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 E-mail Id – gcbishrampur2016@gmail.com

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**Program Outcome and Course Outcomes for different Programs and Courses**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| S. No. | Program System | Program Name | Course Name | Page No. |
| 1 | UG (Annual) | B.Sc. (Bio.) | ZoologyBotanyChemistry |  |
| 2 | UG (Annual) | B.Sc. (Math) | PhysicsMathsChemistry |  |
| 3 | UG (Annual) | B.Com. | All compulsory Subjects |  |
| 4 | UG (Annual) | B.A. | SociologyPolitical ScienceHindiEnglishGeographyEconomicsHistory |  |

Programme and Course Outcomes for UG (B.Sc.)

 After successful completion of Undergraduate three years B.Sc. general Degree Programme, the Students will be able to:

Program Outcome for UG: Zoology

• acquire the knowledge of Cell biology, Non-Chordates, Chordates and Embryology.

• understand the basic concepts of Anatomy, Physiology, Endocrinology and Reproductive biology of Vertebrates. Behaviour, Evolution and applied Zoology.

 • know about Ecology, Environmental Biology, Toxicology, Microbiology, Medical Zoology, Genetics, Cell Physiology, Biochemistry, Biotechnology, and Biotechniques.



Course Outcomes for UG: Zoology

 After completion of three years Course of Zoology the students will be able:

CO-1: To acquire the knowledge of Cell, Cell division, General Characters and Classification and Type, Study of Phylum Protozoa-Paramecium, Porifera-Sycon, Coelenterate-Obelia, Platyhelminthes and Nemathelminths-Fasciola, Ascaris, Annelida-Phreesia, Arthropoda Palaemonid and Echinodermata-Asterias.

CO-2: Students understands the Structure and Classification of Chordata-Balanoglossus, Amphioxus, Petromyzon and Myxine, Fish, Amphibia, Reptiles, Birds and Mammals, Embryology of Frog, Chicks and Mammals.

CO-3: Students will have the concepts regarding Comparative Anatomy and Physiology of Various Organ System of Vertebrates: Integument, Endoskeleton Digestive, Respiratory, Nervous, Musculature and Urinogenital System.

CO-4: Students are able to describe structure and function of Endocrine Glands, Reproductive cycle in Vertebrates, Animal behaviour, Culture of Prawn, Fish, Silk Insect and Honey Bee, Poultry Keeping and Pest Control.

CO-5: Students received the knowledge of Ecology, Pollution, Ecosystem, Toxicology, Heavy Metal Toxicity, Animal Poisons and Food Poisoning, Microbiology of domestic water, Sewage, Dairy and Industry, Pathogenic Microorganisms, Life history and Pathogenicity of Entamoeba, Trypanosome and Plasmodium, Nematode Parasite of Man and Insect Vector.

CO-6: Students will have the concepts of Linkage, Sex Linkage and Determination, Gene Interaction, Human Genetics, Cell Physiology, pH Transport and Enzymes. Amino Acid and Peptides, Carbohydrate, Lipid and Protein Metabolism, Application of Biotechnology, Gene Cloning, Hybridoma, Transgenic Animals, Principles and Techniques of pH Meter, Colorimeter, Microscope, Centrifuge and Chromatography.

Program Outcome for UG: Botany

After successful completion of Undergraduate three years B.Sc. general Degree Programme, the Students will be able to:

 • To identify the Bacteria, Viruses and Bryophytes, Liches and Algae, Pteridophytes, Bryophytes, Gymnosperms and Palaeobotany.

 • To know about Plants Taxonomy, Economic Botany, Plant Anatomy and Embryology, Plants Physiology and Ecology.

• To study the Plants Pathology, Experimental Embryology, Elementary Bio Statistics, Environmental Pollution and Genetics, Molecular Biology, Bio Technology, and Bio Chemistry.

Course Outcomes for UG: Botany

After completion of three years Course of Botany the students will be able:

CO-1: To understand the Viruses, Bacteria, Fungi, Algae and Lichens.

CO-2: To illustrate of Bryophytes, Pteridophytes, General Account and Systematic Position of Pteridophytes Members, Gymnosperms and Palaeobotany.

CO-3: To know about Taxonomy of Angiosperms, Botanical Nomenclature, Modern Trends of Taxonomy, Herbarium Technique, Terminology for Botanical Description, Dicotyledonous Families, Economics Botany, Plant Anatomy and Embryology.

CO-4: To acquire the knowledge of Introduction of and Scope of Ecology, Environmental and Ecological Factors, Population and Community Ecology, Concept of Eco-System, Biogeochemical Cycles, Plant water Relation, Photosynthesis, Respiration, Plant Growth Hormones.

CO-5: To learn the Structure Principle and Application of Analytical Instruments-Autoclave, Incubator, Plant tissue Culture Techniques, Growth Media, Totipotency, Somatic Hybrids, General Symptoms of Fungal Bacterial and Viral diseases, Introduction to pollution, Green House Gases, B.O.D and C.O.D, biodiversity, Phytoremediation, concepts of Sustainable Development, Elementary Biostatics.

CO-6: To known about Cell and Cell Organelles, Mendel’s Laws, Linkage and Crossing over, Gene concepts, Nucleic acids, Operon Model, Cytoplasmic Inheritance, RNA, Mutation, Genetic Code and Protein Synthesis, Regulation of Gene Expression, Genetic Engineering, Recombinant DNA Technology, Application of Biotechnology, Protein- Composition and Structure, Carbohydrates, Fact and Fatty acids, Enzymes.

Program Outcome for UG: Chemistry

 • To acquire knowledge about physical, organic and in-organic characteristics of matter. Structure, preparation and function of different compound, mixture and alloy.

• To acquire practical knowledge about chemical composition and characteristics of metal, non-metal, compound and mixture.



Course Outcomes for UG: Chemistry

After completion of three years Course of Chemistry the students will be able:

CO-1: To acquire the knowledge of Atomic Structure, Periodic Properties, Chemical Bonding-I: Ionic bond, Chemical Bonding-II: Covalent bond, s-Block Elements, p- Block Elements, Chemistry of Novel Gases and Theoretical Principles in Qualitative Analysis(H2S).

CO-2: To know about the Basics of Organic Chemistry, Introduction to Stereochemistry, Conformational Analysis of Alkanes, Chemistry of Aliphatic hydrocarbons: Carbon-Carbon sigma bonds, Carbon-Carbon Pi bonds, Aromatic Hydrocarbons.

CO-3: To get the basic knowledge of Mathematical Concepts for Chemist, Gaseous state Chemistry, Gaseous State Chemistry, Liquid state Chemistry, Colloids and Surface Chemistry, Solid State Chemistry, Chemical Kinetics, Catalysis.

CO-4: To learn about the Chemistry of Transition Series Elements, Oxidation and Reduction, Coordination Compounds, Co-Ordination Chemistry, Chemistry of Lanthanide Elements, Chemistry of Actinides, Acids-Bases, Non-Aqueous Solvents.

CO-5: To illustrate about the Chemistry of Organic Halides: Alkyl halides, Aryl halides, Alcohols: Alcohol, Trihydric alcohols, Aldehydes and Ketones, Carboxylic Acids: Di carboxylic acids, Carboxylic acid derivatives, Organic Compounds of Nitrogen.

CO-6: To explain about the Thermodynamics-I, Thermo-Chemistry, Thermodynamics-II: Second Law of Thermodynamics, Chemical Equilibrium, Ionic Equilibrium, Phase Equilibrium, and Photochemistry

CO-7: To perceive about the Metal-Ligand Bonding in transition Metal Complexes, Thermodynamic and Kinetic aspects of Metal complexes, Magnetic Properties of Transition Metal Complexes, electronic Spectra of Transition Metal Complexes, Organometallic Chemistry, Catalysis by Organometallic Compounds, Bio-Inorganic Chemistry, Hard and Soft Acids and Bases (HSAB), Inorganic Polymers.

CO-8: To describe about the Heterocyclic Compounds, Organometallic Reagents, Organic Synthesis via Enolates, Biomolecules: Carbohydrates, amino Acids, Proteins and nucleic acids, Synthetic Polymers, Synthetic Dyes, Infra-Red Spectroscopy, UV-Visible Spectroscopy, NMR Spectroscopy,

CO-9: To able to designate about the Quantum Mechanics-I, Quantum Mechanics-II, Spectroscopy: Introduction, Vibrational Spectroscopy, Raman Spectroscopy, Raman Spectrum, Electronic Spectroscopy, Electrochemistry-I: Electrolytic Conductance, Theories of Strong Electrolytes, Migration of Ions, Electrochemistry-II Electrochemical cell and Galvanic Cells, single Electrode Potential, Concentration Cell.

Program Outcome for UG: Physics

• To know Mechanics, Oscillations, Properties of Matter, Electricity, Magnetism and electromagnetic Theory.

• To acquaint Thermodynamics, Kinetic Theory, Statistical Physics, Waves, Acoustics and Optics.

 • To understand Relativity, Quantum Mechanics, Atomic Molecular and Nuclear Physics, Solid State Physics, Solid State Devices and Electronics.

Course Outcomes for UG: Physics

After completion of three years Course of Physics the students will be able:

 CO-1: To acquire the knowledge of Mechanics, Rigid Body Motion and Oscillations, Superposition of Simple Harmonic Oscillations, Motion of Charged Particles in Electric and Magnetic Fields, General Properties of Matter.

CO-2: To elicit Mathematical Physics and Network Theorems, Electrostatics, Dielectrics and Alternating Current Circuits, Magneto-statics, Electrodynamics.

CO-3: To describe Laws of Thermodynamics, Entropy, Thermo-dynamical Potential and its Applications, Black-Body Radiation, Maxwellian Distribution of speeds in an ideal gas, Transport Phenomena in gases, Behaviour of real gases, Statistical Basis of Thermodynamics, Universal laws and Quantum Statistics.

CO-4: To determine Waves in Medium, Geometrical Optics, Physical Optics, Diffraction, Double Refraction and Optical Rotation and LASER.

CO-5: To Perceive Special Relativity and Lorentz Transformation, Origin of the Quantum Mechanics and wave particles Duality, Uncertainty Principle, Schrodinger’s Wave Equation and its Applications, Elements of Spectroscopy, Structure of Nuclear Models Nuclear Reactions and Nuclear Detectors.

CO-6: To Learn Crystal structure, Thermal Properties of Solids, Electrical Properties of Solids, Magnetic Properties of Solids, Semiconductor Diode, Transistor, Rectifiers and Filters, Application of Transistors and Digital Circuits.

Program Outcome for UG: Mathematics

• To Explain Algebra and Trigonometry, Calculus and Vector Analysis and Geometry.

• To Describe Advanced Calculus, Differential Equations, Mechanics.

 • To understand Analysis, Abstract Algebra and Discrete Mathematics.

Course Outcomes for UG: Mathematics

After completion of three years Course of Mathematics the students will be able:

CO-1: To Solve the Elementary Operations, Elementary Matrices and Inverse of Matrix, Rank of Matrices, Eigen Values and Eigen Vector, Applications of Matrices to System of Linear Equations, Consistency and Inconsistency, Theory of Equations, Relation and Mapping, Group, Subgroup, Cyclic Group, Coset Decomposition, Normal Subgroup, Quotient Group, Permutation Group, Homomorphism and Isomorphism of Groups, Fundamental Theorem of Homomorphism, Ring, Integral Domain, Field, De-Mover’s Theorem and its Application, Direct and Inverse Circular and Hyperbolic Functions, logarithm of Complex Quantities, Expansion of Trigonometric Functions, Gregory’s Series and Summation of Trigonometric Series.

CO-2: To Evaluate Limit and Continuity, Differentiability, Leibnitz’s Theorem, Maclaurin’s and Taylor Series, Asymptotes, Curvature, Concavity and Convexity, Tracing of Curves, Integration of Transcendental Functions, Reduction Formulae, Definite Integrals, Quadrature, Length of Curve, Volumes of Surfaces of Solid of Revolutions, Differential and Exact Differential Equation, Geometrical Meaning of Differential Equation, Linear Differential Equation and Ordinary Simultaneous Differential Equation.

CO-3: To Find Out the Scalar and Vector Product and Its Differentiation, Gradient, Divergence, Curl, Vector Integration, Gauss’s, Green’s and Stoke’s Theorem, General Equations of Second Degree and Tracing of Conics and Its System, Polar Equation of Conic, The Sphere, Cone, Cylinder, Central Conicoid, Paraboloid, Plane Section of Conicoid, Generating Lines, Confocal Conicoid and Reduction of Section Degree Equations.

CO-4: To Identify Convergence of Sequence and Series, Alternating Series, Continuity and Differentiability of One Variable Function, Darboux’s Intermediate and Mean Value Theorem, Taylor’s Theorem, Limit, Continuity and Tayler’s Theorem For Function of Two Variables, Partial Differentiation and Euler’s Theorem on Homogeneous Function, Change of Variables, Jacobians, Envelopes and Evolutes, Maxima, Minima and Saddle Point of Functions of Two Variables, Beta and Gamma Functions, Double and Triple Integrals, Change of Order of Integration in Double Integrals.

CO-5: To Determine Power Series Solution of Differential Equation, Bessel’s Equation, Legender’s Equation, Orthogonality of Function and Strum-Liouville Problem, Laplace and Inverse Laplace Transform, Solution of Integral Equation and System of Differential Equations Using the Laplace Transform, Partial Differential Equation of First and Second Order, Lagrange’s Solution, Homogeneous and Non-Homogeneous Equation with Constant Coefficient, Monge’s Method, Calculus of Variation-variational Problems with Fixed Boundaries and Moving Boundaries, Sufficient Condition for an Extremum.



CO-6: To Explain Analytic Conditions of Equilibrium, Stable and Unstable Equilibrium, Virtual Work, Catenary, Force in Three Dimensions, Poisot’s Central Axis, Null Lines and Planes, Simple Harmonic Motion, Elastic Strings, Velocities and Accelerations Along Radial and Transverse Direction, Projectile, Central Orbits, Kepler’s Laws of Motion, Tangential and Normal Velocities and Acceleration, Motion of Smooth and Rough Plane Curves, Motion in a resisting Medium, Motion of Particles of Varying Mass and Three Dimensions.

CO-7: To Derive Series of Arbitrary Terms and Double Series, Partial Derivation, Implicit Function, Fourier Series, Riemann Integral, Improper Integral and their Test of Convergence, Integral as a Function of a Parameter, Continuity and Differentiability of Complex Number, Analytic Function, Elementary Functions, Mapping by Elementary Function, Mobius Transformation, Conformal Mappings, Metric Spaces, Contraction Principle and Construction of Real Number From Rationals, Metric Space, Continuous Function, Compactness, Connectedness.

CO-8: To Find Group Automorphisms, Sylow’s Theorem, Structure Theorem for Finite Abelian Groups, Ring Theory, Modulus, Vector Spaces, Linear Transformation and their Representation as Matrices, Rank and Nullity of a Linear Transformation Dual and Bidual Spaces, Eigen Values and Eigen Vectors of a Linear Transformation and Diagonalization, Bilinear, Quadratic and Hermitian Forms, Inner Product.

 CO-9: To Explain Sets and Propositions, Relations and Functions, Graphs and Planar Graphs, Trees, Finite State Machines, Recurrence Relation and Recursive Algorithms, Boolean Algebra.

Programme and Course Outcomes for UG (B.Com.)

Programme Outcomes for UG: Commerce

After successful completion of three years Undergraduate B. Com general Degree Programme, the Students will be able:

● PO1 - To provide basic knowledge regarding financial accounting, business communication, business mathematics, business economics and business environment.

● PO2 - To acquaint skills regarding corporate accounting, company law, principles of business management, cost accounting business statistics and fundamentals of entrepreneurship.

● PO3- To know about various kinds of taxes, Implication of management of accounting in an organization and providing basic knowledge about Auditing and Marketing.



Course Outcomes for UG: Commerce

After completion of three years Course of Commerce, the students will be able:

CO-1: (Financial Accounting) - To understand basic accounting knowledge as applicable to business.

CO-2: (Business Communication) - To develop effective business communication skills.

CO-3: (Business Mathematics) - To have such minimum knowledge of mathematics as is applicable to business and economic situations.

CO-4: (Business Regulatory Framework) -To get a brief idea about the framework of Indian business laws.

CO-5: (Business Environment) - To familiarize themselves with the emerging issues in the business at the national and international level in the light of the policy of liberalization and globalization.

CO-6: (Business Economics) - To enhance their understanding regarding the principles of business economics as are applicable in business.

CO-7: (Corporate Accounting) - To develop awareness about corporate accounting in compliance with the provision of Companies Act, 2013.

CO-8: (Company Law) - To acquire basic knowledge of the provision of Companies Act, 2013, along with relevant case law.

CO-9: (Cost Accounting) - To understand the basic concepts and the tools used in cost accounting.

CO-10: (Principles of Business Management) - To familiarizes them with the basics of principles of management.

CO-11: (Business Statistics) -To understand various Statistical Techniques which are applicable to business.

CO-12: (Fundamentals of Entrepreneurship) -To understand the entrepreneurial culture and industrial growth so as to prepare them to set up and manage their own small units.

CO-13: (Income Tax) - To know about the basics concept of the income tax act and its implications.

CO-14: (Auditing) - To acquire the knowledge about principles and methods of auditing and their applications.

CO-15: (Indirect Taxes) - To acquire basic knowledge about GST and applying the provision of GST Law to various situations.

CO-16: (Management Accounting) -To understand the application of the accounting techniques which are useful for the managerial decision making.

CO-17: (Principles of Marketing) - To understand the concept of marketing and its applications.

CO-18: (International Marketing) - To acquire the conceptual knowledge regarding the operations of marketing in an international environment.

Programme and Course Outcomes for UG (B.A.)

Programme Outcomes for UG: Sociology

After successful completion of Undergraduate Three years B.A. general Degree Programme, the Students will be able:

• To study Introduction to Sociology, Contemporary Indian Society.

 • To learn Sociology of Tribal Society, Crime and Society.

• To understand Foundations of Sociological Thought, Methods of Social Research.

Course Outcomes for UG: Sociology

After completion of three years Course of Sociology the students will be able:

CO-1: To know the Meaning of Sociology, Basic Concepts, Social Institutions, Culture and Society, Social Stratification, Social Mobility, Social Change, Social System and Process, Social Process.

CO-2: To understand Classical View about Indian Society, Structure and Composition of Indian Society, Basic Institution of Indian Society, Familial Problems, Social Problems.

CO-3: To describe the Tribes Classification of Tribal People, Socio-culture Profile, Tribal Sensitization, and Problems of Tribal People.

CO-4: To aware Concept of Crime, School of Crime, Structure of Crime, Social Evils and Crime, Punishment Co-Relation Process.

CO-5: To know about these thinkers August Comte, Durkheim, Karl Marx, Max Weber, Pareto, Spencer, Thorstein Veblen, R.K. Morton, Development of Sociological thought in India, Mahatma Gandhi, Radha Kamal Mukherjee,

CO-6: To describe the Social Research, Qualitative Research, Research Design, Tools and Techniques of Social Research, Social Statistics.

Program Outcome for UG: Political Science

After successful completion of Undergraduate Three years B.A. general Degree Programme, the Students will be able:

• To know Political Theory, Indian Govt. and Politics.

 • To know the Theory and Govt. Political Thought, Comparative Governments and Politics.

 • To understand International Politics and Foreign policy of India, Public administration.

Course Outcomes for UG: Political Science

After completion of three years Course of Political Science the students will be able:

 CO-1: To know the Meaning and definition of Political Science, State and its essential elements, Sovereignty and its pluralistic, kinds of Governments, Organs of Government, public welfare state.

CO-2: To understand Indian National Movement, Constitution of India, Union Executive, Union Judiciary, State Legislature.

CO-3: To know political thought of these thinkers Plato, Aristotle, Machiavelli, Hobbes, Lock and Rousseau, Bentham , mill, Green, Marx, Idealism, individualism, socialism, Liberalism, Fascism, Manu, Kautilya, Gandhi, Ambedkar, Deen Dayal Upadhyay.

CO-4: To acquire the knowledge of British Constitution, Constitutions of United State of America, Constitutions of Switzerland, Constitutions of China and Comparative politics.

CO-5: To learn International Politics, Various Theories of International politics, foreign policy of India, India Relations with neighbouring Countries, Some Major Issue of International politics.

CO-6: To known about Public Administration, Principles of Organization, Development Administration, Financial Administration, Corruption in Administration.

Program Outcome for UG: Hindi Literature

After successful completion of Undergraduate Three years B.A. general Degree Programme, the Students will be able:

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Course Outcomes for UG: Hindi Literature

After completion of three year course of B.A. with Hindi as a subject, students will have acquaintance with:

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• fo|kfFkZ;kas dks dFkk lkfgR; dh fofo/k izo`fRr;ksa dk Kku djkukA

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Program Outcome for UG: English Literature

After successful completion of Undergraduate Three years B.A. general Degree Programme, the Students will be able:

• To familiarize Students with the representative authors and works of British English Literature.

• To make the students understand the trends and History of English Literature.

 • To create among Students an interest in the text of Literature and make them understand the Literacy devices of Poetry, Drama, Prose and Fiction.

Course Outcomes for UG: English Literature

 After completion of three years course of English Literature the students will be able to:

CO-1: Acquire knowledge of the major Elizabethan Literatures like – Shakespeare, Milton, Pope and Bacon etc. They would know about the four genres of literature and an introduction to some literary terms.

CO-2: Learn about the English poets and authors from 1750 to 1900, including the Romanticists like - Blake, Wordsworth, Shelley, Keats and Browning etc. They would know about the fictional world of Dickens and Jane Austen.

CO-3: Know the nuances of the various forms of poetry and other genres of the Modern English period. They would be introduced to the charm of Yeats, Eliot, Oscar Wilde, Shaw and Kipling etc.

CO-4: Learn about various literary devices like simile, metaphor, alliteration etc. They would know the trends of Modern English Literature.

CO-5: Gain knowledge of all the genres of Indian Writing in English. They would enjoy the flavour of Indian English Literature of - Tagore, Sarojini Naidu, Karnad, Tendulkar and R.K. Narayan.

CO-6: The students would get a chance to learn about either the American Literature or the twentieth Century Literature in English (British) as per the paper they select.

Program Outcome for UG: Geography

After successful completion of Undergraduate Three years B.A. general Degree Programme, the Students will be able:

• To understand about Physical Geography and Human Geography.

 • To know Economic and Resources Geography and Geography of India.

• To knowledge about Remote Sensing and GIS and Geography of Chhattisgarh.

Course Outcomes for UG: Geography

After completion of three years Course of Geography the students will be able:

CO-1: To known the Nature and Scope of Physical Geography, Earth Movement, Climatology, Climatic Classification, Basic knowledge of Oceanography.

CO-2: To study the Definition and Scope of Human Geography, Classification of Human Races and their Distribution, Growth and Distribution of world Population, Rural and Urban Settlements, Global Emerge Environmental Issue.

CO-3: To understands the Meaning, Scope and Approaches to economic geography, Mineral Resources, Agriculture and Industrial Regions of the world and their Location, World Transportation, Conservation of resources.

 CO-4: To Determine Physical Features, Natural Resources, Cultural Features Population, Industries Localization to Special Reference of India, Detailed study of the Region of India.

CO-5: To learn the Basic of Remote Sensing, Types of Remote Sensing, Remote Sensing Program of India, Introduction of GIS, Data Model and Data Analysis.

CO-6: To gain the knowledge about Physical Features, Natural Resources, Agriculture and Population, Industries and Transpiration to Special reference of Chhattisgarh.

Program Outcome for UG: Economics

After successful completion of Undergraduate Three years B.A. general Degree Programme, the Students will be able:

• To know about Micro Economics and Indian Economy.

• Macro Economics and Money, Banking and Public Finance.

 • Development and Environmental Economics and Statistical Methods.

Course Outcomes for UG: Economics

After completion of three years Course of Economics the students will be able:

CO-1: To understand the Definitions Nature and scope of Economics, Production Decision and Production Function, Market Structure-Perfect and Imperfect Market, Marginal Productivity Theory of Distribution, Welfare Economics.

CO-2: To understand Pre and Post Independent Indian Economy, Population and Human Development, Indian Agriculture, Industrial Development in India, Foreign Trade of India.

CO-3: To know National Income, Consumption Function, Trade Cycle, International Trade, Functions and Objectives of International Monetary Fund.

CO-4: To acquire the knowledge Meaning and Function of Money, Commercial Banking-Meaning, Types and Functions, Definition Nature- Scope and Importance, Public Debt Sources of Public Borrowing.

CO-5: To learn Economics Growth and Development, Problems of Population and Growth Pattern of Population, Theory of Growth Models, Environmental use and Environmental Disruption as an Allocation Problem, Concepts of Intellectual Capital.

CO-6: To known about Introduction of Statistics, Measures of Central Tendency, Measures of Central Skewness, Probability, Dispersion, Correlation, Index Number, Analysis of Time-Series, Logarithm, Antilogarithm, Reciprocal Tables and Their Uses.

Program Outcome for UG: History

On completion of three-year degree course with History as specialization, students will be able to:

•Know about ancient, Medieval and modern history of India.

•Know about history of ancient human civilizations.

•Interpret different historical causation of war and pacts.

•Know about history and culture of the world.

Course outcome for UG: History

After successful completion of Undergraduate Three years B.A. general Degree with History as a optional course, the Students will be able:

CO1- Understand the salient features of Indus valley civilization.

CO2- Evaluate the features of Buddhism and Jainism.

CO3- Visualize the administration of mauryas and the art and architecture of mauryas.

CO4- Identify the administration of Guptas and their contribution of Nalanda University.

CO5- Examine the Arab conquest of sindhu and the battle of Tarain.

CO6 Introduction of Chhattisgarh – geographical condition, nomenclature, Regional and prominent dynasties, kalchuri dynesty.

CO7- Describe the Geographical discoveries and the Renaissance movement in Europe.

CO8- Assess the cause andeffects of Reformation and Counter Reformation movements.

CO9- Describe – Mercantilism, Colonialism theIndustrial Revolution.

CO10- The American war of Independence the French Revolution (1789 A.D.) causes and Impact the Napoleon era.

CO11- Conservatism: Vienna congress, Metternich; Internal and External policies. CO6- The Eastern Question; Causes, Crimean war, Berlin congress Unification of Italy and Germany.

CO12- Understand the foundation of the Delhi sultante and the sultante administration.

CO13- Identify the condition ofIndia under the Mughal Empire.

CO14- Explain the administration and art and architecture of sultante and Mughals.

CO15- Recognise the socio, economic and religions conditions under Vijayanagar Empire.

CO16- Analyse the rise ofthe Marathas and the contribution of Shivaji.

CO17- The Revolution of France from 1789 to 1815 A.D. National convention, Administration of directory.

CO18- Extend of British Empire: Carnatic war, Baksar war, and Plasi war. Subsidiary alliance. Commercialism: Industry and Business collapse permanent settlement: Ryatwari, Mahalwari.

CO19- Constitutional development of India-Diarchy of 1919 and specialty of constitutional of India.