processing, video, sound and animation
		CO4	Apply methodology to develop a multimedia system
BCA Sem-6			
361	Web Designing Using Advanced Tools	CO1	Write HTML and understand how to effectively implement it in the web environment
		CO2	Write CSS effectively to create well organized, styled web pages. Create a functioning web store with variable products
362	Operating System-II	CO1	This course is a constructive study of an operating system. Key topics include the kernel, process and memory managers, file access, I/O driver, scheduler, etc
		CO2	Throughout the course, a seminar approach will be adopted and much time will be given to group discussion simulating an industrial environment
		CO3	Students are collectively expected to analyze and document an operating system using MacOS, UNIX/Linux like, Windows, Netware and mainframe as practical examples
363	Computer Graphics	CO1	Discuss various algorithms for scan conversion and filling of basic objects and their comparative analysis
		CO2	Use of geometric transformations on graphics objects and their application in composite form
		CO3	Extract scene with different clipping methods and its transformation to graphics display device
		CO4	Explore projections and visible surface detection techniques for display of 3D scene on 2D screen
		CO5	Render projected objects to naturalize the scene in 2D view and use of illumination models for this
364		CO1	Analyze a web page and identify its elements and attributes
		CO2	Create web pages using XHTML and Cascading Style Sheets
		CO3	Build dynamic web pages using JavaScript (Client side programming).
		CO4	Create XML documents and Schemas
365	Advanced Programming with	CO1	This course is a Visual BASIC programming language with object-oriented programming principles

	Visual Basic	CO2	Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test, debug, and implement objects using the appropriate environment
		CO3	This course has been approved for transfer under the CAA as a premajor and/or elective course requirement.
366	Programming in Core Java	CO1	Use an integrated development environment to write, compile, run, and test simple object-oriented Java programs
		CO2	Read and make elementary modifications to Java programs that solve real-world problems
		CO3	Validate input in a Java program.
		CO3	Identify and fix defects and common security issues in code
		CO4	Document a Java program using Javadoc.
		CO5	Use a version control system to track source code in a project

B.Sc. NM Sem-1 Computer Sc.

P-1	Computer and Programming Fundamentals	CO1	Understand basics of H/W & S/W. Basics of various Operating sys
		CO2	Be aware of Problem Solving Techniques like Algorithms & Flowcharts to develop logic steps of simple problems
P-2	PC Software	CO1	Be able to use Windows operating sys. & MS Excel

B.Sc. NM Sem-2 Computer Sc.

P-1	Programming in C	CO1	Understand basic C-programming concepts like data-types, operators, arrays & various C-statements
		CO2	Apply control structures and user defined functions for solving problem.
		CO3	Understand use of Strings, Pointers and also Files
		CO4	Understand Macros & command line arguments
P-2	Logical Organization of Computers	CO1	Understand Binary no. Sys. Also Hexadecimal & Octal no. sys
		CO2	Understand Boolean algebra & various Logic Gates
		CO3	Understand various types Flip flops & Sequential Circuits – Registers & Counters
		CO4	Also understand Memory, I/O Devices, m/c Instructions & Instruction Cycle

B.Sc. NM Sem-3 Computer Sc.

P-1	Data Structures	CO1	Understand difference between data type & Data Str.
		CO2	Know about Strings, Arrays, Stacks and Queue & Trees.
		CO3	Understand Trees & Graphs structures.
		CO4	Learn to compare various searching & sorting techniques on the basis of their complexity
		CO5	Able to implement Files & know about various File organization

			methods
		CO6	Learn to develop simple applications using various data str
P-2	Software Engineering	CO1	Understand program vs. Software, Software Engineering, Programming paradigms.
		CO2	Knowing Software Development Process Models – Waterfall, etc
		CO3	Feasibility Study, Software Requirement Analysis and Specifications – SRS
		CO4	Structured Analysis and Tools & Maintenance Process
		CO5	Role of project management including planning, scheduling and, risk management.

B.Sc. NM Sem-4 Computer Sc.

P-1	Object Oriented Programming with C++	CO1	Know about Constructor handling, Functions, Array of objects, Passing and Returning Objects to Functions, Dynamic Memory
		CO2	Polymorphism - Operator Overloading & function overloading
		CO3	Understand Dynamic Polymorphism - Function Overriding, Abstract Class, etc.
		CO4	ype Conversion, Inheritance, Genericity in C++: Templates, Class templates & Exception Handling in C++
P-2	Operating System	CO1	To make aware of different types of Operating System and their services
		CO2	To learn different process scheduling algorithms and synchronization techniques to achieve better performance of a computer system
		CO3	To know virtual memory concepts & to learn secondary memory management

B.Sc. NM Sem-5 Computer Sc.

P-1	Fundamentals of Data Base Systems	CO1	Differentiate between Data & information. Also know about File-based sys. & Database sys
		CO2	Understand architecture – 3 level data representation and data independence. Differentiate Centralized and Client Server architecture to DBMS
		CO3	Know data models including ER Model & be able to build a ER Model given a problem.
P-2	Web Designing	CO1	Write HTML and understand how to effectively implement it in the web environment
		CO2	Write CSS effectively to create well organized, styled web pages. Create a functioning web store with variable products.

B.Sc. NM Sem-6 Computer Sc.

P-1	RDBMS	CO1	Understand Relational Model – Keys & Data Constraints. Also compare RDBMS with Hierarchical & Network Model
		CO2	Understand RDBMS concepts – keys, Data Contraints, etc.
		CO3	Able to understand role of Relational algebra & Tuple/domain calculus.
		CO4	Able to build efficient Databases using Normalization
		CO5	Able to use SQL queries & Design programs using PL/SQL constructs.

P-2	Computer Networks	CO1	Recognize the technological trends of Computer Networking
		CO2	Discuss the key technological components of the Network
		CO3	Evaluate the challenges in building networks and solutions to those.

B.Com CAV Sem-1

BC VOC-105	Computer Fundamentals Logical Organizations	CO1	Students will exacerbate their knowledge by studying Evolution of computer, Basic components of a Digital Computer, Computer Classification
		CO2	They will study about Input Output Units, Video Standard, Printer and its types
		CO3	They will gain the knowledge about Memory, Storage Fundamentals, and Various Storage Devices
		CO4	They will expedite their knowledge by studying about Information Representation, Integer Representation, and Binary Arithmetic.
BC VOC-106	Business Data Processing & PC Software- 1	CO1	Demonstrate a basic understanding of computer hardware and software
		CO2	Demonstrate problem-solving skills
		CO3	Apply logical skills to programming in a variety of languages
		CO4	Utilize web technologies
		CO5	Present conclusions effectively, orally, and in writing

B.Com CAV Sem-2

BC VOC-205	Programming in C	CO1	The course is designed to provide complete knowledge of C language. Students will be able to develop logics which will help them to create programs, applications in C
		CO2	Also by learning the basic programming constructs they can easily switch over to any other language in future
		CO3	
BC VOC-206	Business Data Processing and PC Software-II	CO1	Demonstrate basic understanding of network principles
		CO2	Working effectively in teams
		CO3	Apply the skills that are the focus of this program to business scenarios

B.Com CAV Sem-3

BC VOC-305	Data Structure	CO1	Understand Strings, Arrays, Stacks and Linked Lists. Then Design and analyze simple algorithms.
		CO2	Defines the meaning of iterative and recursive algorithms
		CO3	Calculates the running time of iterative algorithms. Uses Big 'O' notation to express algorithmic running time
		CO4	Describes and analyzes elementary sorting algorithms such as Selection sort, Bubble sort, Insertion sort, and Shell sort.
BC VOC-306	Fundamentals of Database Management System	CO1	Differentiate between Data & information. Also know about File-based sys. & Database sys
		CO2	Understand architecture – 3 level data representation and data independence.

		CO3	Know data models including ER Model & be able to build a ER Model given a problem.
		CO4	Understand Relational Model – Keys & Data Constraints. Also compare RDBMS with Hierarchical & Network Model
		CO5	Understand RDBMS concepts – keys, Data Constraints, Normalization, etc.
		CO6	Able to use SQL queries & Design programs using PL/SQL constructs.

B.Com CAV Sem-4

BC VOC-405	Programming in Java	CO1	Use an integrated development environment to write, compile, run, and test simple object-oriented Java programs
		CO2	Read and make elementary modifications to Java programs that solve real-world problems
		CO3	Validate input in a Java program
		CO4	Identify and fix defects and common security issues in code
		CO5	Document a Java program using Javadoc
BC VOC-406	Advanced Computer Applications	CO1	Work effectively with a range of current, standard, Office Productivity software applications.
		CO2	Evaluate, select and use office productivity software appropriate to a given situation
		CO3	Apply basic adult learning and assessment principles in the design, development, and presentation of material produced by office productivity applications
		CO4	Operate a variety of advanced spreadsheet, operating system and word processing functions
		CO5	Solve a range of problems using office productivity applications, and adapt quickly to new software releases.

B.Com CAV Sem-5

BC VOC-505	Web Technology	CO1	Students are able to develop a dynamic webpage by the use of java script and Students will be able to connect a java program to a DBMS and perform insert
		CO2	Students will be able to write a well formed / valid XML document & DHTML
		CO3	Students will be able to write a server side java application called Servlet to catch update and delete operations on DBMS table form data sent from client, process it and store it on database.
BC-VOC-506	Systems Analysis & Design	CO1	Explain what systems are and how they are developed
		CO2	Identify and describe the phases of the systems development life cycle.
		CO3	Develop and evaluate system requirements.
		CO4	Work effectively in a team environment.

B.Com CAV Sem-6

BC VOC-605	Social Networking	CO1	Measure and prove ROI and marketing impact
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	and Data Analytics	CO2	Make better strategic and business decisions
		CO3	Track marketing teams' efficiency
		CO4	Compare your social media performance against competitors
BC VOC-606	Enterprise Resource Planning	CO1	Make basic use of Enterprise software, and its role in integrating business functions
		CO2	Analyze the strategic options for ERP identification and adoption
		CO3	Design the ERP implementation strategies
		CO4	Create reengineered business processes for successful ERP implementation

B.Com. Sem -1 (General)

BC-104	Computer Application in Business	CO1	Helps to understand basic of computer system including hardware's and software's.
		CO2	Students got familiar with internal processing of CPU and parts of CPU
		CO3	Course introduces the concept of programming languages and available open source software's
		CO4	Basics of networking allows students to get knowledge and concept of network connectivity
		CO5	Hands on practice on MS-word, Excel and PowerPoint builds student confidence in report writing and accounts maintaining.

B.A/ B.Sc. –I (Annual)

Level-1 (Computer Awareness)	Basic Computer Education	CO1	Students became familiar with computer hardware's and software's
		CO2	Be aware with the different operating systems and functionalities of the operating systems
		CO3	Got hand on practice on windows and controls, Microsoft word, excel and PowerPoint.
		CO4	Understands the ways to access internet and using email ids for communication
		CO5	This course brings confidence among students for working on Pc's, prepare them to cope up with the future demand of technology in routine life and make them skill & job oriented

Economics Department

Session: 2021-22

B.A. SEM. 1ST

Paper Code	Paper Name	Outcomes	
ECO - 101	MICROECONOMICS	CO1	The students came to know about the basics of microeconomics. How to use limited resources to get maximum satisfaction.
		CO2	They also learn about How Law of Demand and its Elasticity of demand.
		CO3	They learn new things about Utilities and Indifferences Curve Analysis.
		CO4	Get to know about Production Function and Cost concept with their Formulas.
		CO5	They study about the law of Supply and its Elasticity
		CO6	Learn new methods of Break-Even Analysis and also How markets work Individually.

B.A. SEM. 2ND

Paper Code	Paper Name	Outcomes	
ECO - 201	MICROECONOMICS	CO1	After going through this Unit, the learner will be able to: infer that microeconomics conceives of four types of market situations: perfect competition, monopoly, monopolistic competition and oligopoly
		CO2	Explain how price is determined in a perfectly competitive market and represent the same graphically.
		CO3	Recognise the implications of shift in demand, or in supply, or in both simultaneously as such shifts affect price and output. Represent the same graphically.
		CO4	They also study about actual market types which prevails in our economy
		CO5	Understand how product differentiation works in monopolistically competitive industries and how firms use advertising to differentiate their products, understanding impact on elasticity
		CO6	Is able to calculate and graphically illustrate where marginal revenue equals marginal costs; calculate and graphically illustrate profit and losses for a monopolistically competitive firm

B.A.SEM.3RD			
ECO - 301	MACROECONOMICS	CO1	The students came to know about the Macroeconomics and the Circular flow of Income in 4 Different Sectors.
		CO2	They learn different formulas to calculate National Income and How to measure it.
		CO3	Learn new theories of Classical and Keynesian Economist.
		CO4	Get to know about the Saving - Investment function, Consumption Function.
		CO5	Learn new terms APS, APC, MPS, MPC and their Formulas for calculation.
		CO6	They also learn about the Marginal Efficiency of Capital and its determinants and its measurement.
B.A.SEM.4TH			
ECO -401	MACROECONOMICS	CO1	The aim is to make students attuned with dynamics of income generation
		CO2	Understand that economic growth is a relatively recent phenomenon, and identify key institutional factors that contribute to economic growth.
		CO3	Objective is to acquaint the students with limitations of multiplier effect in underdeveloped economies.
		CO4	The students are expected to learn about key components in the supply of money, determinants and relationship of reserve money with overall money supply.
		CO5	Aims at making students learn about the inflation, its nature, theories related to the explanation of price rise. Students are expected to learn the inter-relationships among factors leading to inflation and its dynamics.
		CO6	Aim is to make the students apprised of fluctuations in business activity, nature, and causes and phases of business cycles.
B.A. SEM.5TH			
ECO - 502	INDIAN ECONOMY	CO1	In this semester Students learn about the problems of Indian Economy and different Economic Systems.
		CO2	They learn about why Indian Economy is seen as Underdeveloped economy, its reasons and how to overcome it.
		CO3	They study and learn on which basis an underdeveloped economy is compared with developed economy.

		CO4	It also studies the theory of Demographic Transition, population explosion and Occupational structure of Indian Economy.
		CO5	They also learn about the problems of unemployment, poverty and green revolution.
		CO6	Get to know about the Agriculture Credits, Its policy and Special Economic Zones - Merits and Demerits.

B.A.SEM.6TH

ECO - 602	INDIAN ECONOMY	CO1	Objective is to introduce the students to the basic concepts about Economic Growth & Economic development, under-development
		CO2	The content is meant to describe and discuss the approaches to economic development, its determinants
		CO3	The students are expected to be introduced to the concept of poverty, its measurement, as well as the nature of poverty process as self-cumulative.
		CO4	The students are expected to learn about development process under classical framework.
		CO5	Have perception about nature and process of poverty, measurement physical quality of life, Human development Index, Population growth pattern of developing economies: problems and policies
		CO6	They must be able to have perception about the key implications, and comparison of the

B.COM.SEM.1ST

BC - 102	MICROECONOMICS	CO1	The students came to know about the basics of microeconomics. How to use limited resources to get maximum satisfaction.
		CO2	They also learn about How Law of Demand works and its Determinants.
		CO3	They learn new things about Utilities and Indifferences Curve Analysis.
		CO4	Get to know about Production Function and Cost concept with their Formulas.
		CO5	They also learn about different types of markets -Perfect Competition, Monopoly, Monopolistic and oligopoly
		CO6	Learn new methods of Break-Even Analysis and also How markets work Individually.

B.COM.SEM.2ND			
BC - 201	MACROECONOMICS	CO1	The students came to know about the Macroeconomics and the Circular flow of Income in 4 Different Sectors.
		CO2	They learn different formulas to calculate National Income and How to measure it.
		CO3	Learn new theories of Classical and Keynesian Economist.
		CO4	Get to know about the Saving - Investment function, Consumption Function.
		CO5	Learn new terms APS, APC, MPS, MPC and their Formulas for calculation.
		CO6	They also learn about the Marginal Efficiency of Capital and its determinants and its measurement.

Paper code	Paper Name	Outcomes	
BA Sem-I			
EN 21	English Compulsory	CO1	Understand the writing style of various writers in essays.
		CO2	Improve the language skills i.e. Listening Skills, Speaking Skills, Reading Skills and Writing Skills (LSRW)
		CO3	Construct basic and intermediate skills in English language.
		CO4	Enhance comprehension skills, presentation skills, group discussion skills etc .
		CO5	Create literature sensibility and learn life skills through Literature and Language-II including stories
		CO6	Develop confidence for communicating in English and create interest for the life-long learning of English language
BA Sem-II			
EN 22	English Compulsory	CO1	Know the process of communication and its components.
		CO2	Improve the language skills i.e. Listening Skills, Speaking Skills, Reading Skills and Writing Skills (LSRW)
		CO3	Construct basic and intermediate skills in English language.
		CO4	Enhance comprehension skills, presentation skills, group discussion skills etc
		CO5	Create literature sensibility and learn life skills through Literature and Language-II including stories.
		CO6	Develop confidence for communicating in English and create interest for the life-long learning of English language

BA Sem-III			
EN 23	English Compulsory	CO1	Learn Grammar Skills
		CO2	Vocabulary Skills
		CO3	Improve spoken language skills
		CO4	Develop an understanding of literary devices and poetic forms.
		CO5	Create literature sensibility and learn life skills through Poetry appreciation and criticism.

		CO6	Develop confidence for communicating in English and create interest for the life-long learning of English language
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BA Sem-IV			
EN 24	English Compulsory	CO1	Learn Professional Spoken and Writing Skills
		CO2	Vocabulary Skills
		CO3	Improve spoken language skills
		CO4	Enhance comprehension skills, presentation skills, group discussion skills etc
		CO5	Understanding of genre of plays
		CO6	Create literature sensibility and learn life skills through one act plays
		CO7	Develop confidence for communicating in English and create interest for the life-long learning of English language

BA Sem-V			
EN 25	English Compulsory	CO1	Grammar Skills Understand nuances of Post-colonial Literature, novel and its types
		CO2	Spoken English Skills
		CO3	Improve the language skills through comprehension. Presentations and group discussion
		CO4	Create literature sensibility and learn life skills through Novel Kanthapura by Raja Rao.
		CO5	Develop confidence for communicating in English and create interest for the life-long learning of English language

BA Sem-VI			
EN 26	English Compulsory	CO1	1 Enhance comprehension skills, presentation skills, group discussion skills etc
		CO2	Enhance professional Writing skills
		CO3	Enhance Vocabulary Skills
		CO4	Understand the Genre of Play/Drama
		CO5	Create literature sensibility and learn life skills through Shakespeare Play The Merchant of Venice.
		CO6	Develop confidence for communicating in English and create interest for the life-long learning of English language

BCA SEM I			
BCA 115	Communicative English	CO1	Know the process of technical communication and its components.
		CO2	Improve the language skills i.e. Listening Skills, Speaking Skills, Reading Skills and Writing Skills (LSRW)
		CO3	Construct basic and intermediate skills in English language.
		CO4	Enhance comprehension skills, presentation skills, group discussion skills etc
		CO5	Create literature sensibility and learn life skills through Essays, Stories and one act play.
		CO6	Develop confidence for communicating in English and create interest for the life-long learning of English language
BCA SEM II			
BCA 126	Personality Development	CO1	Know the process of communication and its components.
		CO2	Improve the language skills i.e. Listening Skills, Speaking Skills, Reading Skills and Writing Skills (LSRW)
		CO3	Construct basic and intermediate skills in English language.
		CO4	Enhance comprehension skills, presentation skills, group discussion skills, Interpersonal Skills etc.
		CO5	Overall development of personality.
		CO6	Develop confidence for communicating in English and create interest for the life-long learning of English language.
BSC SEM I			
EN 21	English Compulsory	CO1	Learn Grammar Skills
		CO2	Vocabulary Skills
		CO3	Improve spoken language skills
		CO4	Develop an understanding of literary devices and poetic forms.
		CO5	Create literature sensibility and learn life skills through Poetry appreciation and criticism.
		CO6	Develop confidence for communicating in English and create interest for the life-long learning of English language

BSC SEM II			
EN 22	English Compulsory	CO1	Know the process of communication and its components.
		CO2	Improve the language skills i.e. Listening Skills, Speaking Skills, Reading Skills and Writing Skills (LSRW)
		CO3	Construct basic and intermediate skills in English language.
		CO4	Enhance comprehension skills, presentation skills, group discussion skills etc
		CO5	Create literature sensibility and learn life skills by reading essays written by renowned authors
		CO6	Develop confidence for communicating in English and create interest for the life-long learning of English language

B.Sc. Fashion Designing 2021-22

Paper code	Paper Name	Outcomes	
B.Sc Fashion Designing Sem 1			
101	Basic of design and illustration	CO1	Understand basics of rendering and basics of sketching, learns the basics of heads figure doodle, stick figure.
		CO2	Understand different types of medium and knowledge of color schemes.
		CO3	Also aware of fashion figure with garments using elements of design and principle of design.
102	Basic of Sewing	CO1	Understand the basics of hand stitches and machine seams
		CO2	Understand the knowledge of ruffles, flounce, collars, sleeves necklines etc.
		CO3	Be aware the maintenance and parts of sewing machine.
		CO4	Learns to take measurement and knowledge of different sizes.
103	Traditional textiles	CO1	Learn the different state of embroideries and basic embroidery stitches.
		CO2	Understand the fabric, color, thread and stitches use traditionally and ongoing trends
		CO3	Also learns the colored, painted, woven and printed textiles

Subject wise outcomes

Paper code	Paper Name	Outcomes	
B.Sc. Fashion Designing Sem 2			
106	Textile chemistry I	CO1	Understand the knowledge of fiber
		CO2	Learns processing of yarn construction
107	Concept of fashion	CO1	Learn about clothing terms
		CO2	Knowledge of international and national designers
		CO3	Also understand the fashion terms
108	Fabric construction	CO1	Know about the formation of fabric.
		CO2	Understand the basic weaves and their construction method
		CO3	Understand the looms types, motion of weaving concept
109	Garment Construction	CO1	Understand the preparation of fabric, sewing machine types.
		CO2	Learn about sewing techniques, terms of pattern making

Paper code	Paper Name	Outcomes	
B.Sc. Fashion Designing Sem 3			
202	Pattern Making- I	CO1	Understand the knowledge of pattern making terms and tools
		CO2	Understand the basic knowledge of taking measurement and dress form parts
		CO3	Learn estimation of fabric calculation and good fitting.
204	Knitting Technology	CO1	Learn about clothing components
		CO2	Understand the knowledge of different costumes, jewelry, textiles, footwear of different period.
		CO3	Able to create different costumes

Paper code	Paper Name	Outcomes	
B.Sc. Fashion Designing Sem 4			
206	Textile chemistry II	CO1	Understand the knowledge of dyeing
		CO2	Learns processing of different types of printing
208	History of Indian Costumes	CO1	Learn about clothing components
		CO2	Understand the knowledge of different costumes, jewelry, textiles, footwear of different period.
		CO3	Able to create different costumes

Paper code	Paper Name	Outcomes	
B.Sc. Fashion Designing Sem 5			
301	History of world costume	CO1	Learn about clothing components of men and women
		CO2	Understand the knowledge of different costumes, jewelry, textiles, footwear of different period.
		CO3	Able to create different costumes
302	Apparel Manufacturing Technology	CO1	Understand the basic knowledge of Departments
		CO2	Understand about apparel industry and how it works
		CO3	Learn about special purpose machine

Paper code	Paper Name	Outcomes	
B.Sc. Fashion Designing Sem 6			
306	Marketing and merchandising	CO1	Enhance the knowledge of merchandising, retailing.
		CO2	Understand the basic knowledge of high fashion and
		CO3	fashion forecast and trends
		CO4	Be aware of fashion market and how to launch the fashion product in market.

Paper code	Paper Name	Outcomes	
BA Sem-I			
Paper A	Advertising Foundation (Theory)	CO1	Understanding in Basic knowledge of art in the beginning.
		CO2	Detailed study of drawing in art.
		CO3	Introducing the basics of commercial art.
		CO4	Introducing the art material used in commercial art
		CO5	Analyze the basics of art aesthetics.
Paper-B Section-A	Still Life (Practical)	CO1	Create a Drawing by focusing an object
		CO2	Able to concentrate on the different angles on still objects
		CO3	Observing the small details of objects.
		CO4	Become confident in attempting something new in their drawings
		CO5	Ability to look at the finer details through light and shade via colours or pencils.
Paper-B Section-B	Graphic Design (Practical)	CO1	Create an official stationery for any organization or any institution
		CO2	Basic knowledge of standard size of stationary paper
		CO3	Understanding of content mention in official document
		CO4	Creative designing includes watermarks
		CO5	Use of colour according to printing methods.
Paper-B Section-C	Layout (Practical)	CO1	Design a layout including their elements
		CO2	Creative harmonious design in illustration and typography
		CO3	Helping the reader to grasp the essence of the idea
		CO4	Focus on the main concept of ad
		CO5	Able to communicate the viewer via creative slogan and illustration

Paper code	Paper Name	Outcomes	
BA Sem-II			
Paper A	Advertising Foundation (Theory)	CO1	Understanding of colours and colour theory
		CO2	Detailed explanation of advertising with reference to design
		CO3	Identification of a product or company through pictures, logos, symbol etc.
		CO4	Able to design the structural process of an advertisement through creative thinking.
		CO5	Able to Perform the steps from Visualization to final artwork
Paper-B Section-A	Still Life (Practical)	CO1	Create a Drawing by focusing an object
		CO2	Able to concentrate on the different angles on still objects
		CO3	Observing the small details of objects.
		CO4	Become confident in attempting something new in their drawings
		CO5	Ability to look at the finer details through light and shade via colours or pencils.
Paper-B Section-B	Graphic Design (Practical)	CO1	Create an official stationery for any organization or any institution
		CO2	Basic knowledge of standard size of stationary paper
		CO3	Understanding of content mention in official document
		CO4	Creative designing includes watermarks
		CO5	Use of colour according to printing methods.
Paper-B Section-C	Layout (Practical)	CO1	Design a layout including their elements
		CO2	Creative harmonious design in illustration and typography
		CO3	Helping the reader to grasp the essence of the idea
		CO4	Focus on the main concept of ad
		CO5	Able to communicate the viewer via creative slogan and illustration

Paper code	Paper Name	Outcomes	
BA Sem- 3rd			
Paper A	Advertising Foundation (Theory)	CO1	Knowledge about the history of printing
		CO2	Understanding of methods in printing
		CO3	Update knowledge about latest technology
		CO4	Formulate the design of typography in copy formats
		CO5	Understanding of printing methods and technology in detail
Paper-B Section-A	Illustration (Practical)	CO1	Motivate student to learn a specific topic on the social issues
		CO2	Capture a moving audience with a message with strong illustration
		CO3	Learn to execute an illustration which is visually appealing and interesting
		CO4	Learning of colour scheme which is best suited for the topic.
		CO5	Understanding of poster size, shape and its elements
Paper-B Section-B	Layout (Practical)	CO1	Create an imaginary composition on the basis of given theme
		CO2	Use of multiple colour combination
		CO3	Arrangement of figures according to theme
		CO4	Build strong imagination
		CO5	Improve drawing skills
Paper-B Section-C	Poster (Practical)	CO1	Design a layout including their elements
		CO2	Creative harmonious design in illustration and typography
		CO3	Helping the reader to grasp the essence of the idea
		CO4	Focus on the main concept of ad
		CO5	Able to communicate the viewer via creative slogan and illustration

Paper code	Paper Name	Outcomes	
BA Sem-4th			
Paper A	Advertising Foundation (Theory)	CO1	Understanding the meaning of advertising and its history
		CO2	Understanding of different functions of advertising
		CO3	Representation of a brand in a series with same idea with campaign
		CO4	Descriptive knowledge of photography with the help of camera
		CO5	Able to perform an ad design and launch a brand in the market.
Paper-B Section-A	Illustration (Practical)	CO1	Motivate student to learn a specific topic on the social issues
		CO2	Capture a moving audience with a message with strong illustration
		CO3	Learn to execute an illustration which is visually appealing and interesting
		CO4	Learning of colour scheme which is best suited for the topic.
		CO5	Understanding of poster size, shape and its elements
Paper-B Section-B	Layout (Practical)	CO1	Create an imaginary composition on the basis of given theme
		CO2	Use of multiple colour combination
		CO3	Arrangement of figures according to theme
		CO4	Build strong imagination
		CO5	Improve drawing skills
Paper-B Section-C	Poster (Practical)	CO1	Design a layout including their elements
		CO2	Creative harmonious design in illustration and typography
		CO3	Helping the reader to grasp the essence of the idea
		CO4	Focus on the main concept of ad
		CO5	Able to communicate the viewer via creative slogan and illustration

Paper code	Paper Name	Outcomes	
BA Sem-5th			
Paper A	Advertising Foundation (Theory)	CO1	Knowledge of various types of media used in advertising
		CO2	Knowledge of Outdoor and Indoor media
		CO3	Explanation of print media used in daily life
		CO4	Latest software used in company to create advertisement
		CO5	Able to work in the market with efficient knowledge of software's
Paper-B Section-A	Illustration (Practical)	CO1	Create an imaginary composition on the basis of given theme
		CO2	Use of multiple colour combination
		CO3	Arrangement of figures according to theme
		CO4	Build strong imagination
		CO5	Improve drawing skills
Paper-B Section-B	Layout (Practical)	CO1	Design a layout including their elements
		CO2	Creative harmonious design in illustration and typography
		CO3	Helping the reader to grasp the essence of the idea
		CO4	Focus on the main concept of ad
		CO5	Able to communicate the viewer via creative slogan and illustration
Paper-B Section-C	Poster (Practical)	CO1	Motivate student to learn a specific topic on the social issues
		CO2	Capture a moving audience with a message with strong illustration
		CO3	Learn to execute an illustration which is visually appealing and interesting
		CO4	Learning of colour scheme which is best suited for the topic.
		CO5	Understanding of poster size, shape and its elements

Paper code	Paper Name	Outcomes	
BA Sem-6th			
Paper A	Advertising Foundation (Theory)	CO1	Basic knowledge of marketing in the context of advertising
		CO2	Analysing the nature of market with presenting the product in the right place
		CO3	Representation of a brand in a series with same idea with campaign
		CO4	Comparing the types of agencies in detail
		CO5	Future Awareness in the career of commercial art
Paper-B Section-A	Illustration (Practical)	CO1	Create an imaginary composition on the basis of given theme
		CO2	Use of multiple colour combination
		CO3	Arrangement of figures according to theme
		CO4	Build strong imagination
		CO5	Improve drawing skills
Paper-B Section-B	Layout (Practical)	CO1	Design a layout including their elements
		CO2	Creative harmonious design in illustration and typography
		CO3	Helping the reader to grasp the essence of the idea
		CO4	Focus on the main concept of ad
		CO5	Able to communicate the viewer via creative slogan and illustration
Paper-B Section-C	Poster (Practical)	CO1	Motivate student to learn a specific topic on the social issues
		CO2	Capture a moving audience with a message with strong illustration
		CO3	Learn to execute an illustration which is visually appealing and interesting
		CO4	Learning of colour scheme which is best suited for the topic.
		CO5	Understanding of poster size, shape and its elements

Subject Outcomes

Paper Code	Paper Name	Outcome
MA Fine Arts –(Painting) Sem-1		
Paper I (Theory)	History of Modern Western Art	<ul style="list-style-type: none"> • Trace the development of Modern Western art from the 18th century to 20th century. • Develop a critical understanding of western Art Movements and its relevance and impact on art. • Critical understanding of the art work of some of the seminal/prominent artists and their contributions to modern art. • Develop a critical understanding of History of Western Art and its relevance and impact on art.
Paper II (Theory)	Philosophy of Art	<ul style="list-style-type: none"> • Introduction and effective knowledge of art and aesthetics, for carrier development/ art appreciation. • Critical understanding of Indian Vedic Philosophy and Literature and its relevance to art. • To develop a keen insight into the contribution of Indian Philosophy in development of art in India. • Develop a critical understanding of Indian philosophy of art and aesthetics and its relevance to Indian art.
Paper III (Practical)	Portrait and Life study	<ul style="list-style-type: none"> • Study of figure from life and its transformation into composition.
Paper IV (Practical)	Creative Composition	<p>Advancement of previous experience towards a complete pictorial interpretation, theme and expression of mood, symbolism, dramatization, distortion for emotional effect including abstract expressionism projects with emphasis on independent creative work.</p> <p>a) Advanced Drawing</p> <ul style="list-style-type: none"> • Exploration of an individual approach to drawing as an aesthetic exercise of visual sign and symbol and locate your practice in the broader context of contemporary art • Exercise of different drawing techniques of traditional and contemporary masters Exercise on application of different mediums both traditional and contemporary as a drawing tool • Medium: pencil, charcoal, pastel, pen and ink, water color Acrylic and oil, photocopy, impression, stencil, etc. <p>b) Composition</p> <ul style="list-style-type: none"> • Identify and synthesis the connection between process and concept in reference to collage/collision • Exercise with different methods and traditions of representation of space, form and color in reference to history and visual culture • Medium: Develop, test and employ materials, process and mediums in a way that activates your ideas and concepts
MA Fine Arts –(Painting) Sem-2		
Paper I	History of	<ul style="list-style-type: none"> • Trace the development of Modern Western art from the

(Theory)	Modern Western Art	<p>18th century to 20th century.</p> <ul style="list-style-type: none"> • Develop a critical understanding of western Art Movements and its relevance and impact on art. • Critical understanding of the art work of some of the seminal/prominent artists and their contributions to modern art. • Develop a critical understanding of History of Western Art and its relevance and impact on art.
Paper II (Theory)	Philosophy of Art	<ul style="list-style-type: none"> • Introduction and effective knowledge of art and aesthetics, for carrier development/ art appreciation. • Critical understanding of Indian Vedic Philosophy and Literature and its relevance to art. • To develop a keen insight into the contribution of Indian Philosophy in development of art in India. • Develop a critical understanding of Indian philosophy of art and aesthetics and its relevance to Indian art.
Paper III (Practical)	Portrait and Life study	<ul style="list-style-type: none"> • Study of figure from life and its transformation into composition.
Paper IV (Practical)	Creative Composition	<p>Advancement of previous experience towards a complete pictorial interpretation, theme and expression of mood, symbolism, dramatization, distortion for emotional effect including abstract expressionism projects with emphasis on independent creative work.</p> <p>a) Advanced Drawing</p> <ul style="list-style-type: none"> • Exploration of an individual approach to drawing as an aesthetic exercise of visual sign and symbol and locate your practice in the broader context of contemporary art • Exercise of different drawing techniques of traditional and contemporary masters Exercise on application of different mediums both traditional and contemporary as a drawing tool • Medium: pencil, charcoal, pastel, pen and ink, water color Acrylic and oil, photocopy, impression, stencil, etc. <p>b) Composition</p> <ul style="list-style-type: none"> • Identify and synthesis the connection between process and concept in reference to collage/collision • Exercise with different methods and traditions of representation of space, form and color in reference to history and visual culture • Medium: Develop, test and employ materials, process and mediums in a way that activates your ideas and concepts •
MA Fine Arts –(Painting) Sem-3		
Paper I (Theory)	History of Modern Indian Art	<ul style="list-style-type: none"> • To identify the issues and challenges of modernism and nationalism in the Indian context. • Effective knowledge of Visual arts, for carrier development • Critical understanding of various modern art movements, art groups of India. • To develop a keen insight into the contribution of movements and artists in shaping modern art in India.
Paper II	Dissertation	<ul style="list-style-type: none"> • A critical and analytical aspect of Painting, Applied Arts,

		<p>Sculpture, Graphics (Print Making) etc.</p> <ul style="list-style-type: none"> • A critical and analytical aspect of History of Art. • Folk, Tribal Art and Popular form of Art. • Concept of Aesthetics or Philosophy. • Contemporary Artists. • New trends in Contemporary Art. • Any other new relevant topic including experimentation etc.
Paper III (Practical)	Life Study	<ul style="list-style-type: none"> • Study of figure from life and its transformation into composition.
Paper IV (Practical)	Creative Composition	<p>Advancement of previous experience towards a complete pictorial interpretation, theme and expression of mood, symbolism, dramatization, distortion for emotional effect including abstract expressionism projects with emphasis on independent creative work.</p> <p>a) Advanced Drawing</p> <ul style="list-style-type: none"> • Exploration of an individual approach to drawing as an aesthetic exercise of visual sign and symbol and locate your practice in the broader context of contemporary art • Exercise of different drawing techniques of traditional and contemporary masters Exercise on application of different mediums both traditional and contemporary as a drawing tool • Medium: pencil, charcoal, pastel, pen and ink, water color Acrylic and oil, photocopy, impression, stencil, etc. <p>b) Composition</p> <ul style="list-style-type: none"> • Identify and synthesis the connection between process and concept in reference to collage/collision • Exercise with different methods and traditions of representation of space, form and color in reference to history and visual culture • Medium: Develop, test and employ materials, process and mediums in a way that activates your ideas and concepts

MA Fine Arts –(Painting) Sem-4

Paper I (Theory)	History of Modern Indian Art	<ul style="list-style-type: none"> • To identify the issues and challenges of modernism and nationalism in the Indian context. • Effective knowledge of Visual arts, for carrier development • Critical understanding of various modern art movements, art groups of India. • To develop a keen insight into the contribution of movements and artists in shaping modern art in India.
Paper II	Dissertation	<ul style="list-style-type: none"> • A critical and analytical aspect of Painting, Applied Arts, Sculpture, Graphics (Print Making) etc. • A critical and analytical aspect of History of Art. • Folk, Tribal Art and Popular form of Art. • Concept of Aesthetics or Philosophy. • Contemporary Artists. • New trends in Contemporary Art. • Any other new relevant topic including experimentation etc.
Paper III (Practical)	Life Study	<ul style="list-style-type: none"> • Study of figure from life and its transformation into composition.
Paper IV (Practical)	Creative Composition	<p>Advancement of previous experience towards a complete pictorial interpretation, theme and expression of mood, symbolism, dramatization, distortion for emotional effect including abstract expressionism projects with emphasis on independent creative work.</p>

		<p>a) Advanced Drawing</p> <ul style="list-style-type: none"> • Exploration of an individual approach to drawing as an aesthetic exercise of visual sign and symbol and locate your practice in the broader context of contemporary art • Exercise of different drawing techniques of traditional and contemporary masters Exercise on application of different mediums both traditional and contemporary as a drawing tool • Medium: pencil, charcoal, pastel, pen and ink, water color Acrylic and oil, photocopy, impression, stencil, etc. <p>b) Composition</p> <ul style="list-style-type: none"> • Identify and synthesis the connection between process and concept in reference to collage/collision • Exercise with different methods and traditions of representation of space, form and color in reference to history and visual culture • Medium: Develop, test and employ materials, process and mediums in a way that activates your ideas and concepts

पाठ्यक्रम के परिणाम: सत्र (2021–22)

विषम सेमेस्टर

बी. ए. प्रथम वर्ष (सेमेस्टर 1)

पेपर कोड	पेपर का नाम		पाठ्यक्रम के परिणाम
HI-21	हिन्दी अनिवार्य	CO-1	विद्यार्थियों में भाषा कौशल का विकास।
		CO-2	भाषा के शुद्ध उच्चारण में समर्थ बनाना।
		CO-3	विद्यार्थियों को मानव मूल्यों का ज्ञान देना।

बी. ए. द्वितीय वर्ष (सेमेस्टर 3)

HI-23	हिन्दी अनिवार्य	CO-1	साहित्य के माध्यम से बदलते समय व समाज के अनुसार छात्राओं को सशक्त, स्वाभिमानी, आत्मनिर्भर व जागरूक बनाना।
		CO-2	इतिहास के माध्यम से अपनी सभ्यता व संस्कृति का बोध कराना।
		CO-3	हिन्दी भाषा, बोलियों और व्याकरण का ज्ञान।

बी. ए. तृतीय वर्ष (सेमेस्टर 5)

HI-25	हिन्दी अनिवार्य	CO-1	लोकमंगल, भावनात्मक एकता एवं सांस्कृतिक परम्परा से छात्राओं को जोड़ना।
		CO-2	पाठ्य रचनाओं के सन्दर्भ में समीक्षा की क्षमता विकसित करना।

पाठ्यक्रम के परिणाम: सत्र (2021–22)

सम सेमेस्टर

बी. ए. प्रथम वर्ष (सेमेस्टर 2)

पेपर कोड	पेपर का नाम		पाठ्यक्रम के परिणाम
HI-22	हिन्दी अनिवार्य	CO-1	साहित्य के माध्यम से बदलते समय व समाज के अनुसार छात्राओं को सशक्त, स्वाभिमानि, आत्मनिर्भर व जागरूक बनाना।
		CO-2	इतिहास के माध्यम से अपनी सभ्यता व संस्कृति का बोध कराना।
		CO-3	हिन्दी भाषा, बोलियों और व्याकरण का ज्ञान।

बी. ए. द्वितीय वर्ष (सेमेस्टर 4)

HI-24	हिन्दी अनिवार्य	CO-1	हिन्दी के कथा जगत का परिचय।
		CO-2	छात्राओं को साहित्यिक, सामाजिक संस्कार देकर राष्ट्र के जिम्मेदार नागरिक बनने के योग्य बनाना।
		CO-3	साहित्य की विविध विधाओं का बोध कराना व छात्राओं में लेखन क्षमता विकसित करना।

बी. ए. तृतीय वर्ष (सेमेस्टर 6)

HI-26	हिन्दी अनिवार्य	CO-1	समकालीन हिन्दी कविता का परिचय।
		CO-2	आधुनिक हिन्दी काव्य की प्रमुख प्रवृत्तियों का अध्ययन।

पाठ्यक्रम के परिणाम: सत्र (2021–22)

बी. एस. सी. द्वितीय वर्ष (सेमेस्टर 3)

पेपर कोड	पेपर का नाम		पाठ्यक्रम के परिणाम
HI-23	हिन्दी अनिवार्य	CO-1	भाषा कौशल को विकसित करना।
		CO-2	लेखन क्षमता विकसित करना।
		CO-3	रोजगार प्राप्ति के अवसरों के अनुकूल बनाना।

पाठ्यक्रम के परिणाम: सत्र (2021–22)

बी. एस. सी. तृतीय वर्ष (सेमेस्टर 4)

पेपर कोड	पेपर का नाम		पाठ्यक्रम के परिणाम
HI-24	हिन्दी अनिवार्य	CO-1	भाषा का व्यावहारिक ज्ञान देना।
		CO-2	साहित्य के माध्यम से बदलते समय व समाज के अनुसार छात्राओं को सशक्त, स्वाभिमानी, आत्मनिर्भर व जागरूक बनाना।
		CO-3	छात्राओं का बौद्धिक व मानसिक विकास करना।

पाठ्यक्रम के परिणाम: सत्र (2021–22)
एम. ए. हिन्दी, प्रथम वर्ष (सेमेस्टर 1)

पेपर कोड	पेपर का नाम		पाठ्यक्रम के परिणाम
MHIN-106	भाषा विज्ञान एवं हिन्दी भाषा	CO-1	विद्यार्थियों में भाषा कौशल का विकास करना।
MHIN-107	हिन्दी साहित्य का इतिहास	CO-2	इतिहास के माध्यम से अपनी सभ्यता व संस्कृति का बोध कराना।
MHIN-108	आधुनिक गद्य साहित्य	CO-3	साहित्य के माध्यम से छात्रों को सशक्त, स्वाभिमानी व जागरूक बनाना।
MHIN-109	आधुनिक हिन्दी काव्य	CO-4	आधुनिक हिन्दी काव्य के माध्यम से छात्रों को सामाजिक यथार्थवाद से परिचित कराना।
MHIN-110 (Opt-vii)	हरियाणवी भाषा और साहित्य	CO-5	छात्रों को हरियाणवी संस्कृति, लोक परम्पराओं व लोकगीतों से अवगत कराना।

पाठ्यक्रम के परिणाम: सत्र (2021–22)

एम. ए. हिन्दी, प्रथम वर्ष (सेमेस्टर 2)

पेपर कोड	पेपर का नाम		पाठ्यक्रम के परिणाम
MHIN-106	भाषा विज्ञान एवं हिन्दी भाषा	CO-1	भाषा के शुद्ध उच्चारण में समर्थ बनाना व सम्प्रेषण की कला विकसित करना।
MHIN-107	हिन्दी साहित्य का इतिहास	CO-2	लोकमंगल, भावनात्मक एकता एवं सांस्कृतिक परम्परा से छात्राओं को जोड़ना।
MHIN-108	आधुनिक गद्य साहित्य	CO-3	छात्राओं में साहित्य की विविध विधाओं के प्रति रुचि जागृत करना।
MHIN-109	आधुनिक हिन्दी काव्य	CO-4	विभिन्न साहित्यकारों व कवियों के अनुभवों के माध्यम से मानसिक परिपक्वता का विकास करना।
MHIN-110 (Opt-vii)	हरियाणवी भाषा और साहित्य	CO-5	हरियाणवी रचनाकारों व उनकी रचनाओं से अवगत कराना।

2021-22 (Even Semester)

Paper Code	Paper Name		Outcomes
B.A.-I Sem.-II			
HR-22 (i)	History of India (600 AD to 1500 AD)	CO1	Learn about the Social, Economic, Political, Cultural change with special reference of Indian Feudalism
		CO2	Delhi Sultanate and Expansion formation of ruling class and his administration
		CO3	Learn about the Decline of Delhi Sultanate
		CO4	Trade and Commerce, craft especially new technology that come with Mughal and Turkish
B.A.-II Sem.-IV			
HR-24 (i)	Indian National Movement	CO1	This paper is covered for Civil Services and allied services examination.
		CO2	To acquaints the students various aspects related to Formation of Congress
		CO3	Learn about the administration with Act of 1909, 1919,1935 during the British Rule.
		CO4	To learn about the various National Movements throughout 1947
B.A.-III Sem.-VI			
HR-26 (ii)	Modern Europe	CO1	To understand change of Europe after French Revolution
		CO2	To Learn about the Vienna Congress and Napoleon Phase
		CO3	To understand the unification of Italy and Germany
		CO4	To understand how to occur World War-I & II and his consequences

2021-22 (Odd Semester)

Paper Code	Paper Name		Outcomes
B.A.-I Sem.-I			
HR-21 (i)	History of India (Earliest Time to Gupta Age)	CO1	Students are able to understand the development of History and sources of History
		CO2	To explain aim and Objective of History
		CO3	Learn about the Old Civilization and Stone age.
		CO4	Learn about the Early Stage of Human.
B.A.-II Sem.-III			
HR-23 (i)	Political History of India (1500 AD to 1857 AD)	CO1	To learn the political ideas and institutions of Mughal State
		CO2	Mughal Emperor with Special policy of Akbar & Aurengzeb
		CO3	Learn about the European Trade and India become a colony.
		CO4	To learn about the First War of Independence and Causes, impact and failure
B.A.-III Sem.-V			
HR-25 (ii)	Rise of Modern World	CO1	The Historical tendencies of west i.e. Rehaissance, Religious Reform Movements, Merchant Revolution, Scientific Revolution
		CO2	To understand how these historical tendencies transformed the Europeans Society
		CO3	Industrial Revolution & Agriculture Revolution is a big change of Europe.
		CO4	To understand the European Society

Home Science (2021-22) Odd Semester

B.A. Sem-I			
Paper Code	Paper Name		Outcome
HS 21	Family Resource Management	CO-1	Better implementation of time, energy and money.
		CO-2	Job opportunities in Home Science field.
		CO-3	Interior decoration ideas of implementation.
		CO-4	Decoration of Earthen pots.
		CO-5	Importance of table manners of table setting.
B.A. Sem-III			
HS 23	Physiology	CO-1	Knowledge about Body mechanism through psychology.
		CO-2	Repair and care of sewing machine at home.
		CO-3	Learning basic stitches, seams, process, embroidery, knitting, tie and dye.
B.A. Sem-V			
HS 25	Food and Nutrition	CO-1	Importance of nutrition especially in present scenario.
		CO-2	Planning and preparing diets for various age groups of invalid diets for patients.

Home Science (2021-22) Even Semester

B.A. Sem-II			
Paper Code	Paper Name		Outcome
HS 22	Health and Hygiene	CO-1	Importance of hygiene for better health.
		CO-2	Learning about mode of spread of various diseases and precautions to be taken to avoid them.
		CO-3	Importance of immunity in present scenario.
		CO-4	Cleaning of polishing of household articles.
B.A. Sem-IV			
HS 24	Clothing and Textile	CO-1	Drafting and Stitching of garments at home.
		CO-2	Learning about tradition textiles.
		CO-3	Various soap of detergent for different fabrics.
		CO-4	Finishing of fabric at home.
B.A. Sem-VI			
HS 26	Human Development	CO-1	Understanding Child Psychology.
		CO-2	Developing learning skills, personality traits, role of play in childhood.
		CO-3	Common ailments of children.
		CO-4	Care of pregnant women.
		CO-5	Cooking using different methods, preservation of vegetable and fruits in the form of jams, pickles etc.
		CO-6	Fancy cooking.

Mathematics Subject Outcomes

Paper Code	Paper Name , Teacher Name		Outcome
BSc./B.A. Sem-1			
BM-111	Algebra	CO1	Use of algebraic methods help students to solve a variety of problems.
		CO2	Determine rank of a matrix, eigen values, eigen vectors, characteristic equation and characteristic polynomial of square matrices. Understand unitary and orthogonal matrices and to solve related problems
		CO3	It helps them to recognize consistent and inconsistent system of linear equations by the row echelon form of the augmented matrix, using rank
		CO4	Through this course they can find eigen values and corresponding eigen vectors for a square matrix.
		CO5	Understand transformation of equations and methods to solve cubic, biquadratic equations
BM-112	Calculus	CO1	Calculus is the study of how things change. Students can understand modeling systems in which there is change and it also provides a way to deduce the predictions of such models.
		CO2	Students can solve various mathematical problem, where there is change.
		CO3	It also provides a way to the students to construct relatively simple quantitative models of change, and to deduce their consequences.
		CO4	Understand concepts of tangents, normals, asymptotes, curvature, evolutes and involutes of a curve, the geometrical meanings of these terms and can solve related problems
		CO5	Determine singular points of a curve and their types. To understand rectification of curves and to apply the reduction formulae
		CO6	Determine area bounded by curves and volumes and surface area of solids formed by revolution of curves
BM-113	Solid Geometry	CO1	Through this subject, students gain complete knowledge of 3-dimensional figures like sphere, cone, enveloping cone, cylinder, right circular cylinder, enveloping cylinder and prove their results.
		CO2	With the help of solid geometry, students can identify different conicoids and sketch them.

		CO3	It provides a way to find out equations of tangent plane, polar plane, normal plane, radical plane.
		CO4	Students come to know about different terms clearly such as pole, polar, confocal conics etc.
		CO5	Understand relationship between coordinate systems and plot the curve in spherical, cylindrical polar coordinates.
BSc./B.A. Sem-II			
BM-121	Number theory and trigonometry	CO1	Analyze Divisibility ,GCD , LCM and Prime numbers and their Properties
		CO2	Prove Fundamental theorem of divisibility and Unique factorization theorem .
		CO3	Identify Perfect numbers, Mersenne numbers ,Fermat numbers ,Gauss function , Mobius function ,Euler's function and prove their Properties .
		CO4	Analyze Congruences ,Complete residue system , Reduced residue system and their Properties.
		CO5	Solve indeterminate equation , Linear congruence in one unknown and two unknown.
		CO6	Understand Chinese theorem and its applications.
BM-122	Ordinary differential equations	CO1	This course will enable the students to learn various techniques of getting exact solutions of first order differential equations and linear differential equations of higher order
		CO2	Develop the skills of solving homogeneous and non-homogeneous second order linear ordinary differential equations with constant coefficients and with variable coefficients
		CO3	Student will be able to formulate mathematical models in the form of ordinary differential equations to suggest possible solutions of the day to day problems
		CO4	Understand total differential equations and their solutions.
BM-123	Vector Calculus	CO1	Students through this subject learn to visualize and manipulate multivariable and vector valued functions presented in graphical, numeric, and symbolic form
		CO2	They also learn to graph, differentiate, integrate, and solve applied problems involving parametric equations and vector-valued functions.
		CO3	Understand and solve problems related to scalar and vector product of vectors. Learn vector differentiation and directional derivatives and their problem solving
		CO4	Understand gradient, divergence and curl operators. Apply knowledge and these tools in problem solving.

		CO5	Understand vector identities, Laplacian operator. Learn vector integration and line integral and solve problems using these concepts.
		CO6	Learn surface and volume integral formulations and their evaluation. Prove Gauss Divergence, Green's and Stoke's theorems and understand importance of these theorems.
BSc./B.A. Sem-III			
BM-231	Advanced Calculus	CO1	The study of advance calculus enables to understand theoretical and geometrical concepts of Rolle's theorem, mean value theorem and various indeterminate forms.
		CO2	Understand differentiability of real valued functions of two variables and to prove associated results. To determine maximum and minimum of functions of two variables and to apply multivariable calculus in optimization problems.
		CO3	It also provides knowledge of concepts of limit and continuity, partial derivatives of functions of two or more variables and problems based on maxima, minima.
		CO4	This course also includes study of curves in space, concepts of surface and envelops etc.
BM-232	Partial Differential Equations	CO1	This course focuses on providing understanding basics of partial differential equations with their physical significance.
		CO2	It provides methodologies to solve linear and non linear partial differential equations of first and second order.
		CO3	Applications like solutions of heat, wave and Laplace equations are also explained.
		CO4	Apply a range of techniques to find solutions of standard partial differential equations.
		CO5	Understand basic properties of standard partial differential equations.
BM-233	Statics	CO1	This course provides a base for the applied mathematics which deals with study of composition and resolution of forces, their moments and couples.
		CO2	It also enables the understanding of analytic conditions of equilibrium of coplanar forces, centre of gravity and concept of virtual work.
		CO3	This paper also explains the mathematics of wrenches along with stable and unstable equilibrium.
		CO4	Understand the concept of force and Newton's law of motion.

		CO5	It also enables to understand about equilibrium ,stable, unstable and neutral equilibrium
BSc./B.A. Sem-IV			
BM-241	Sequence and Series	CO1	Students will able to Define different types of sequence
		CO2	Discuss the behaviour of the geometric sequence.
		CO3	Prove properties of convergent and divergent sequence
		CO4	Verify the given sequence in convergent and divergent by using behaviour of Monotonic sequence
		CO5	Prove Cauchy's first limit theorem, Cauchy's Second limit theorem.Explain subsequences and upper and lower limits of a sequence.
		CO6	Prove theorems on different test of convergence and divergence of a series of positive terms and Verify the given series is convergent or divergent by using different test.
BM-242	Special Functions and integral transforms	CO1	This course includes study of Bessel's, Legendre's and Hermite's differential equations and understanding recurrences relations of their generating functions.
		CO2	Understand singular points of a differential equation and to solve such differential equation by power series method
		CO3	Familiarise with Legendre's and Hermite's differential equation and its solution in the form of Legendre functions and Hermite's functions. Understand recurrence relations, generating function and orthogonality of Legendres function and Hermite function, Rodrigues' formula.
		CO4	It also provides the study of two important tools- Fourier and Laplace transforms and their applications in solving various differential equations.
		CO5	Develop skill of applying Fourier transforms to solve differential equations.
BM-243	Programming in C and Numerical Methods	CO1	Through this subject, student will be able to learn basics of C language including various input output functions, various loops, conditional statements and arrays.
		CO2	Programs are based on various numerical methods which include the study of solution of linear equation, interpolation and extrapolation, integrals and differential equations using various numerical techniques.
		CO3	This program helps in solving many practical problems where analytical solution does not exist.

		CO4	This course is aimed at advancing concepts of programming and software code organization within the framework of structural paradigms.
		CO5	Focusing on discussing how to write a program of moderate complexity by using C language.
BSc./B.A. Sem-V			
BM-351	Real Analysis	CO1	Real Analysis is the branch of mathematical analysis that studies the behavior of real numbers, sequences and series of real numbers, and real functions.
		CO2	Learn real sequences, their limit, boundedness and convergence. To find convergence and divergence of a sequence. To understand Cauchy sequence, subsequence and to prove related theorems
		CO3	Learn basic theory of Riemann integration. Learn fundamental theorem and mean value theorem of integral calculus
		CO4	Understand improper integrals and to have knowledge to test their convergence. Understand integral as a function of a parameter and apply methods for problem solving
		CO5	Some particular properties of real-valued sequences and functions that real analysis studies include convergence, limits, continuity, smoothness, differentiability and integrability.
		CO6	Understand concepts of metric spaces, sub spaces and their properties. Learn open, closed and bounded sets, interior and limit points , Cauchy sequence and completeness. Learn it for further study of Mathematics
BM-352	Groups and Rings	CO1	Students will able to Define subgroup, center, Normalizer of a subgroup.
		CO2	Find cycles and transpositions of a given permutations.
		CO3	Prove Lagrange's theorem ,Euler's theorem and Fermats theorem Define cyclic groups
		CO4	Prove a group has no proper subgroup if it is cyclic group of prime order
		CO5	Define normal subgroups , quotient groups and index of a subgroup
		CO6	Define homomorphism ,kernel of homomorphism, isomorphism prove Cayley's theorem , the fundamental theorem of homomorphism for groups
		CO7	Thus group theory and the closely related representation theory have many important applications in physics, chemistry,

			and materials science.
BM-353	Numerical Analysis	CO1	Numerical Analysis is the area of mathematics and computer science that creates, analyzes, and implements algorithms for solving numerically the problems of continuous mathematics. Such problems originate generally from real-world applications of algebra, geometry, and calculus, and they involve variables which vary continuously.
		CO2	These problems occur throughout the natural sciences, social sciences, medicine, engineering, and business.
		CO3	Numerical methods are used for deeper understanding to predict the anomalies which are not possible in the analytical methods because the analytical method can solve only two or three unknown variables but numerical methods can do much more than it very accurately.
		CO4	To improve the student's skills in numerical methods by using the numerical analysis software and computer facilities
		CO5	This approach involves formulation of mathematical models physical situations that can be solved with arithmetic operations.
BSc./B.A. Sem-VI.			
BM-361	Real and Complex Analysis	CO1	Real and Complex Analysis an introduction to the theory of holomorphic functions. Multivalued functions and branches have been dealt carefully with the application of the machinery of complex measures and power series.
		CO2	Intended for undergraduate students of mathematics and engineering, it covers the essential analysis that is needed for the study of functional analysis, developing the concepts rigorously with sufficient detail and with minimum prior knowledge of the fundamentals of advanced calculus required.
		CO3	Understand concept of Jacobian, functional dependence and independence
		CO4	Understand and Learn Beta and Gamma Function, Double and Triple integral
		CO5	Understand Fourier Series and apply knowledge for problem solving
		CO6	Understand stereographic projection of complex plane on the Riemann sphere. Understand the significance of differentiability and analyticity of complex functions leading to the Cauchy–Riemann equations. Apply knowledge to solve related problems
		CO7	Learn about mapping by elementary functions

BM-362	Linear Algebra	CO1	Analyze Vector spaces and subspaces over a field and their properties.
		CO2	Understand Span of a set and it's Properties.
		CO3	Analyze Linear dependence and independence of sets and their properties together with examples.
		CO4	Find Dimension and basis of a vector space and Prove their properties
		CO5	Analyze Linear Transformations and their properties.
		CO6	Determine Matrix associated with a linear map and Linear map associated with a Matrix
BM-363	Dynamics	CO1	Students will able to Define Projectile, impulse, impact and 1 laws of impact.
		CO2	It allows one to predict the motion of an object or objects, under the influence of different forces, such as gravity or a spring.
		CO3	It can be used to predict the motion of planets in the solar system or the time it takes for a car to brake to a full stop.
		CO4	Students will able to prove that the path of a projectile is a parabola.
		CO5	Students will able to find the direct and oblique impact of smooth elastic spheres.
		CO6	It is widely used for forecasting and predicting in the field of machine learning.
B.Com.-Mathematics Sem-I			
BC-105	Business Mathematics-I Sem-I	CO1	Students will able to Use and understand useful functions in business as well as the concept of EMI
		CO2	To understand the different concept of population and sample and to male students familiar with calculation of various types of averages and variation
		CO3	To learn the applications of matrices in business
		CO4	Use simple and compound interest to do business calculations such as value of money, maturity value and present value
		CO5	To discuss effects of various types and methods of interest account and their basic applications in practice
B.Com.-Mathematics Sem-II			
BC-205	Business Mathematics-II Sem-II	CO1	Students will able to Define basic feasible solutions
		CO2	Define transportation problem
		CO3	Understand the students to solve LPP to maximize the profit

			and to minimize the cost
		CO4	To use frequency distribution to make decision
		CO5	Use business statistics for central measurements, frequency distributions, graphs and be able to select which method should be used for different problems

BCA Sem-I

BCA-115	Mathematical Foundations -I	CO1	Students will be able to: Explain why mathematical thinking is valuable in daily life.
		CO2	Solve problems in mathematics and physics involving the area of an arbitrary shape , the length of the curve and the volume of the solid.
		CO3	Understand the idea of differentiation.
		CO4	Understand and work with derivatives as rate of change.

BCA Sem-II

BCA-124	Mathematical Foundations -II	CO1	Students will be able to : Prove formulas that are valid for all $n \in \mathbb{N}$.
		CO2	Understand the concept of groups , sub-groups and Normal sub-groups.
		CO3	Understand the concept of rings , Ideals And Fields And be able to write and understand the basic proofs.
		CO4	Develop And Maintain problem solving skills and know how to add, subtract and multiply matrices.
		CO5	Learn how to solve linear equations.

Subject Outcomes

Paper Code	Paper Name		Outcome
M.Sc. Sem-1			
MM-401	Advanced Abstract Algebra (Miss. Anmol)	CO1	Students will be able to: Understand the concept of Groups, Normal groups and Quotients groups and permutation Groups.
		CO2	Describe polynomial Rings and other forms of polynomial rings, base and Dimension of a Vector Space.
		CO3	Analyse counting principle and Sylow's theorems and apply them for describing structures of finite groups.
		CO4	Demonstrate the knowledge of Rings, ideals of Rings and Quotient rings, Field of Quotients of an integral domain.
MM-402	Real Analysis-I (Miss. Ekta)	CO1	Students will be able to: Define and evaluate Upper Integral, Lower Integral and Riemann Integrals
		CO2	Define Riemann Integral as a limit of Riemann Sum and prove necessary and sufficient, condition for integrability
		CO3	Define refinement of a partition and prove results showing its consequences on lower and upper sums.
		CO4	Prove Darboux's theorem for integrals. Prove various necessary and sufficient conditions for Riemann Integrability of a function.
MM-403	Topology (Miss. Shalini)	CO1	Students will be able to: Define continuity of a function and homeomorphism and prove related theorems.
		CO2	Define a topological space, a topology, open set and closed sets. verify whether a given collection is a topology or not.
		CO3	Define trivial and non-trivial topologies and prove some results regarding their properties.
		CO4	Define finer, coarser and door topologies and neighborhood of a point.
		CO5	Define a cluster point and closure of a set and prove results related to relation between closure and closed sets.
MM-404	Complex Analysis-I (Miss. Nikita)	CO1	Students will be able to: Understand Limits , Continuity , Differentiability , Cauchy Riemann equations and their properties .

		CO2	Prove Sufficient conditions for analyticity of function
		CO3	Analyze Analytic, harmonic, exponential, Trigonometric , hyperbolic , Logarithmic ,Inverse trigonometric ,Inverse hyperbolic functions and prove their properties.
		CO4	Understand Linear, $1/z$, Linear fractional, exponential, Trigonometric transformations and their properties.
		CO5	Understand basic arithmetic of complex numbers, complex functions, limits, derivatives and some applications of conformal mappings
MM-405	Differential equations-I (Miss. Sweta)	CO1	Students will able to : Extract the solution of differential equations of the first order and of the first degree by variables separable, Homogeneous and Non-Homogeneous methods
		CO2	Find a solution of differential equations of the first order and of a degree higher than the first by using methods of solvable for p , x and y .
		CO3	Compute all the solutions of second and higher order linear differential equations with constant coefficients, linear equations with variable coefficients.
		CO4	Form partial differential equations. Find the solution of First order partial differential equations for some standard types
MM-406	Practical-I (Miss Ekta)	CO1	Students will able to: Learn simple application of C programming in mathematics..
		CO2	The objective of this course is to acquaint the students with the practical use of ANSI-C, for solving some problems of social and mathematical kind.
		CO3	Learn how Operating System is Important for Computer System.
		CO4	Also some problem solving techniques based on papers MM- 401 to MM- 405 will be taught.
M.Sc. Sem-II			
MM-407	Advanced Abstract Algebra-II (Miss. Anmol)	CO1	Students will able to : Derive and apply Eisenstein criterion for irreducibility of Polynomials
		CO2	Demonstrate Field extensions and characterization of finite normal extensions as splitting fields and study prime fields. concepts of commutative ring theory and special structures like Boolean algebras and Boolean rings.

		CO3	Know the relations between ring, isomorphism theorems and some properties of direct sum, product of rings and modules concept of Prime ideals, maximal ideals of commutative rings,
		CO4	Algebraically closed fields, splitting fields, normal and separable extensions. Modules, Prime ideals, prime radical, Jacobson radical in commutative rings, complete ring of quotients, Prime ideal spaces.
MM-408	Real Analysis-II (Miss. Ekta)		Students will able to:
		CO1	Introduces the field of mathematical analysis both with a careful theoretical framework as well as selected applications.
		CO2	The definitions and properties of Lebesgue integral allow rigorous proof of various important theorems.
		CO3	It enables students to engage in unfamiliar problems and identify relevant solution strategies.
		CO4	Understand outer measure of a set, measurable set, simple function and step functions.
MM-409	Computer Programming (Theory) (Miss. Preeti)		Students will able to:
		CO1	This course introduces beginning students to the basics of Fortran 90/95 programming and brief history of Fortran.
		CO2	The course enables the students to write any source program to compute the numerical solutions of the mathematics problems.
		CO3	Understand Object oriented Programming concepts.
		CO4	Know about Constructor handling, Functions, Array of objects, Passing and Returning Objects to Functions, Dynamic Memory.
		CO5	It arise in the research studies with applications to engineering, physical, biological or social sciences.
MM-410	Complex Analysis-II (Miss. Ramneek)		Students will able to:
		CO1	Advanced topics in complex analysis.
		CO2	Entire functions and the range of an analytic function are the concluding topics of this advance course in complex analysis.
		CO3	Starting from the compactness and convergence in the space of analytic functions we move on to establish the Runge's theorem and Mittag-Leffler's theorem followed by analytic continuation and 15 Riemann surfaces.

MM-411	Differential Equation-II (Miss. Sweta)	CO1	Students will able to: Find a solution of differential equations of the first order and of a degree higher than the first by using methods of solvable for p, x and y.
		CO2	Compute all the solutions of second and higher order linear differential equations with constant coefficients, linear equations with variable coefficients.
		CO3	Solve simultaneous linear equations with constant coefficients and total differential equations.
		CO4	This course has been designed to understand system of differential equations including linear and nonlinear systems.
MM-412	Practical -II (Miss. Ekta)	CO1	Students will able to: To train the students for practical implementations of all the features of FORTRAN 90, 95 programming, which they study as a theory course MM-409 i.e. computer programming
		CO2	Also some problem solving techniques based on papers MM-407 to MM-409 will be taught.
		CO3	Know where and why FORTRAN is still in use today.
		CO4	Know syntax for conditional statements and iterative statements.
M.Sc. Sem-III			
MM-501	Functional Analysis (Miss. Anmol)	CO1	Students will able to: To learn to recognize the fundamental properties of normed spaces and of the transformations between them.
		CO2	Understand the notions of dot product and Hilbert space and apply the spectral theorem to the resolution of integral equations.
		CO3	Students learn adjoint operator, self adjoint operators, Normal and unitary operators.
		CO4	Correlate functional analysis to problems arising in partial differential equations, measure theory and other branches of Mathematics.
MM-502	Analytical Mechanics and Calculus of Variations (Miss. Ekta)	CO1	Students will able to: Understand what functional are and have some appreciation of their applications.
		CO2	Apply the formula that determines stationary paths of a functional to deduce the differential equations for stationary paths in simple cases.
		CO3	Use the Euler-Lagrange equation or its first integral to find differential equations for stationary paths.

		CO4	Solve the differential equations for stationary paths, subject to boundary conditions, in straightforward cases.
		CO5	To know how to impose constraints on a system in order to simplify the methods to be used in solving problems.
MM-503 Opt(i)	Elasticity (Miss. Shalini)	CO1	Students will able to: At the end of the course student will be able : To apply elastic analysis to study the fracture mechanics.
		CO2	To apply linear elasticity in the design and analysis of structures such as beams, plates, shells and sandwich composites.
		CO3	To apply hyper elasticity to determine the response of elastomer-based objects
		CO4	To analyze the structural sections subjected to torsion.
		CO5	To apply the concept of stress and strain.
MM-504 Opt(i)	Fluid Mechanics-I (Miss. Nikita)	CO1	Students will be able to : Identify derivation of basic equations of fluid mechanics and apply
		CO2	Calculate the pressure distribution for incompressible fluids.
		CO3	Apply the equation of the conservation of mass, conservation of momentum, and conservation of energy.
		CO4	Describe the physical properties of a fluid.
MM-505 Opt(iv)	Integral Equations (Miss.Sweta)	CO1	Students will be able to : Understand the concept of the relationship between the integral equations and ordinary differential equations.
		CO2	Understand the linear and nonlinear integral equations by different methods with some problems which give rise to integral equations.
		CO3	Learn different types of solution methods like successive approximation, resolvent kernel and iteration method, integral transform method and which method is applicable for which type of integral equation.
MM-506	Practical-III (Miss. Shalini)	CO1	Students will be able: To know where and why FORTRAN is still in use today.
		CO2	Know syntax for simple IO (read and write) commands
		CO3	Know syntax for conditional statements (if stmts). Know syntax for iterative statements (do loop).
		CO4	Explain difference between compile time and run time errors.
M.Sc. Sem-IV			

MM-507	General Measure and Integration Theory (Miss. Anmol)	CO1	Students will be able to: Understand the fundamental concept of measure and Lebesgue measure.
		CO2	Describe the shortcomings of Riemann integral and benefits of Lebesgue integral.
		CO3	Learn about the differentiation of monotonic function, indefinite integral, use of the fundamental theorem of calculus.
		CO4	Learn the Differentiation of monotonic functions.
		CO5	Understand the algebra of measurable sets, closed and open sets.
		CO6	Students will understand the monotone convergence theorem.
MM-508	Partial Differential Equations (Miss. Ekta)	CO1	Students will be able to: Apply a range of techniques to find solutions of laplace equation, wave equation, heat equation.
		CO2	Apply Fourier analysis to diverse situations in physics, engineering, financial mathematics and in other mathematical contexts.
		CO3	Demonstrate accurate and efficient use of Fourier analysis techniques and their applications in the theory of PDE's.
		CO4	Understand basic properties of standard PDE's.
MM-509 Opt(i)	Mechanics of Solids (Miss.Ramneek)	CO1	Students will be able to: Understand basic concepts of stress, strain and their relations based on linear elasticity. Material behaviors due to different types of loading will be discussed.
		CO2	Students will be able to understand and know how to calculate stresses and deformation of a bar due to an axial loading under uniform and non-uniform conditions.
		CO3	Students will understand how to develop shear-moment diagrams of a beam and find the maximum moment/shear and their locations.
		CO4	Students will understand how to calculate normal and shear stresses on any cross section of a beam.
		CO5	Undertake problem identification, formulation and solution using a range of analytical methods.
MM-510 Opt(i)	Fluid Mechanics-II (Miss. Preeti)	CO1	Students will be able to: Use the dimensional analysis and derive the dimensionless numbers.
		CO2	Apply the similitude concept and set up the relation between a model and a prototype.
		CO3	The student will understand stress-strain relationship in fluids, classify their behavior and also establish force balance in static systems

		CO4	Students will be able to apply Bernouli principle and compute pressure drop in flow systems
		CO5	Employ the concept of continuity of flow.
		CO6	Use Bernoulli's equation to measure flow rate and velocity.
MM-511 Opt(i)	Mathematical Aspects of Seismology (Miss.Sweta)	CO1	Students will be able to: Understand the topics include general considerations of the wave equation, expansion of a spherical wave into plane waves, common features of special functions and special differential equations, applications of Legendre functions.
		CO2	Come to know studies of the more advanced parts of theoretical seismology.
		CO3	Apply the logical structure of proofs and work symbolically with connectives and quantifiers to produce logically valid, correct and clear arguments
MM-512	Practical IV (Miss. Preeti)	CO1	Students will be able to: Use MATLAB as a simulation tool. Students will learn the basic knowledge of computer.
		CO2	Students learned features of MATLAB as a programming tool. They are fully familiar to all the features of MATLAB software and easily handle the software.
		CO3	Students are able to work as a 'MATLAB programmer' in the industry because of the hands on practical sessions. This job oriented course will helps students to get the jobs in future.
		CO4	Students learned graphic features of MATLAB and they are able to use this feature effectively in the various applications.
		CO5	New teaching model which include theory & practical running simultaneously is introduced to our students. This method is very effective and helped to develop programming skills and technique to solve mathematical problems.

Department of Music (Vocal) Semester - 01, Session : 2021-22 Paper Name Music Theory	
Teacher Name Dr.Swarit Sharma	
Course Outcomes	
Course-1	Students came to know about the basics of Music like Alankar, Swar, Saptak etc.
Course-2	They had learnt about the music by practical and discussed topics in the class.
Course-3	The quality of how to perform and present the lectures in the class.
Course-4	They had participated and performed in various competitions like Youth Festivals and Inter Colleges.

Semester - 02

Course Outcomes	
Course-1	Students came to know about the Music Theory properly
Course-2	They had learnt and covered all small topics in Theory.
Course-3	They had performed in class and also played the Harmonium.

Semester - 03

Course Outcomes	
Course-1	The students came to know about the basics of all Ragas.
Course-2	They had discussed the problems in practical and Theory both papers.
Course-3	They had participated in group discussions and other tests.
Course-4	They performed at various Distt. and State level platforms.

Semester - 04

Course Outcomes	
Course-1	They had learnt different Talas on Tabla.
Course-2	They had practice the Ragas mentioned in the syllabus.
Course-3	They discussed different short topics like Tappa, Geet etc.

Semester - 05

Course Outcomes	
Course-1	Students came to know how to represent Raag in the class.
Course-2	They discussed Jeevan Parichey of all the scholars.
Course-3	Discussed all the problems regarding practical exams.

Semester - 06

Course Outcomes	
Course-1	They discussed the historical studies of Raagas.
Course-2	They presented lectures on different topics.
Course-3	They had learnt practical paper through digital method like computer.
Course-4	They had participated in different activities.

Subject Outcomes Odd Semesters for the Session 2021-22

Health and Physical Education

Paper code	Paper Name		Outcomes
BA Sem-1 PE -21	Health& Physical Education	CO-1	To explain Aim& Objectives of Physical Education.
		CO-2	To study the meaning and importance of Health and Hygiene
		CO-3	To Use an understanding of history of yoga to effectively know about its value in everyday life.
		CO-4	To understand Human Anatomy& Physiology &Its Importance.
BA Sem-3 PE-23	Health& Physical Education	CO-1	Safety Education, Sports Injuries, Preventions &control.
		CO-2	Knowledge about communicable and non communicable disease.
		CO-3	To understand the concept of Balance diet
		CO-4	To Know the Anatomy and Physiology of Circulatory System
BA Sem-5 PE-25	Health& Physical Education	CO-1	Understand the concept of Growth & Development
		CO-2	To acquire knowledge about Sports Organization & Administration.
		CO-3	Study the concept of Body Posture and Deformities.
		CO-4	To Know the Anatomy and Physiology of Circulatory System.

Subject Outcomes Even Semesters for the Session 2021-22

Health and Physical Education

Paper code	Paper Name		Outcomes
BA Sem-2 PE-22	Health & Physical Education	CO-1	Knowledge the concept of Health Education and its scope for modern society.
		CO-2	To understanding of historical prospects of Physical Education
		CO-3	To Know the Importance of Physical Fitness
		CO-4	To Know the Anatomy and Physiology Human Bones, Joints.
BA Sem-4 PE-24	Health & Physical Education	CO-1	To know the Significance & Physiology of Warming up & Cooling down.
		CO-2	To understand the Psychological aspects of Physical
		CO-3	To understand of world major Sports Events: Olympic & Asian Games.etc.
		CO-4	To Know the Anatomy and Physiology of Respiratory system
BA Sem-6 PE-26	Health & Physical Education	CO-1	To the concept of Motivation & Socialization and its relevance in sports Performance.
		CO-2	To Study the concept of Sports training and Doping
		CO-3	To know the concept of Biomechanics and its application in sports.
		CO-4	To understand the Anatomy & Physiology of digestion system and exercise. Practical Approach of Yoga, pranayams & First Aid. Further studies in Physical Education.

PHYSICS DEPARTMENT , SESSION 2021-22
COURSE OUTCOMES (ODD SEMESTERS)

Paper code	Paper Name	Outcomes	
B.Sc 1st	Teacher Name	Students will able to	
PH 101	Dr. Poonam Siwatch (Classical Mechanics & Theory of Relativity)	CO1	Know and understand the mechanics of a single particle and system of particles.
		CO2	Solve and analyze equations of motions using Lagrange's eqn of motion.
		CO3	Differentiate between inertial and Non-inertial frame of references and describe how fictitious forces arise in a non-inertial frame. Understand the importance of Michelson Morley's experiment in reference to special theory of relativity
		CO4	Understand & Solve the problems relating to mass- energy equivalence.
PH 102	Mrs. Sanjul Gupta (Electricity & magnetism)	CO1	Know about Gradient of a scalar and its physical significance, Line, Surface and Volume integrals of a vector and their physical significance
		CO2	Introduce Gauss' Law and clearly understand how to apply it.
		CO3	Analyze the value of Maxwell equation- boundary conditions
		CO4	Learn about the Magnetic induction & flux, Solenoidal nature of vector field of induction, properties & Electronic theory of dia and paramagnetism.
		CO5	Analyze the chemical and heating effect of current, AC & DC

Paper code	Paper Name	Outcomes	
B.Sc 2ND	Teacher Name	Students will able to	
PH 301	Dr. Poonam Siwatch (Computer Programming & Thermodynamics)	CO1	Know and understand the Computer Organization, Binary Representation, Algorithm development, Flowchart, Programming in Fortran.
		CO2	Create algorithms, Draw flowcharts and Write programs in FORTRAN for any given problem.
		CO3	Learn and understand the Thermodynamics system and laws of thermodynamics, Carnot cycle, Carnot theorem, Kelvin scale, Joule Thomson Effect, Entropy and Liquefaction of gases.
		CO4	Learn about Thermodynamical potentials, Maxwell's thermodynamic relations their physical interpretations.
PH 302	Mrs. Sanjul Gupta (Wave & Optics)	CO1	Introduce Young's double slit experiment & clearly understand
		CO2	Learn about Thin film, Plane parallel film , production of colours in their films, classification of fringes in films.
		CO3	Introduce Huygen's-Fresnel's theory, Fresnel's assumptions, & half-period zones clearly understand
		CO4	Know about diffraction due to a narrow slit and diffraction due to a narrow wire
		CO5	Learn about resolving power of telescope and a grating difference between prism and grating spectra .

Paper code	Paper Name	Outcomes	
B.Sc 3RD	Teacher Name	Students will able to	
PH 501	Dr. Poonam Siwatch (Quantum and Laser Physics)	CO1	Know and understand the difference between classical and Quantum Physics, Photoelectric Effect, Compton Effect, De-Broglie Hypothesis, Uncertainty Principle, Schrodinger wave equation.
		CO2	Apply and Solve Schrodinger equation for ground state energy and wave functions of various simple quantum mechanical one dimensional and three dimensional potentials.
		CO3	Familiar with optical phenomena and different concepts related to laser physics, Understand and explain the basic principles of working of LASER.
		CO4	Know and understand the working of He-Ne Laser, Ruby Laser, Semiconductor Laser, understand and appreciate the applications of Lasers in developing LED, Holography, in materials processing, in Medicine, Industry and Military.
PH 502	Mrs. Sanjul Gupta (Nuclear physics)	CO1	Learn about concepts of nuclear physics and nuclear energies and importance of their use for mankind.
		CO2	Understand the relationship between particles & atom, as well as their creation & decay. Relate the structure of atoms & subatomic particles.
		CO3	Understand nuclear composition and elementary particles, charge symmetry and independence, spin dependency and nuclear force
		CO4	Analyze the ideas of basics of nucleus and their energy, nuclear fission and fusion.
		CO5	Distinguish between types of nuclear models.
		CO6	Understand basic principal and classification of reactors.

PHYSICS DEPARTMENT , SESSION 2021-22
COURSE OUTCOMES (EVEN SEMESTERS)

Paper code	Paper Name	Outcomes	
B.Sc 1ST	Teacher Name	Students will able to	
PH 201	Dr. Poonam Siwatch (Mechanics)	CO1	Understand the application of both translational and rotational dynamics motions. Write the expression for the moment of inertia about the given axis of symmetry for different uniform mass distributions. Understand the concept of MOI by application of flywheel.
		CO2	Know and understand the principles and basic terms related to elasticity through the study of Young Modulus and modulus of rigidity.
		CO3	Learn about Kinetic interpretation of Temperature, the real gas equations, Van der Waal equation of state and Brownian motion
		CO4	Learn and explain the basic aspects of kinetic theory of gases, Maxwell-Boltzman distribution law, Apply the concept of mean free path to understand the concept of viscosity, thermal conductivity and diffusion.
PH 202	Mrs. Sanjul Gupta (Electronics Devices)	CO1	learn about semiconductor physics of the intrinsic, p and n material
		CO2	Understanding the characteristics of the p-n junction, the diode and some special function diodes and these diodes' application in electronic circuit.
		CO3	know about Amplifiers, Classification of amplifiers, common base and common emitter amplifiers, coupling of amplifiers
		CO4	Learn about (RC) coupled amplifier, Feedback in amplifiers, advantages of negative feedback, emitter follower, distortion in amplifiers.
		CO5	Know about Oscillators , classification of oscillators & Tuned collector common emitter oscillator, Hartley oscillator

Paper code	Paper Name	Outcomes	
B.Sc 2ND	Teacher Name	Students will able to	
PH 401	Dr. Poonam Siwatch (Statistical Physics)	CO1	Understand and explain the concepts of microstate, macrostate, thermodynamic probability, the studies of particles with their distinguishably or indistinguishably nature and conditions which lead to the three different distribution laws e.g. Maxwell Boltzmann distribution, Bose-Einstein distribution and Fermi-Dirac distribution laws of particles.
		CO2	Learn the basic Postulates of statistical physics, Phase space, Division of Phase space into cells and be able to derive the expression for average speed, r.m.s. speed, average velocity, r. m. s. velocity for Maxwellian distribution.
		CO3	Derive Bose-Einstein & Fermi-Dirac statistics and be able to differentiate between classical statistical mechanics and quantum statistical mechanics.
		CO4	Learn and understand the different laws and theories of specific heat of solids and their significance.
PH 402	Mrs. Sanjul	CO1	Learn about polarisation by reflection & scattering, Malus Law,

	Gupta (Wave & Optics)		Huygen's wave theory.
		CO2	Understand analysis of polarized Light & Nicol prism, Quarter wave plate and half wave plate
		CO3	Introduce the Fourier series, Fourier coefficients, odd functions, even functions, Fourier theorem
		CO4	Learn about Fourier transforms and its properties
		CO5	Introduce the optics fiber & its type , Normalized frequency, Pulse dispersion, Attenuation, Applications, Fiber optic Communication

Paper code	Paper Name	Outcomes	
B.Sc 3RD	Teacher Name	Students will able to	
PH 601	Dr. Poonam Siwatch (Solid State)	CO1	Know about crystalline and amorphous substances, lattice, unit cell, primitive cell, miller indices, Bravais lattices in two & three dimensions and crystal structures of Zinc Sulphide, Sodium Chloride and Diamond.
		CO2	Understand and learn X-ray diffraction, Bragg's Law and experimental X-ray diffraction methods and about the reciprocal lattice to a simple cubic lattice, b.c.c. and f.c.c. lattice.
		CO3	Understand the basic idea about superconductors, their classifications and practical applications.
		CO4	Know the basics of nanotechnology and appreciate the role of nanotechnology in different fields such as automobile, electronics, nano-biotechnology, materials, medicine etc.
PH 602	Mrs. Sanjul Gupta (Atomic & molecular spectroscopy)	CO1	Spectroscopic studies were central to the development of Quantum mechanics and study of atoms and molecules.
		CO2	Learn about vector atom model , salient feature of vector atom model , spin orbital interaction energy.
		CO3	Understand the fine structure of alkali spectra & coupling in case a more than one valence electron atom .
		CO4	Learn about Lermor's theorem , Pauli Exclusion Principal ,symmetric & anti- symmetric , wave function.
		CO5	Learn about ,infra red rotational & vibrational spectra and their energy level ,Raman effect & its application & checking of assignment

Political Science Department

Session : 2021-2022

B.A. SEM 1st

Paper Code	Paper Name		OCTCOMES
PS21(i)	Indian Constitution	CO:1.	The students came to know about the basics of Indian Constitution.
		CO:2	To understand the main sources of Constitution and it's Preamble
		CO:3	They had learnt about the digital platforms and learnt their duties to become a better citizen.
		CO:4	They knew about the current affairs and mythology in group discussion and E -Newspaper.
		CO:5	The qualities of leadership and confidence developed in them.
		CO:6	They had learnt about their supreme law in class discussion.

B.A. SEM 2nd

PS 22(i)	Indian Politics	CO:1	Students come to know about the basics of Indian Politics.
		CO:2	They had learnt about the digital platforms and discussed India's critical issues like caste, religion and Language.
		CO:3	They knew about the current affairs and mythology in group discussion.
		CO:4	They knew about the current affairs and mythology in group discussion.
		CO:5	They had cleared their theoretical knowledge with real example.

B.A. SEM 3rd			
PS23(ii)	Indian Political Thinkers	CO:1	The students came to know about the basics of Indian political thought.
		CO:2	They had discussed Indian Political thinker's thought and learnt more about valuable methods.
		CO:3	They knew about the Indian Political thinkers.
		CO:4	They had participated in group discussion, tests and other skill development programs.
B.A. SEM 4th			
PS24(ii)	Indian Political Thinkers	CO:1	The students came to know about the basics of Indian Political Thinkers.
		CO:2	They had learnt about the digital platforms.
		CO:3	They had discussed Thinkers revolutionary views and give their opinion on them
		CO:4	They knew about the mythology in group discussion.
		CO:5	The qualities of leadership and confidence developed in them.
B.A. SEM5th			
PS25(ii)	International Relations	CO:1	The students came to know about the basics International Relations.
		CO:2	They had learnt about the digital platforms and discussed current issues in the class.
		CO:3	They knew about the current affair and mythology in group discussion and to understand IR approaches.

		CO:4	The qualities of leadership and confidence developed in them.
		CO:5	They had discussed the relation among the nations in class and discussed India's relations with neighborhood.
B.A. SEM 6th			
PS26(ii)	International Organization	CO:1	Students came to know about the basics of International Organization.
		CO:2	They had learnt about the digital platforms.
		CO:3	They knew about the current affairs and mythology in group discussion.
		CO:4	Students had discussed current issues in class.
		CO:5	They had used E -newspaper for International news and updates.
		CO:6	They had discussed current news and updates of International Organization and its agencies.

Session 2021-22 (Odd Semester)

B.A. Sem. I			
Paper Code	Paper Name		Outcomes
EP-21	Elective Punjabi	CO-1	The students acquire the detail knowledge about modern Punjabi poetry.
		CO-2	The students understand about the history of Punjabi novel and different types of the novel.
		CO-3	Official Terminology enhances the vocabulary of the students.
		CO-4	The students become able to understand the meaning of Punjabi idioms and acquire the knowledge to use them.

B.A. Sem. III			
EP-23	Elective Punjabi	CO-1	The students acquire the knowledge about Punjabi short stories.
		CO-2	The students are able to understand the writing techniques of short story.
		CO-3	The students acquire the knowledge of different types of Medieval Punjabi poetry as Gurmat Kav, Kissa Var etc.
		CO-4	Grammar part of this semester enhances the knowledge about the role of Meter in the Poetry and different types of Meter.

B.A. Sem. V			
EP-25	Elective Punjabi	CO-1	The students become able to understand about various types of poetical writings.
		CO-2	The students acquire the knowledge of writing techniques of essay.
		CO-3	The students acquire the knowledge of different Punjabi poetic forms e.g. Kissa, Var, Jangnama, Gazal, Kaafi etc.
		CO-4	Hindi to Punjabi translation improves the vocabulary the students.

Session 2021-22 (Even Semester)

B.A. Sem. II			
Paper Code	Paper Name		Outcomes
EP-22	Elective Punjabi	CO-1	The syllabus of this semester gives the knowledge about the differences between the Ideology of different poets.
		CO-2	The students acquire the knowledge about Punjabi One-Act-Play.
		CO-3	The students understand the technique of Punjabi One-Act-Play and able to understand the differences between drama and One-Act-Play.
		CO-4	The students understands the technique of Punjabi one act play and able to understand the differences between drama and one act play
		CO-5	'Error Correction' part of the syllabus gives the ability to understand and improve the writing mistakes of the students.

B.A. Sem. IV			
EP-24	Elective Punjabi	CO-1	'History of Literature' enhances the knowledge of the students about 'Medieval Punjabi Literature'.
		CO-2	Students acquire the knowledge about the detailed history of Punjabi Gurmat Kav, Kissa Kaav, Sufi Kaav, Veer Kaav and Vartak.
		CO-3	The students learns the technique of an essay and learns how to write essay.
		CO-4	The students learns about the ornament role of ornament in poetical writings.

B.A. Sem. VI			
EP-26	Elective Punjabi	CO-1	The students acquire the knowledge of Ancient Period of History of Punjabi Literature.
		CO-2	The students acquire the knowledge of different types of Prose.
		CO-3	The students become able to understand differences between Novel and Short Story, Drama and One-Act-Play, Auto-Biography and Biography.
		CO-4	The students become able to improve his/her writing spelling mistakes.

ZOOLOGY SUBJECT OUTCOMES(2021-2022)

Paper code	Paper Name	Outcomes	
BSC MEDICAL Sem-I			
PAPER I	Life and Diversity from Protozoa to Porifera and cell biology-I	CO1	Pathogenicity of pathogens and its economic importance.
		CO2	Biodiversity and economic importance of poriferans.
		CO3	Ultrastructure of cell organelles
		CO4	Functioning of cell
PAPER II	Life and diversity from coelentrata to helminthes and cell biology-II	CO1	Infection and disease caused by helminthes, Cell division(mitosis and meiosis), structure and functions of nucleus and chromosomes and cellular basis of immunity
		CO2	Biodiversity and economic importance of coelentrates and helminthes.
BSC. MEDICAL Sem-2			
PAPER I	Life and diversity from Annelida to Arthropoda and genetics-I	CO1	Biodiversity and economic importance of annelids and vermicomposting.
		CO2	Largest taxon of Metazoa and their vastness,
		CO3	Genes, sex determination systems, heredity, gene interactions, cytoplasmic inheritance.
		CO4	Diversity of insects and their extremely successful existence upon this earth.
PAPER II	Life and diversity of Mollusc to Hemichordate and genetics II	CO1	Provide knowledge about Mollusc, Echinoderms, Hemichordates - their diversity and economic importance.
		CO2	About multiple allelism, chromosome and abnormalities, function of genetic material, genetic counselling, prenatal diagnosis, DNA fingerprinting, transgenic animals.
Paper code	Paper Name	Outcomes	

BSC. MEDICAL Sem-3			
PAPER I	Life and diversity of Chordates-I	CO1	Origin of chordates and lower chordates.
		CO2	Evolutionary tree of chordates and lower chordates.
		CO3	Migration in fishes, their scales, fins
		CO4	How do they care about their young ones.
PAPER II	Mammalian Physiology-I	CO1	Life and diversity from chordates and their economic importance.
		CO2	Nutritional and excretional physiology.
Paper code	Paper Name	Outcomes	
BSC MEDICAL Sem-4			
PAPER I	Life and diversity of Chordates-II	CO1	Amphibia, Reptilia, Aves and Mammalia.
		CO2	Parental care in animals.
		CO3	Snakes poisonous and non poisonous)and their poison apparatus.
		CO4	Principle of aerodynamics of bird flight ,flight adaptation& migration in birds,Dentition in mammals.
PAPER II	Mammalian physiology-II	CO1	About mechanism of circulation, respiration
		CO2	Excretion, neural integration, chemical integration and reproduction.
Paper code	Paper Name	Outcomes	
BSC MEDICAL Sem-5			
PAPER I	Environmental biology	CO1	Students know about practical application of ecology in agriculture, biological surveys, forestry.
		CO2	This environmental biology will help in conservation of natural resouces.
		CO3	Restoration of natural environment to ensure human survival, protection of animal and plant species.
		CO4	Conservation of biodiversity.
PAPER II	Evolution and Developmental Biology	CO1	Historical prespectives& scope of developmental biology.
		CO2	From the process of gastrulation to zygote formation.

			Concept of regeneration, organisers, differentiation, competence etc.
Paper code	Paper Name	Outcomes	
BSC. MEDICAL Sem-6			
PAPER I	Aquaculture and Pest Management-I	CO1	Students will know about world and indian fisheries.
		CO2	Fishing crafts and gears.
		CO3	Life Cycles of insect pests of sugarcane, cotton, wheat, paddy.
		CO4	Pests of vegetables and their control methods.
PAPER II	Aquaculture and Pest Management-II	CO1	Knowledge about, natural resources, its assessment, collection & hatchery production, sources of food, feed composition, culturing and its technologies.
		CO2	Pest of stored grains, their systemic positions, habits and nature of damage caused, their life cycle and control. Integrated pest management (biological, chemical)

ऐच्छिक-संस्कृत-परिणाम
कक्षा- बी0 ए0 प्रथम तथा द्वितीय सामिसत्र
संस्कृत- पाठयक्रम विशिष्ट परिणाम

संस्कृत-ऐच्छिक-पाठयक्रम के सफल-समापन के पश्चात विद्यार्थी निम्नलिखित योग्यताओं से युक्त होंगे:-

क्रम सङ्ख्या	परिणाम	परिणाम-वर्णन
1	पा0 वि0प0 1	सामाजिक -जागरूकता:- साहित्य का इतिहास, समाज संस्कृति एवं मानव-व्यवहार से सम्बन्ध को समझ पाएंगे।
2	पा0 वि0प0 2	लेखन-कौशल:- व्यावसायिक-पेशे सम्बन्धी वाक्य लेखन एवं रचनात्मक लेखन के योग्य होंगे
3	पा0 वि0प0 3	सम्प्रेषण-कौशल:- भिन्न-भिन्न पारिस्थितियों में मौखिक एवं गैर-मौखिक सम्प्रेषण (कौशल) का प्रभावपूर्ण प्रयोग करेंगे।
4	पा0 वि0प0 4	शोध अनावरण:- भाषा एवं साहित्य में सार्थक-शोध हेतु शोध-प्रविधियों का प्रयोग कर पाएंगे।
5	पा0 वि0प0 5	स्थिरता/धैर्य:- नैतिक, सामाजिक, पर्यावरण सम्बन्धी उलझनों के परिणाम का मूल्याङ्कन करने के योग्य होंगे।
6	पा0 वि0प0 6	समग्र-विकास:- बहु-सांस्कृतिक-मूल्यों से परिचित होंगे। नैतिक स्तर की एवम् आलोचनात्मक सोच विकसित होगी। सम्पूर्ण-व्यक्तित्व का विकास कर पायेंगे।
7	पा0 वि0प0 7	जीवन-पर्यन्त-शिक्षा:- आजीवन व्यावसायिक एवं बौद्धिक विकास के लिए उत्सुक रहेंगे एवं प्रयास करते रहेंगे।
8	पा0 वि0प0 8	नेतृत्व एवं समूह में मिलकर कार्य करना:- सक्रिय नेतृत्व क्षमता से युक्त होकर समूह में कार्य कर अपने आवश्यक लक्ष्यों को प्राप्त कर पाएंगे।
9	पा0 वि0प0 9	साहित्यिक-सन्दर्भों की प्रभावपूर्ण/कौशलपूर्ण व्याख्या करने के योग्य होंगे।
10	पा0 वि0प0 10	मनो-सामाजिक-बदलाव सम्बन्धी ज्ञान प्राप्त करेंगे।
11	पा0 वि0प0 11	इस प्रकार विद्यार्थी का सामाजिक, आत्मिक, राजनैतिक, नैतिक, व्यावसायिक, आर्थिक विकास होगा एवं वह "मनुर्भव" वाक्य को सार्थक कर पाएगा।

इत्यादयः

ऐच्छिक-संस्कृत- पाठयक्रम
परिणाम
कक्षा- बी0 ए0 तृतीय तथा चतुर्थ सामिसत्र
संस्कृत- पाठक्रम विशिष्ट परिणाम

संस्कृत-ऐच्छिक-पाठयक्रम के सफल-समापन के पश्चात् विद्यार्थी निम्नलिखित योग्यताओं से युक्त होंगे:-

क्रम संख्या	परिणाम	परिणाम-वर्णन
1	पा0 वि0प0 1	<u>सामाजिक -जागरूकता:-</u> साहित्य का इतिहास, समाज संस्कृति एवं मानवीय व्यवहार से सम्बन्ध का ज्ञान होगा।
2	पा0 वि0प0 2	<u>अन्त:-भाषिक सम्बन्ध</u> भाषाओं में प्रयुक्त परिभाषिक शब्दों के अर्थ (अर्थबोध) का ज्ञान होगा।
3	पा0 वि0प0 3	<u>पुरातन एवं नवीन ज्ञान का सदुपयोग:-</u> इतिहास के प्रसिद्ध लेखकों एवं उनकी कृतियों का अध्ययन कर तत्कालीन एवं उनकी वर्तमान प्रासङ्गिकता जान पाएंगे।
4	पा0 वि0प0 4	<u>कुशल मूल्याङ्कन:-</u> नैतिक, सामाजिक, पर्यावरण सम्बन्धी, समस्याओं के परिणाम का मूल्याङ्कन करने के योग्य होंगे।
5	पा0 वि0प0 5	<u>शोध दृष्टि:-</u> साहित्य तथा भाषा में सार्थक शोध-प्रविधियों का प्रयोग कर पाएंगे।
6	पा0 वि0प0 6	<u>सम्प्रेषण-कौशल:-</u> भिन्न-भिन्न परिस्थितियों में मौखिक एवं गैर-मौखिक (लिखित) सम्प्रेषण कौशल, का प्रभावपूर्ण प्रयोग करने के योग्य होंगे।
7	पा0 वि0प0 7	<u>अर्थपूर्ण-अभिव्यक्ति:-</u> अपने भावों, विचारों को गागर में सागर भरते हुए संक्षेप में कहने के योग्य होंगे।
8	पा0 वि0प0 8	<u>व्यावसायिक-कार्यक्षमता:-</u> व्यावसायिक कार्य-सम्बन्धी वाक्य-लेखन एवं रचनात्मक लेखन के योग्य होंगे।
9	पा0 वि0प0 9	साहित्यिक-सन्दर्भों की प्रभावपूर्ण व्याख्या करने के योग्य होंगे।
10	पा0 वि0प0 10	<u>व्यक्तित्व-विकास:-</u> विद्यार्थी की नैतिक, एवम आलोचनात्मक सोच विकसित होंगी। अपनी जड़ों से जुड़कर वर्तमान में सामाजिक, आत्मिक, राजनैतिक, व्यावसायिक तथा आर्थिक विकास कर अपने सम्पूर्ण व्यक्तित्व का विकास कर पाएंगे।
इत्यादयः		

ऐच्छिक-संस्कृत- पाठयक्रम
कक्षा- बी0 ए0 पंचम तथा षष्ठ सामिसत्र
संस्कृत- पाठक्रम-विशिष्ट-परिणाम

संस्कृत-ऐच्छिक-पाठयक्रम के सफल-समापन के पश्चात् विद्यार्थी निम्नलिखित योग्यताओं से युक्त होंगे:-

क्रम संख्या	परिणाम	परिणाम-वर्णन
1	पा0 वि0पा0 1	सामाजिक -जागरूकता:- अपने देश के इतिहास, समाज, संस्कृति एवं मानव-व्यवहार के साथ सहित्य का सम्बन्ध समझ पाएंगे।
2	पा0 वि0पा0 2	प्राचीन-भारतीय-शोध-ज्ञान:- अपने भारत-देश के प्रकाण्ड विद्वानों एवम् उनकी कृतियों, उनमें निहित गूढ रहस्यों का ज्ञान अर्जित कर तत्कालीन एवं आधुनिक समय में उनकी प्रासंगिकता का बोध कर पाएंगे।
3	पा0 वि0पा0 3	धैर्यता एवं स्थिरता:- नैतिक, सामाजिक, राजनैतिक एवं पर्यावरण से सम्बन्धित समस्याओं के परिणाम एवं उनके समाधान में सक्षम होंगे।
4	पा0 वि0पा0 4	सम्प्रेषण-कौशल:- वाचन एवं लेखन कौशल में सक्षम होंगे। अपने भावों, विचारों को स्पष्ट रूप से कहने के योग्य होंगे।
5	पा0 वि0पा0 5	शोध तकनीक:- सहित्य तथा भाषा में सार्थक शोध-प्रविधियों का प्रयोग कर पाएंगे
6	पा0 वि0पा0 6	साहित्यिक संदर्भों की प्रभावपूर्ण व्याख्या कर पाएंगे।
7	पा0 वि0पा0 7	समग्र-व्यक्तित्व-विकास:- बहु-सांस्कृतिक-मूल्यों से परिचित होंगे। नैतिक स्तर मजबूत करते हुए आलोचनात्मक चिन्तन विकसित होगा। पारम्परिक एवं आधुनिकता के मिश्रण से अन्तर्वैषयिक विषयों में सम्बन्ध स्थापित करते हुए समग्र-व्यक्तित्व का विकास कर पाएंगे।
8	पा0 वि0पा0 8	सङ्गणकीय-संस्कृतम्:- व्याकरणिक नियमों के ज्ञान से सामान्य व्यवहार एवं सङ्गणकीय-संस्कृतम् के लिए तैयार होंगे।
9	पा0 वि0पा0 9	शोध दृष्टि:- भाषा-साहित्य में सार्थक शोध हेतु विभिन्न शोध-प्रविधियों का प्रयोग करने में कुशल होंगे।
10	पा0 वि0पा0 10	लेखन-कौशल:- औपचारिक, अनौपचारिक वाक्य-लेखन एवं रचनात्मक लेखन के योग्य होंगे।
11	पा0 वि0पा0 11	नेतृत्व क्षमता :- सक्रिय नेतृत्व गुणों से युक्त होकर समूह में कार्य कर अपने सद-उद्देश्यों को प्राप्त करेंगे।
12	पा0 वि0पा0 12	आजीवन-शिक्षा:- जीवन पर्यन्त बौद्धिक, आत्मिक एवं व्यावसायिक विकास हेतु प्रयासरत रहेंगे। "वसुधैव-कुटुम्बकम्" की भावना से कार्य कर स्व एवं सर्वहित में अग्रसर रहेंगे।

इत्यादयः