Course Outcome B.Sc. (physics)

After compilation B.Sc.I in Physics Students become able to	
Course	Outcomes
PH-1.1 Classical Mechanics	CO-1.Understand Newton's Laws of motion and their applications such as inertia, Relation between force and momentum, action and their reaction force. CO-2. Know about Position, Velocity , acceleration and other properties of body in different co-ordinate system. CO-3. Gain the knowledge of motion in central force field CO-3. Classify elastic and inelastic scattering CO-4. Know the difference between Laboratory and centre of mass system CO-5. Understands conservation of linear ,angular,and energy conservation.
PH-1.2 Mechanics of rigid body	CO-1. To understand the moment of inertia and physical significance. CO-2. Know about Rotational motion of body CO-3. To study about potential well and kinetic and potential energy of oscillating body. CO-4 know about torsional pendulum. CO-5. Understanding differential for oscillation equation and its solution. CO-6.Study the spring and mass system. CO-7. Know the difference between simple and compound pendulum.
PH-1.3 Oscillation and superposition of wave	CO-1 learn about bifilar oscillator and Helmholtz resonator CO-2 understanding the superposition of two simple harmonic waves of frequency range 1:1 and 1:2 and lissaju diagram CO-3 know about damped oscillator and its physical significance in daily life CO-4 Know about driven harmonic oscillator and power absorption by oscillator CO-5 understanding Resonance and width of resonance
PH-1.4 Motion of charge particles in electric and magnetic field	CO-1 understand how to generate electric field and how to calculate electric field intensity CO-2 know the use of electron gun and know what is discharge tube. CO-3 understand difference between linear accelerator and cyclotron CO-4 Know about path of electron in electric field and magnetic field and path of electron in condition of Electric and magnetic field both are mutual perpendicular and parallel to each other. CO-5 Know the application of 180 deflection

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PH1.5 Elasticity	CO-1 Know difference between elastic and plastic body and significance of hooks law CO-2 Application of young modulus, bulk modulus and rigidity modulus and its application CO-3 understanding the significance of poison ratio and its relation with deferent modulus. CO-4 know the Application of cantilever and bending of beam in field of construction CO-5 know relation between velocity and cross section area in continuity equation in fluids. CO-6 classify the turbulent and streamline flow and coefficient of viscosity.
PH2.1 Differentiation and integration and Vector algebra	CO-1 able to calculate Repeated integral of a function of more than one variable Co-2 make essay the calculation by double and triple integration CO-3 Learn how to convert scalar field to vector field by grad of scalar field CO-4 Know physical significance of grad., div, and curl . CO-5 by Green and stocks theory we can convert surface integration to vol. integration and linear integration. CO-6 By network ckt like thavenin, nortan ,millman we can convert complicated ckt. To simple ckt
PH2.2 Electrostatic	CO-1 Know about nature of charge particle by coulombs law CO-2 Understand how to calculate electric field intensity due to deferent types of distribution of charges. Co-3 Learn about formation of dipole. And work done on dipole by electric field CO-4 To know about gauss law and their application to find out electric field intensity at any point CO-5 Know about basic concept of condenser and its types which is useful in daily life
PH2.3 Dielectric medium and current electricity	CO- Learn how to increase capacitance of capacitor by introduce dielectric CO-2 Learn about polarization and displacement vectors and their relations CO-3 by Classius mossottee we learn relation between polarisability,electric subcebility and dielectric constant CO-4 Know about growth and decay of current in circuit containing inductor and resistance CO-5 Know about Charging and discharging of current in circuit containing capacitor and resistance Co6 Learn about nature of alternating current in presence of inductor ,capacitor and resistance
PH2.4 magneto statics	CO-1 To understand magnetic properties of material. CO-2 By hysteresis loss we can understand effect of magnetic field. CO-3 To study about basic law of magneto statics in different form CO-4 Learn magnetic field due to long straight current carrying

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	conductor CO-5 learn about magnetic field of circular coil carrying current
PH2.5 Time varying Field	CO-1 Learn about electromagnetic induction and farade experiment of lectro magnetic induction. CO-2 Know about self induction and expression of self induction in long solenoid.

After compilation B.Sc.II in Physics Students become able to	
Course	Outcomes
PH-1.1 The law of thermodynamics	CO-1. By Zeroth law understand equivalency of temperature between two bodies. CO-2. Well Know about path and point function, CO-3. First law tells us conversation between heat and work.and needs of second law. CO-3.understand about Physical significance of entropy and concept of increase of entropy
PH-1.2 Thermodynamic relationships	CO-1. Know about application of thermodynamic potential. CO-2. Understand Maxwell Eqn and its application in surrounding life' CO-3. Joule Thomson cooling tells about relation between heating and cooling effect of gas . CO-4 Student can explain roll of entropy in adiabatic demagnetization. CO-5. Can explain method of production and determination of very low temperature. CO-6. Can explain black body radiation both lower and higher wavelength
PH-1.3 Kinetic theory and statistical physics	CO-1: Know the velocity distribution law. CO-2: To understand rms , max. velocity, average velocity etc. CO-3: To study Maxwell-Boltzmann statistics & its applications. CO-4: To understand above concepts through experiments in laboratory. CO-5: To develop numerical solving technique in students.
PH-1.4 Kinetic theory and statistical physics	CO-1: student can explain about phase space . CO-2: To understand concept of . thermodynamic probability CO-3: To can explain partition function and its physical significance. CO-4: To understand h as natural constant. CO-5: To solve case of one dim harmonic oscillation.
PH-1.5 Kinetic theory and statistical physics	CO-1. Know about concept of three statistics . CO-2. Understand bose Einstein application in black body radiation CO-3 Student can explain free electron concept in metal.
PH-2.1 Wave in media	CO-1 Student can better know about wave its type and nature CO-2 Propagation of energy in wave, ripples effect of wave of gravity

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	CO-3 Know about ultrasonic and infra sonic wave, its production and measurement. CO-4 Student can better explain reflection refraction and diffraction of sound CO-5 Principal pf sonar system and navigation ranging
PH-2.2 Optics and optical instuments	CO-1 understand about fermate principal of extreme path CO-2 To understand lense combination and thick lense. CO-3 better understand about telescope . CO-4 To understand aberration and there reduction CO-5 Know the aplantic points.
PH-2.3 Interference of light	CO-1 Know the superposition of light. CO-2 To understand lissaju diagram and its use in fashion designing. CO-3 To study concept of raillery refract meter. CO-4 To understand multiple beam interference. CO-5 To develop numerical solving technique in students.
PH-2.4 Diffraction and polarization of light	CO-1 Know the types of diffraction. CO-2 To understand diffraction through plane transmission grating. CO-3 To study zone plates. CO-4 To understand Brewster's law CO-5 To develop numerical solving technique in students CO-6 Know the Polarization. And Nicol's prism.
PH-2.5 Laser system	CO-1 Know the mechanism of Laser. CO-2 To understand types & applications of laser. CO-3 To study concept of holography. CO-4 To understand about concepts through experiments in laboratory. CO-5 To develop numerical solving technique in students.

After compilation B.Sc.III in Physics Students become able to	
Course	Outcomes
PH-1.1 Relativity	CO-1: Know the special theory of relativity. CO-2: To understand length contraction, Time dilation. CO-3: To study Einstein's mass-energy relation. CO-4: To understand above concepts through experiments in laboratory. CO-5: study Raman effect.
PH-1.2 Origin of Quantum theory	CO-1: To understand quantum numbers. CO-2: To understand mathematical operator's. CO-3: To study motion of particle in rectangular box. CO-4: To understand above concepts through experiments in laboratory.

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Course Outcome for B.Sc 1st Year

Zoology -Paper I (Title - Cell Biology and non- chordates)

Co-1.1 The cell (Prokaryote and eukaryote)

• Student can be understand the basic organisation of cell like- extra nuclear and nuclear.

• Plasma membrane, mitochondria ,ER Golgi body Ribosome and, Lysosome Nucleus, Chromosome DNA and RNA.

Co-1.2 Cell division (mitosis and meiosis)

• Student can be learned the different aspect cell division.
• An elementary idea of cancer cell and cell transformation.
• An elementary idea of immunity like innate and acquired immunity, Lymphoid organ , cell of immune system, antigen antibody and their interaction.

Co-1.3 Invertebrates

• Student can be learning about the basic taxonomy and systemic and classification of various tax a like
• Protozoa - type study - Parameresium.
• Protein- type study - scone

Co-1.4 Student can be learning about general character and classification of phylum platyhelminthes, nemahelmithes ,annelid and arthropod a up a order.
• Arthropod - pheretima

Co- 1.5 Student can be have learning about general character of phylum mollusc and eclinodemata up to order.
• mollusc - pile
• eclinodemata - Asterisks (starfish).

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Course Outcome for B.Sc 1st Year
Zoology Paper – II (Title - Chordate and Embryology)

Co2.1 student can be have learning about classification of hemichordates.

- Hemichordate - balanoglossum
- Classification of chordates up to order.
- protochordate - Amenioxusus
- A comparative about of Petromyzon and minion.

Co- 2.2 Student can be acquire knowledge about fishes amphibians and reptile.

- Fishes - skin and scales, migration in tissue ,parental in tissue.
- Amphibians - parental and nicotine .
- Reptilians- Poisonous and non -poisonous snakes .poison apparatus ,snake venom, and entire reptiles.

Co- 2. 3 Student can be acquire knowledge about birds mammals, and aquatic mammal and their adaptation.

- Birds- Height adaptation migration and periling mechanism , discuss birds and glorified reptiles.

Co – 2.4 student can be learn the different aspect of fertilization, gameto genesis .structure of gametes and type of egg.

- Cleavage , development of frog up to formation of three germ layer.
- parthenogenesis.

Co- 2.5 Student can be learn the different aspect of embryonic induction , different ions and vegetation.

- Development of click (a) up to formation of three germ layer.(b) extra embryonic membrane

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Course Outcome for B.Sc – Part- Two
Paper – I (Title - Antony & Physiology)

Co-I.1 Student can be have understood the structure of different system such as.

- Integumentary system and its derivatives structure of scale, their, and feather.
- Alimentary canal and digestive gland in vertebrates.-
- Respiratory organ- Gill and lungs ,air sac in bride.

Co-I.2 Student can be have understood the structure of different system such as.

- Endoskeleton-(a) axial skeleton- skull and vertebrae.

(b) Appendicle skeleton - limb and griddle

- Circulatory system b- Evolution of heart and aortic arches.
- urinogenitas system - Kidney and excretory system.

Co- I .3 Nervous system- General plan of brain and spinal cord .

- Ear and eye - Structure and function.
- Gonad and genital duly

Co - I.4 student can be developed knowledge about digestion and absorption of dietary component. Digestion and absorption of dietary components.

- Physiology of heart ,cardinal cycle and ECG.
- Blood coagulation.

Co- I.5• physiology of muscles contraction.

- Physiology of never impulse, synaptic transmission.

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Course Outcome for B.Sc – Part- Two

Paper II (Title - Vertebrate Endocrinology, Reproductive , Biology, Behaviour, Evolution Applied Zoology)

Co- II.1 Structure can be understand the endocrinology.

- Structure and trust of endodermic gland.
- Harmon secretor.
- Biosynthesis and secretion of thyroid adrenal, ovarian and testicular hormones.
- Endodermic disorders of pituitary, thyroid, adrenal and pancreas.

Co - II.2 Structure can be understand the reproductive biology

- Reproductive cycle bin vertebrate
- Menstrual , lactation and pregnancy
- Merilanism of parantation
- Hormonal regulation of gamete genesis

Co II.3 Student can be developed knowledge about

- Evidence of organic evolution.
- Theories of organic evolution.
- Variation , mutation , isolation and mitral selection.
- Evolution of horse.

Co II.4 Student can be developed knowledge about ethnology.

- prances and concept of ethnology.
- Pattern of behaviour taxis ,releases, drives and stenotype behaviour.
- Reproductive behavioural patterns.
- Drugs and behaviour, hormone and behaviour.

Co.II.5 Student can be developed knowledge about applied Zoology.

- prawn culture.
- Sericulture.
- Agriculture
- pesciculture (fish culture)
- poultry keeping
- Element of pest control 1.Chemical control

2.Biological Control

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Course Outcome for B.Sc Part -Three

Paper – I (Title - Ecology environmental- Biology , taxonomy, microbiology and medical Zoology)

Co-I.1 Student can be understanding the various feature and aspect of ecology like.

- Aim and stop of ecology
- Major ecosystem of the world
- Population - Characteristics and regulations of densities
- Communication and ecosystem
- biogeochemical cycles
- Air and water pollution
- Ecological superior

Co.I.2 Student can be understanding the various feature and aspen of ecology (Environmental biology) like

- Law of limiting factor
- Food chain in a fresh water ecosystem
- Energy flow in ecosystem
- Conversation of neutral resources
- Environmental import assessment

Co-1.3 Student can be learn detail about toxicology

- Definition of toxicology
- Classification of toxicology
- Principal of systematic toxicology
- Toxic agent and their action metallic and inorganic agene
- Animal poison - Snake venom, scorpion and bee poisoning

Co-I.4

- Student can be known about microbiology
- General and applied microbiology
- Microbiology and domestic water and sewage
- Microbiology of milk and products
- Industrial microbiology

Co-I.5 Students can be learn the different aspect of medical microbiology

- Brief introduction not pathogenic micro- viruses, Rickettsial, Spirochete and

.

- Brief amount of like history, pathogen city of the following pathogens can be reference to man prophylaxis and treatment.
- pathogenic hermitage- seliuostoma .
- Nematode pathogenic parasite of man.
- Vector insect .

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Course Outcome for B.Sc Part -Three
Paper II (Title - Genetic ,cell physiology, Biochemistry, Biotechnology, and Biotechnology and Bio technique.)

Co-II.1 Student can be learn the fundamental genetic like
- Linkage and linkage maps.
- Variant of get expression multiple alleles, lithogenlois pleiotropic gene ,gene inheritance, epispastics, get international.
- Sex chromosome system and six linkage
- Mutation and chromosomal alteration, meiotic consequences.
- Human genetics- Chromosomal and single gene disorder (Somatic cell genetic)

Co.II.2 Student can be understood the cell physiology like.
- General idea about PH and butter
- Transport across membrane- cell membrane, mitochondria and E.R
- Active transport and it's mechanism ,active transport in mitochondria , and ,E.R,
- Hydrolytic enzyme - their chemical natural, activation and specificity.

Co.II.3 Student can be understand basic and fundamental biochemistry of.
- Amino acid and peptide - Basic structure and biological functions.
- Carbohydrates and it's catabolism - glycol sis, glycol genesis, glycol genolysis coricycle .
- Lipid metabolism - oxidation of glycerol oxidation of fatty acids.
- protein metabolism - deamination,transmisation , transmethylation, biosynthesis of protein.

Co - II.4 Student can be understand the method of biotechnology.
- Biotechnology scope and importance,
- Recombinant DNA and gene cloning,,
- Application of biotechnology in I) Phermactical industry

ii) food processing industry,

Co,II,5 Student can be understood the process of Bio technique
- PH meter
- Colorimeter, Microscopy - light microscopy, phase contrast and electron microscope,
- Centrifugation
- Separation of bio molecules by chromatography, and electrophoresis,

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Course Outcomes of B.A. Part -One

Department of Political Science

Class	Paper	Course Outcomes
B.A. Part - One	Paper I (Political	CO1.Explaining nature and scope of Political Science. Discussing different approaches. CO2.Evaluting various theories of the origin of state. CO3.Explaining sovereignty and its pluralistic criticism. Discussing the concepts of right liberty equality and democracy. CO4.Evaluating various kinds of government. CO5.Explaining public welfare state party system social change
	Paper II (Indian Politics)	CO1.Studying India national movement -: First independence movement 1858 Constitutional development of India. CO2.Exploring the constitution of India characteristics, preamble sources federal system, fundamental rights directive principal, Constitution amendment process. CO3.Studying union executive: president vice President P.M parliament. CO4.Studying union judiciary. Supreme court organization. judinition review indicial activation. CO5.Studying state legislature: Legislative assembly and legislative council elections commission and election reforms. National and regional parties .major issues of Indian political cast religion.

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Course Outcomes of B.A. Part -Two
Department of Political Science

Class	Paper	Course Outcome
B.A. Part - Two	Paper I (Political Though)	CO1.Analysing the thought of Plato and Aristotle. CO2.Analysing the through of Machiavelli Hobbes, Locke and Rousseau. CO3.Analysing the political through of mark and greens. CO4.Analysing the criticism and feature of idealism, individualism. CO5.Analysing of political through of Manu, Kausalya ,Gandhi Ambedkar and Dindayal Upadayay.
	Paper II (Comparative Government and politics)	CO1.Accuring knowledge about the structure and function of four major governments, (USA Britain, Switzerland and chain). CO2.Having a comparative of these government in a glance. CO3.Exploring the salient features of the constitution of these countries. CO4.Classifying the different types of political system and system theory. CO5.Evaluating the concept of political development political socialization and political culture.

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Course Outcomes of B.A. Part -Three
Department of Political Science

Class	Paper	Course Outcome
B.A. Part-Three	Paper I (International politics)	CO1.Explaining, meaning, mature, scope and different approaches of international politics. CO2.Explainig certain basic concepts link power, struggle for power retaining power struggle for power retaining power and demonstrating power. CO3.Explaining the concept of balance of power and the concept of collective security. CO4.Studying of definition, kinds functions and roiled diplomacy. CO5.Explaining certain basic concepts like globalization environmentalism and human rights.
	Paper II Public Administration	CO1.Explaining the nature scope and evolution of public administration, private and public administration. CO2.Analysing the methods and approaches of public administration. CO3.Understanding the concept of new public administration. CO4.Discussing relation between politics and public administration. CO5.Explaining the administrative process leadership, decision making Communication and accountability. CO6.Explaing certain concepts of bureaucracy and budget. CO7.Understanding public administration in the age of globalization and liberalization. CO8.Evaluating judicial and legislative control over administration.

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Course Outcomes B.Sc Part - One

Botany- Paper I (Bacteria, viruses ,fungi, Lichens and Algae)

Unit 1.1 Viruses

Co 1.Understand General Character & Types Of Virus.

Co 2.Understand genetic material & multiplication of virus.

Co 3.Understand economic importance structure & multiplication in bacteriophase

Unit 1.2 Bacteria

Co 1.Understand general character & classification 4 fine structure of Bacteria.

Co 2.Understand Gram Positive & Gram Negative Bacteria.

Co 3.Understand Reproduction in Bacteria.

Unit 1.3 Fungi

Co 1.Understand general account & range of Pthallus organization of fungi.

Co 2.Understand Heterothallism & Per asexuality of fungi.

Co 3.Understand Economic importance of fungi.

Co 3.Understand life cycle of some fungi

Unit 1.4 Algae

Co1.Understand general character thallus organization in Algae

Co2.Learn gaidukav phenomenon

Co3.Understand life cycle pattern and economic importance classification systematic position occurrence structure & detail study of some algae.

Unit 1.5 Lichens

Co 1.Understand general account types, structure ,nutrition and reproduction & economic importance of cytoplasm

Co 2.Understand structure & importance of blue green algae.

Co 3.Understand mushseom biotechnology

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Course Outcomes B.Sc I Part - One
Botany Paper II (Bryophytes, pteridophytes, Gymnosperm, and Palaeobotany)

Unit 1.1 Bryophytes

Co 1. Understand general characters & pthallus organization

Co 2. Understand classification ,ecological importance. systematic position occurrence morphology & reproduction structure of bryophytes

Unit 1.2 Pteridophytes

Co1.Understand general character & affinity of pteridophyes

Co2.Understand steles system in pteridophytes.

Co3.Understand telome theory.

Unit 1.3 Pteriodophytes

Co1.Understand systematic position occurrence morphology anatomy & reproductive structure of some pteridophytes .

Unit 1.4 Gymnosperm

Co1.Understand general character & affinity economic importance & classification morphology anatomy and reproduction in some gymnosperm plants.

Unit 1.5 Palaebotany

Co1.Understand geological time scale.

Co2.Know types of fossils.

Co3.Learn some fossils gymnosperm .

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Course Outcomes B.Sc Part - Two

Botany – Paper I (Plant taxonomy .Economic, Botany Plants Anatomy .& Embryology)

Unit 1.1 – Plant taxonomy

Co1. Understand bantam & hooker Classification
Co2. Understand international code of nomenclature ,for algae ,fungi
Co3. Understand numerical taxonomy and chemotaxonomy
Co4.known presentation of plants material and herbarium techniques.
Co5.Understand botanical gender knew botanical garden of England.

Unit 1.2 Economic

Co1.Understand systematic position distinguishing .
Co2.Character and economic importance of the following families ranuncluceae solanceae ,euphosbiance .malrancea

Unit 1.3 Economic Botany

Co1.Understand fiber yielding plants.
Co2.Understand timer yielding plants.
Co3.Understand medicinal plants.
Co4.Understand food plant.
Co5.Understand food plants, spices ,beverage.

Unit 1.4 Plant Anatomy

Co1. Understand root & Sheet apical ministers.
Co2. Understand permanent tissue.
Co3. Understand anatomy of stem ,root & leaf.
Co4. Understand secondary growth in root ,stem & leaf.

Unit 1.5 Embryology

Co1.Understand flowers as a reproductive organ.
Co2.Learn also anther ovule.
Co3. Understand development of male & female gamnotop.
Co4. Known pollination incompatibility fertilization .endosperm embryo polyembryony apomixes & parthenocarpy

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Course Outcomes of B.Sc Part – Two
Botany Paper II (Ecology and plant physiology

Unit 2.1

Co.1 Understand introduction and scope of ecology and learn also ecological factors .

Co.2 Understand morphological and anatomical adaptation hydrophytes, xerophytes & epiphytes.

Unit 2.2

Co1.Understand population and community characteristics.

Co2.Understand Raunkaises life form .

Co3.Understand population integration.

Co4.Understand ecological succession and edge effect, ecological niche ecotypes Ecads , & keystone species.

Co5.Understand concept of ecosystem & biogeochemical cycles.

Unit -2.3 Plant water selection

Co1.Understand diffusion permeability, osmosis, imbibitions, plasmolysis, osmotic potential and water potential.

Co2.Understand water holding capacity & observation of water.

Co3.Understand theories of ascent of sap.

Co4.Understand transposition stomata movement and significance of transpiration & guttation.

Unit -2.4 Photosynthesis

Co1.Understand photosynthesis apparatus and pigments.

Co2.Understand ATP synthesis C3.C4. hi and CAM pathway.

Co3.Understand Photorespiration and learn also factors affecting photosynthesis

Co4.Understand respiration, aerobic & anaerobic respiration. gycloysis Krebs cycle and factors affected respiration.

Unit- 2.5 Plant growth hormones

Co1.Understand some plant hormones.

Co2.Understand physiology of following & Florien concept .

Co3.Understand photoperiodic and verbalization.

Co4 Understand also seed clormaney and germination

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Course Outcomes of B.Sc Part – Three
Botany Paper I(Plant Physiology biochemistry and biotechnology)

Unit 1.1 Plant Water selection

CO1.Understand important of water to plant life.
CO2.Understand physical properties of water diffusion osmosis absorption.
CO3.Understand transport of water and transpiration.

Unit 1.2 Transport of Organic substance

CO1.Understand mechanism of phloem transport and square link relationship.
CO2.Understand basic of enzymology.
CO3.Understhand photosynthesis, photosynthesis pigment and scheme Calvin cycle C4 pathway.CAM plants photorespiration.

Unit 1.3 Respiration

CO1.Understand ATP the biological currency.
CO2.Learn to aerobic and anaerobic respiration and Krebs cycle.ETC pentose phosphate Pathway and Redox potential.
CO3.Understand nitrogen and lipid metabolism.

Unit 1.4 Growth and development.

CO1. Understand definition phases of growth of development
CO2.Understand seed dormancy and seed germination.
CO3.Understand the concept of photoperiodism florgen concept and also
CO4.Understand physiology of sentence fruit spending and plant hormones.
CO5.Understand photomarphogenesis phytochrome and cytochrome.

Unit 1.5 Genetic Engineering

CO1.Understand tools and techniques of recombinant DNA technology.
CO2.Learn to cloning vector genomic and C DNA library and also learn to transposable elements of gene mapping.
CO3.Understand biotechnology plant tissue culture totipotency agro bacterium.
CO4.Understand gene delivery of marks gene.

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Course Outcomes of B.Sc Part – Three
Botany Paper II (Ecology and utilization of plant)

Unit 2.1Plant and Environment

CO1 Understand atmospheric water light temperature soil profile and biota.

CO2.Understand morphological anatomical and physiological responses to plant to water hydrophytes and xerophytes.

CO3.Student learn temperature thermoperioiocity light photoperiodicm and solubility.

Unit2.2 Community Ecology

CO1.Students understand community frequency density cover life from.

CO2.Student learn also biological spectrum and ecological succession.

CO3.Understand ecosystem structure abiotic and biotic components.

CO4.Learn also food web food chain and ecological pyramid energy flow biological cycle of Corbin.

Unit 2.3

CO1.Understand population ecology, growth curve ecotypes E-Card, biogeographically region of India

Unit 2.4 Utilization of plants

CO1.Understand food plants rice, wheat ,maize potato.

CO2.Understand fiber plant

CO3.Understand vegetable oils.

Unit 2.5 Economic Botany

CO1.Understand spice plant.

CO2.Understand medicinal plant.

CO3.Understand beverages and rubber.

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Course Outcome

भूगोंल बी.ए प्रथम वर्ष – (प्रथम प्रश्न पत्र)

भौतिक भूगोल

1.1 भौतिक भूगोल की प्रकृति एवं विषय क्षेत्र पृथ्वी की उत्पति,भूगर्मिक समय सारणी पृथ्वी की आंतरिक संरचना , महाद्विपीय विस्थापन सिद्धांत प्लेट विवर्तनिकी भू-संतुलन सिद्धांत,की जानकारी होती हैं

1.2 पृथ्वी की भूगतियां ,ज्वालमुखी, भूकंप, चट्टानें,अपश्रय, अपरदन, अपरदन चक्र, नदी अपरदन,हिम अपरदन , वायु अपरदन,काष्ट स्थलाकृति, एवं समुद्री अपरदन के बारे में जानकार होते हैं।

1.3 मौसम एवं जलवायु के तत्व, वायुमंडल की संरचना,विश्व जलवायु, तापमान, दबाव, और हवायें के बारे में जानकारी होती है।

1.4 वायुमंडल आर्द्रता एवं उनका वितरण जलवायु वर्गीकरण एवं विश्व वितरण को समझ जाते हैं।

1.5 महासागर एवं उनके नितल - अटलांटिक, प्रशांत महासागर एवं हिन्द महासागर ,महासागरीय जल का तापमान एवं लवणता, महासागरी लहरें धाराएं, महासागरीय निक्षेप प्रवाल भिति, ज्वार-भाटा एवं सागरीय संसाधन के बारे में जानकारी होती हैं ।

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बी.ए प्रथम वर्ष भूगोंल (द्वितीय प्रश्न पत्र)

2.मानव भूगोल

2.1 मानव भूगोल की प्रकृति एवं विषय क्षेत्र ,मानव -पर्यावरण संबंध नियतिवाद , समयवाद , एवं नव निश्चयवाद को समझ जाते हैं।

2.2 मानव जनजातियों का वर्गीकरण, वितरण, एस्किमो, बुरामैन, पिग्मी, गोंड और नागा जनजातियों के बारे में जानकारी हो जाती हैं।

2.3 जनसंख्या का वितरण एवं विश्व प्रतिरूप, जनाधिक्य, एवं न्युन जनसंख्या प्रवास के बारे में जानकारी होती हैं।

2.4 अधिवास-नगरीय अधिवास नगरीकरण, अधिवास, नगरीय प्रतिरूप, ग्रामीण अधिवास, ग्रामीण अधिवास, प्रतिरूप, के बारे में जानकारी होती हैं।

2.5 जलवायु परिवर्तन, भूमंडलीकरण,वायु,जल, एवं मृदा प्रदूषण, की समझ हो जाती हैं।

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बी.ए द्वितीय वर्ष भूगोंल (प्रथम प्रश्न पत्र)

1. जलवायु एवं समुद्र विज्ञान

1.1 वायुमंडल की संगठन एवं परतें,सूर्यताप एवं वायुमंडलीय तापमान के बारे में विधार्थी समझ जाते हैं।

1.2 वायुमंडलीय दाब, हवाएं के संबंध में वायु राशियां एवं वातग्र के संबंध में वायु राशियां जानकारीयां होती हैं।

1.3 चक्रवात,प्रति चक्रवात, वायुमंडलीय आर्द्रता, विश्व जलवायु एवं वायुमंडलीय प्रदूषण, एवं भूमंडलीय ताप वृत्ति के संबंध में जान जाते हैं।

1.4 महासागरों के उच्चावच, तापमान महासागरों में लणवता,की जानकारी होती हैं।

1.5 लहरें एवं धाराऐं ,ज्वार-भाटा, महासागरीय तल के निक्षेप एवं प्रवाह भित्ती के संबंध में जानकारी हो जाती हैं।

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बी.ए द्वितीय वर्ष भूगोंल (द्वितीय प्रश्न पत्र)

प्रादेशिक भूगोल (उत्तरी अमेरिका महाद्वीप के संबंध मे)

1.1 उत्तरी अमेरिका महाद्वीप के उच्चावच नदियों, जलवायु एवं महाद्वीप की मिट्टीयां के बारे में समझ जाते हैं।

1.2 उत्तरी अमेरिका के वनस्पति, खनिज एवं शक्ति संसाधनों, के संबंध में समझ आ जाती हैं।

1.3 उत्तरी अमेरिका महाद्वीप की कृषि संबंधी जानकारियां हों जाती हैं।

1.4 उत्तरी अमेरिका महाद्वीप के उपयोग धंधों, वहां की जनसंख्या व्यापार एवं परिवहन की जानकारी हो जाती हैं।

1.5 उत्तरी अमेरिका महाद्वीप के महत्त्वपूर्ण प्राकृतिक प्रदेशों की जानकारी हो जाती हैं।

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बी.ए तृतीय वर्ष भूगोंल (प्रथम प्रश्न पत्र)

संसाधन एवं पर्यावरण संसाधन

1.1 पर्यावरण तथा संसाधन संबंध, एवं संसाधन मूल्यांकन के बारे में जान जाते हैं।

1.2 जलसंसाधनों, खनिज एवं शक्ति संसाधनों प्राकृतिक वनस्पति मिट्टीयां के बारे में जान जाते हैं।

1.3 मानव संसाधन एवं संसाधन उपयोग की जानकारी हो जाती हैं।

पर्यावरण

1.4 मानव पर्यावरण संबंध, विश्व जनसंख्या, अर्थव्यवस्था, पर्यावरण प्रकोप , के संबंध में विधार्थी जान जाते हैं।

1.5 पर्यावरण संरक्षण,जैव विविधता के बारे में जानकारी हो जाती हैं।

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बी.ए तृतीय वर्ष भूगोंल (द्वितीय प्रश्न पत्र)

भारत का भूगोल छत्तीसगढ़ के विशेष संदर्भ में

भारत

1.1 भारत की उच्चावच, नदियों, मिट्टी जलवायु के बारे में जानकारी हो जाती हैं।

1.2 भारत के प्रमुख वनस्पतियों खनिज एवं शक्ति संसाधनों से संबंधित जानकारी हो जाती हैं।

1.3 भारत के कृषि के संबंध, उपयोग धंधे, जनसंख्या, भारतीय परिवहन व्यवस्था एवं व्यापार के बारे में जानकारी हो जाती हैं।

छत्तीसगढ़

1.4 छत्तीसगढ़ की उच्चावच, मिट्टी, वनस्पति, नदियों, कृषि, उपयोग, धंधों की जानकारी हो जाती हैं।

1.5 छत्तीसगढ़ जनसंख्या, समाजिक विकास,छ.ग,की जनजातियों के बारे में जानकारियां हों जाती हैं।

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बी .ए ,बी.एस.सी , बीकॉम प्रथम वर्ष

विषय – आधार पाठ्यक्रम हिन्दी भाषा

इकाई 1– पल्लवन , पत्राचार ,अनुवाद एवं पारिभाषिक शब्दावली की जानकारी होना ।

इकाई 2– शब्द शुद्धि, वाक्य शुद्धि ,शब्द ज्ञान को जानकर उसका प्रयोग कर लेता हैं। हिन्दी भाषा के पर्यायवाची , विलोम ,अनेकार्थी, समश्रुत शब्दों में विद्यार्थी का ज्ञानवर्द्धन होता हैं।

इकाई 3 – देवनागरी लिपि के नामकरण ,स्वरूप एवं उसकी विशेषताओं से विद्यार्थी अवगत होता है । संक्षेपण कार्य में विद्यार्थी पारंगत होता है ।

इकाई 4 – कम्प्यूटर का परिचय एवं कम्प्यूटर में हिन्दी के अनुप्रयोग को विद्यार्थी जानने लगते हैं ।

इकाई 5 – हिन्दी भाषा के विविध स्वरूप–मानक , अमानक एव उपमानक भाषाओं का ज्ञान होता हैं।

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बी .ए ,बी.एस.सी , बीकॉम द्वितीय वर्ष

विषय –आधार पाठ्यक्रम हिन्दी भाषा

खण्ड(क) – चोरी एवं प्रायश्चित (महात्मा गाँधी) पाठ के द्वारा विद्यार्थियों में सदगुणों एवं चरित्र निर्माण के भाव जागृत होते हैं। विद्यार्थी समय प्रबंधन एवं क्षेत्रीय विभूति डॉ. खूबचंद बघेल के व्यक्तित्व के बारे में जानते हैं।

खण्ड(ख) – हिन्दी भाषा एवं उसके विविध रूपों के बारे में विद्यार्थी में समझ का विकास होता है।

खण्ड (ग) – विद्यार्थी अंग्रेजी से हिन्दी में अनुवाद करने में सक्षम होते है। विद्यार्थी क्रिया ,संधि एव समास को समझकर उसके प्रकारों के अनुसार पहचानकर लेते हैं ।

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बी .ए ,बी.एस.सी , बीकॉम तृतीय वर्ष

विषय –आधार पाठ्यक्रम हिन्दी भाषा

इकाई1–वैश्वीकरण पर संस्कृतियों का प्रभाव , कथन की शैलियों मूल्यांकनपरक शैली , व्याख्यात्मक ,विवरणात्मक ,विचारात्मक शैलियों की जानकारी विद्यार्थियों को होती हैं।

इकाई 2–विकासशील देशों की समस्याओं एवं मानव विकास प्रतिवेदन को विद्यार्थी समझता हैं।विकासशील देशों के विकास हेतु योजनाओं का कियान्वन में बाधाओं के प्रति विद्यार्थियों में समझ का विकास होता है।

इकाई3 – आधुनिक तकनीकी सभ्यता, पारिस्थितिकी तंत्र के घटकों को विद्यार्थी समझता है।पर्यावरण प्रदूषण एवं उसके प्रकारों की जानकारी विद्यार्थियों को होती हैं। पत्रों के प्रकारों को जानकर विद्यार्थी लिखने का कौशल विकसित करता हैं ।

इकाई 4– अनुवाद को समझकर विद्यार्थी हिन्दी से अंग्रेजी एवं अंग्रेजी से हिन्दी भाषा में अनुवाद कर लेता हैं।

इकाई 5 – ऊर्जा के परंपरागत एवं गैरपरंपरागत स्रोतों की जानकारी विद्यार्थी को होती है।प्रतिवेदन एवं उसकी विशेषताओं को समझकर प्रतिवेदन लिखने में विद्यार्थी दक्ष हो जाता हैं ।

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बी.ए.। विषय – हिन्दी साहित्य

प्रश्न पत्र 1.1 – कबीर एवं जायसी के व्यक्तित्व एवं कृतित्व को विद्यार्थी समझता है ।

प्रश्न पत्र 2.1 – प्रेमचंद के व्यक्तित्व एवं गबन उपन्यास को विद्यार्थी समझता है।

प्रश्न पत्र 1.2 – सूरदास एवं तुलसीदास के व्यक्तित्व एवं कृतित्व को विद्यार्थी समझता है ।

प्रश्न पत्र 2.2 – 'कफन' 'आकाशदीप' एवं ' परदा ' कहानी के कथानक एवं उद्देश्य के प्रति विद्यार्थी में समझ का विकास होता हैं।

प्रश्न पत्र 1.3 – तुलसीदास कृत रामचरितमानस के अयोध्या काण्ड के पदों का अर्थ विद्यार्थी द्वारा ग्रहय किया जाता हैं।

प्रश्न पत्र 2.3 – 'ठेस' एवं 'मलबे का मालिक' कहानी के कथा नक एवं उद्देश्य को विद्यार्थी समझता हैं।

प्रश्न पत्र 1.4 – घनानन्द के व्यक्तित्व एवं कृतित्व को विद्यार्थी समझता है ।

प्रश्न पत्र 2.4 – 'चीफ की दावत ' एवं ' जली हुई रस्सी 'कहानी के कथानक एवं उद्देश्य के प्रति विद्यार्थी में समझ का विकास होता हैं।

प्रश्न पत्र 1.5 – विद्यापति , रहीम एवं रसखान के जीवन एवं कृतियों की मूलभुत जानकारी विद्यार्थी को होती हैं ।

प्रश्न पत्र 2.5 – 'जली हुई रस्सी ' एवं 'गदल' कहानी के पात्रों के चरित्र की व्याख्या विद्यार्थी कर लेता हैं।

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बी.ए.।। विषय – हिन्दी साहित्य

प्रश्न पत्र 1.1 – मैथिलीशरण गुप्त , सूर्यकान्त त्रिपाठी निराला के व्यक्तित्व एवं कृतित्व को विद्यार्थी समझता हैं।

प्रश्न पत्र 2.2 – भारतेन्दु हरिशचंद्र के व्यक्तित्व एवं अंधेर नगरी नाटक के उद्देश्य एवं पात्रों का ज्ञान विद्यार्थी को होता हैं।

प्रश्न पत्र 1.2 – सुमित्रानंदन पंत के व्यक्तिव एवं कृतित्व को विद्यार्थी समझता हैं।

प्रश्न पत्र 2.2 – 'क्रोध,' 'बसंत' निबंध का सार तत्व विद्यार्थी ग्रहण करता हैं।

प्रश्न पत्र 1.3 – प्रयोगवाद एवं अज्ञेय की काव्यगत विशेषताओं को विद्यार्थी समझता हैं।

प्रश्न पत्र 2.3 – डॉ. रामकुमार वर्मा एवं भुनेश्वर के व्यक्तित्व को समझकर विद्यार्थी 'औरंगजेब की एक रात ' एवं 'स्ट्राइक' एकांकी की संवाद योजना का ज्ञान प्राप्त करता हैं।

प्रश्न पत्र 1.4 – प्रयोगवाद, नयी कविताओं की विशेषताओं के प्रति विद्यार्थी में समझ का विकास हुआ ।

प्रश्न पत्र 2.4 – 'दस हजार' एवं 'मम्मी ठकुराइन' के कथानकों की समझ विद्यार्थी में विकसित होती हैं।

प्रश्न पत्र 1.5 – कवियों एवं उनकी रचनाओं से संबधित प्रश्नों का उत्तर देने में विद्यार्थी समर्थ बने।

प्रश्न पत्र 2.5 – 'उस अमराई ने राम – राम कही' एवं 'बेईमानी की परत' निबंध के सार एवं उनकी निबंधकला को विद्यार्थी समझता हैं।

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बी.ए.।।। विषय – हिन्दी साहित्य

प्रश्न पत्र 1.1– संत धर्मदास के पदों की व्याख्या विद्यार्थी कर लेता हैं। लखनलाल गुप्ता डॉ.विनय पाठक , मुकन्द कौशल ,डॉ.सत्यभामा अडिल के व्यक्तित्व एवं कृतित्व के प्रति विद्यार्थी में समझ का विकास होता हैं।

प्रश्न पत्र 2.1– भाषा के विविध रूप – राष्ट्रभाषा , राजभाषा , बोली, सम्पर्क भाषा को विद्यार्थी समझने लगता हैं।

प्रश्न पत्र 1.2 – छत्तीसगढ़ी कहावतों एवं लोकक्तियों का ज्ञान विद्यार्थी को होता हैं।

प्रश्न पत्र 2.2 – तत्सम , तद्भव , आगत,एवं देशज शब्दों का वर्गीकरण विद्यार्थी कर लेता हैं।

प्रश्न पत्र 1.3 – छत्तीसगढ़ी भाषा के क्षेत्र एवं विविध रूपों ,छत्तीसगढ़ी साहित्य का विकास यात्रा को विद्यार्थी समझता हैं।

प्रश्न पत्र 2.3 – भक्तिकाल की विभिन्न काव्यधाराओं एवं प्रमुख कवियों ,छायावाद ,की विशेषताओं के प्रति विद्यार्थी में समझ विकसित होती हैं।

प्रश्न पत्र 1.4 – कपिलनाथ कश्यप,पं,सुंदरलाल शर्मा एवं रामचन्द्र देशमुख का व्यक्तित्व एवं उनके छत्तीसगढ़ी साहित्य एवं लोककला में योगदान को विद्यार्थी समझता हैं।

प्रश्न पत्र 2.4 – काव्य स्वरूप , काव्य के तत्व एवं काव्य प्रयोजन का ज्ञान विद्यार्थी को होता हैं।

प्रश्न पत्र 1.5 – छत्तीसगढ़ी भाषा,संस्कृति एवं व्याकरण का ज्ञान विद्यार्थी को होता हैं।

प्रश्न पत्र 2.5 – रस,छंद एवं अलंकारों को सोदाहरण विद्यार्थी जानता हैं।

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Course Outcome B.A. Part-One
English Literature(Paper I)

Unit 1.

CO1. To introduce students to different ages ,moment and literary terms.
CO2. To analyze how Shakespeare universalize human emotions.
CO3.Discribe and discuss poems from John Milton.
CO4.To introduce sonnet of John Donne and Shakespeare.
CO5.Appreciate poetic beauty and value.

Unit 2.

CO1.To introduce sonnet of john Donne .
CO2.Know about an essay on criticism by the Alexander Pope.
CO3.To discuss distinctive features of poetry and essays of the writers pope and John Donne.

Unit 3.

CO1. To display a working knowledge of the novel as a literary genre.
CO2.To discuss distinctive of modern prose.
CO3. Understand the different genre of literature.
CO4. Understand to introduce sonnet and essays of bacon, Addison and Steele.

Unit 4.

CO1. To display a working knowledge of the novel as a literary genre Jonathan swift the battle of books.
CO2. Demonstrate the different library cut two in reaction to the Drama
CO3. Explain various forms of drama by Shakespeare's the merchant of Venice.

Unit 5.

CO1.To give introduction to beginning of drama and discuss the distinction features of Shakespeare's drama. The merchant of Venice.

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Course Outcome B.A. Part-One
English Literature(Paper II)

Unit 1.

CO1. To account students with the distinctive features of transitional age and the poet and poetry - blake.

CO2.Features of transitional age and poets and poetry Wordsworth and Coleridge

CO3.To introduce romantic poetry and poets Shelley.

Unit 2.

CO1. Understand about romantic poetry of Keats.

CO2. To make students aware of the characteristics features of Victorian poetry and poets by Tennyson.

CO3. Students aware of the characteristics features of poetry by Browning.

Unit 3,4

CO1.To discuss the prose writer's of Victorian age and essay of the written by writer Charles lamb.

CO2. To discuss the prose on actors and acting by hotlist

Unit 5.

CO1. To discuss the features of novel of the writers Jane Austen.

CO2. To identify and describe novel and novelists of romantic and Victorian age Charles Dickens.

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Course Outcome B.A./ B.Sc /B.Com Part-One
English Language

CO1. The students will get familiar with the main event, conflicts, inventions and rich history of nacre l Indian.

CO2. On successful completion of the program the students can be able to gain knowledge on fundamental principal of English grammar including parts of speech sentence type etc.

CO3. The program develops competence and communication skills in the language so that they might participate in all India as well as state services and other competitive examinations.

CO4. The students can be able to gain knowledge of including parts of speech sentence type, sentence analysis, simple compound and complex sentence, pronoun usage, punctuation, capitalization etc.

CO5. Students can be study the contribution of different dynasties in India history.

CO6. The students know about the great kings in India and different religions.

CO7. Learners will value and appreciate the importance of the English language as a key to learning.

CO8. Learners will acquire ability to communicate through oral and written texts.

CO9. To develop reaching, writing, speaking listening skills.

CO10. The program develops competence and communication skill in the language that they might participate in all India.

CO11. Writing news script, essay, paragraph review etc.

CO12. Writing of resume, letter of application business letters.

CO13. Use perfect from of models to express advisability.

CO14. Use perfect tense with increasing accuracy.

CO15. Recognize and use causative nearby.

CO16. Students know about objective or multiple choice texts.

CO17. Understanding of the passage in question and issues with reference to words and usage within the passage.

CO18. Students know about paragraph writing.

CO19. Students can be write formal are informal letter.

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Course Outcome of B.A./ B.Sc /B.Com (Part-Two)
English Language

CO1.Study the Indian out traditional which one of the oldest living ant traditions in the world.

CO2.The art of the country with its history social & economical perspective.

CO3.Excavation of the sites of the old towns like Harappa Mohenjo-Daro taxicab information of other ancient monuments.

CO4.Evalute the knowledge of vocabulary.

CO5.Students would gain knowledge idea of land revenue, economic conditions of India of and describe revolt 1857.

CO6.Understand different cultures of the time.

CO7.To prepare the students with vocabulary and grammar.

CO8.The program develops competence and communication skills in the language that they might participate in all India.

CO9.The students can be able to know the history of mankind, it Evolution, progress and mankind of our evaluation.

CO10.The students can be sensitive to the economical issues around them.

CO11.The students will study the process of decline of the great dynasties.

CO12.Students will heighten their awareness of correct usage of English grammar in writing and speaking.

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Course Outcome of B.A./ B.Sc /B.Com Part-Three
English Language

CO1.The students would gain a brief understanding of the social particle issues.

CO2.familiarilty with value of Indian life and social system.

CO3.Development of Indian in the modern context.

CO4.Development of linguistics competence and communication skills.

CO5.Writing skills through essay writing and comprehension.

CO6.Ability to discuss and respond to the content of the passage.

CO7.The students know about the history of various period and scientists.

CO8.Students should be able to the basic needs and quality of life.

CO9.Study of social organizations in the Indian which is after remarked as the caste system.

CO10.All forms of human organizations that of state.

CO11.Discuss the contemporary environmental problems.

CO12.It will make them aware about the current issue like how to fight disease, water pollution, the after effects of was and uses of computer etc.

CO13.They can be famriliazed with the national heritage and the value of Indians life and social system.

CO14.They can be also get familiarized with the problem of developing countries.

CO15.To develop their linguistics competence and communicative skills.

CO16.Basic knowledge of essay & paragraph writing.

CO17.Students can be able to write letters in the correct format.

CO18.Students understand to explain grammars stem such as idioms phases and repeat speech.

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Course Outcome of B.A. Part-Three
India Writing in English -I

CO1.To introduce the social, culture, and economic background to India writing in English and discuss about the Indian renaissance

CO2.Develop the critical understanding of literature.

CO3.Acquire knowledge and acquaintances to India writing in English

CO4.To discuss distinctive features of Indo - Anglican poetry and poets taro duff tag are ,Kamala das , and shiv.k Kumar.

CO5.To discuss the features of prose writing in indo-Anglican literature Mural Choudhury My birth place and Dr.S Radha Krishnan The cell of the suffering.

CO6.Learn to use literature to develop their moral and social serve.

CO7.Develop of writing, analytical and expressive skills.

CO8.To explore the growth of Indian drama with reference to Garish karnads.

CO9.To trace the development of Indian novels and analyzer. Naysayers the guide.

CO10.Interest in the Different genes of Indian writing in English.

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Course Outcome of B.A. Part-Three
American literature III

CO1.To introduce the social, culture and economic background of America Literature and discuss about American Renaissance.

CO2.Develop passion for literature.

CO3.To discuss distinctive features of American poetry and poets Walt Whitman, Sandberg, Dickinson and Cummings.

CO4.Gain knowledge of the major traditions of American literature

CO5.To discuss the features feature of prose writing in American literature William Faulkner noble awards acceptance speech. Whithsmans pretence to leaves of grass.

CO6.Become accomplished and active readers.

CO7.Develop writing and oral communication skills and may develop and appreciate for different genes.

CO8.To explore the growth of American drama with reference to miller's all my son's and O Neil's the hairy ape.

CO9.To trace the development of American fiction and analyze Hemingway's a farewell to arms and Faulkner the sound and the Fury.

CO10.Knowledge about divers group of writers on what they reflect about American experiences and characters.

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Course Outcome of B.A. Part-Two
Modern English Literature I

CO1.To introduce the characteristics features of modern poetry and poets W.B. years and Tselios.

CO2.Acquire famiarity with a wide range of literary terms and categories relating to literary history, theory and criticism including figurative language and prosody.

CO3.The students should be able to read and appreciate various forms of literature.

CO4.To discuss distinctive features of modern prose and essays of the writers Bertrand Russell and Oscan Wilde.

CO5.Develop proficiency in oral communication and writing.

CO6.They will be able to discuss and critically analyze different aspect of literature

CO7.To discuss the features of modern drama and play G.B show pynalion.

CO8.Identify analyze, interpret and describe the critical ideas, value and terms that appear in library and culture terms.

CO9.Understad the way these ideas, value and themes inform and impact culture and society.

CO10.To display a working knowledge of the novel as a literary genre and discuss the novel of Rudyard Kipling Kim .

CO11.Apply theoretical approaches to critical reading of literary texts.

CO12.The students will be able to point out the difference between literary and ordinary language.

CO13.To analyze short story as a literary genre with reference to the story of Katherine Mansfield-A cup of tea.

CO14.Apply theatrical approaches to critical reading of literary texts.

CO15.They will be well trained to untold many meanings in literary texts.

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Course Outcome of B.A. Part-Two
Modern English Literature II

CO1.To introduce the characteristics features of modern poetry and was poets Sassoon, Owen Hughes and Auden.

CO2.Acquire knowledge of the literary works of 18th century.

CO3.To discuss distinctive features of modern prose and essays of the writers Lynd and Belloc.

CO4.Interpret and analyze the literary texts prescribed.

CO5.Learn to use literature to develop their moral and social sense.

CO6.To discuss the features of modern drama and the play john Galsworthy strife and j. m. Synge-Riders to the sea.

CO7.To display a working knowledge of the novel as a literary genre and discuss the novel of Tillicum gala ding lord of the flies.

CO8.Recognize the connection between the literary period and texts.

CO9.Improve the writing skill and oral communication skill.

CO10.To identify the literary terms with reference to the different genre of literature.

CO11.The students know and understand the literature of modern period.

CO12.They can unravel many meanings in literary terms.

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Course Outcome of B.Sc Part -One

Chemistry Paper - I (Inorganic Chemistry)

Unit.1 Atomic Structure

CO.1 The students after completing of this course will be able to describe Heisenberg uncertainty principle.

CO.2 The students after completing of this course will be able to describe Schrödinger wave equation.

CO.3 The students after completing of this course will be able to describe atomic structure and shape of s.p.d orbital.

CO.4 The students after completing of this course will be able to describe aufbau principal.

CO.5 The students after completing of this course will be able to describe Hunds multiplicity rule.

Unit.2 Chemical Bonding I

CO.1 The students after completing of this course will be able to describe covalent bond.

CO.2 The students after completing of this course will be able to describe Valance Bond Theory (VBT)

CO.3 The students after completing of this course will be able to describe hybridization.

CO.4 The students after completing of this course will be able to describe shapes of simple molecular and ions.

CO.5 The students after completing of this course will be able to describe VSEPR Theory.

CO.6. The students after completing of this course will be able to describe dipole moment.

Unit .3 Chemical Bonding II

CO.1 The students after completing of this course will be able to describe ionic structure , radius ratio ,

CO.2 The students after completing of this course will be able to describe lattice defects.

CO.3 The students after completing of this course will be able to describe semiconductors.

CO.4 The students after completing of this course will be able to describe solubility of ionic solids.

CO.5 The students after completing of this course will be able to describe fajans rule.

Unit .4 S- Block elements & noble gases

CO.1 The students after completing of this course will be able to describe salient features of hydride.

CO.2 The students after completing of this course will be able to describe alkyl and aryls.

CO.3 The students after completing of this course will be able to describe salvation and complication tendency.

CO.4 The students after completing of this course will be able to describe chemistry of xenon.

CO.5 The students after completing of this course will be able to describe chemical properties of noble gases.

Unit.5 P-Block element and inorganic chemical analysis

CO.1 The students after completing of this course will be able to describe oxides and Oct acids of Boron & Aluminum

CO.2 The students after completing of this course will be able to describe Boranes and borabanzines.

CO.3 The students after completing of this course will be able to describe fullerenes and silicate.

CO.4 The students after completing of this course will be able to describe inter hydrogen's and pseudohologens.

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CO.5 The students after completing of this course will be able to describe detection of acid and basic radicals.
CO.6 The students after completing of this course will be able to describe into DD

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Course Outcome of B.Sc Part -One
Chemistry Paper - II (organic Chemistry)

Unit I Electronic structure of bonding.

CO.1 The students after completing of this course will be able to describe resonance.
CO.2 The students after completing of this course will be able to describe Hyper conjugation.
CO.3 The students after completing of this course will be able to describe inductive effect.
CO.4 The students after completing of this course will be able to describe aromaticity.
CO.5 The students after completing of this course will be able to describe electrophiles and nucleophiles.
CO.6 The students after completing of this course will be able to describe carbonation carbanions.

Unit II stereochemistry of Organic compounds.

CO.1 The students after completing of this course will be able to describe optical isomerism.
CO.2 The students after completing of this course will be able to describe enantiomers diastereomers.
CO.3 The students after completing of this course will be able to describe resolution of diastereomers.
CO.4 The students after completing of this course will be able to describe inversion relation.
CO.5 The students after completing of this course will be able to describe sequence rule.
CO.6 The students after completing of this course will be able to describe geometric isomerism.

Unit III Aliphatic and Aromatic Ring compounds.

CO.1 The students after completing of this course will be able to describe cycloalkanes.
CO.2 The students after completing of this course will be able to describe Bayer's strain theory.
CO.3 The students after completing of this course will be able to describe banana bonds.
CO.4 The students after completing of this course will be able to describe structure of benzene and naphthalene.
CO.5 The students after completing of this course will be able to describe aromatic electronic substitution reaction.

Unit IV Alkenes dines and alkynes

CO.1 The students after completing of this course will be able to describe dehydration of alcohols.
CO.2 The students after completing of this course will be able to describe chemical reaction of alkenes.
CO.3 The students after completing of this course will be able to describe hydroboration - oxidation.
CO.4 students after completing of this course will be able to describe epoxidation.
CO.5 The students after completing of this course will be able to describe duels - alder reaction.
CO.6 The students after completing of this course will be able to describe addition reaction.

Unit V Arena and aromaticity

CO.1 The students after completing of this course will be able to describe stereochemistry of substitution reaction.
CO.2 The students after completing of this course will be able to describe SN^1 and SN^2 reaction.
CO.3 The students after completing of this course will be able to describe stereo chemistry of elimination reaction.
CO.4 The students after completing of this course will be able to describe comparison of elimination and substitution.

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Course Outcome of B.Sc Part -One
Chemistry Paper - III (Physical chemistry)

Unit I Mathematical concepts for chemist and computer

CO.1 The students after completing of this course will be able to describe logarithmic reactions.
CO.2 The students after completing of this course will be able to describe sloped and intercept.
CO.3 The students after completing of this course will be able to describe differentiation of functions.
CO.4 The students after completing of this course will be able to describe Maxima and minima.
CO.5 The students after completing of this course will be able to describe components of computer.

Unit II Molecular velocity

CO.1 The students after completing of this course will be able to describe root mean square velocity.
CO.2 The students after completing of this course will be able to describe Maxwell law of distribution.
CO.3 The students after completing of this course will be able to describe collision frequency.
CO.4 The students after completing of this course will be able to describe ideal and real gases.
CO.5 The students after completing of this course will be able to describe Vander Waal equation.

Unit III Liquid State

CO.1 The students after completing of this course will be able to describe intermolecular forces.
CO.2 The students after completing of this course will be able to describe structure of liquid.
CO.3 The students after completing of this course will be able to describe viscosity and surface tension.
CO.4 The students after completing of this course will be able to describe ideal and non ideal solution.
CO.5 The students after completing of this course will be able to describe roults law.
CO.6 The students after completing of this course will be able to describe osmosis and osmotic pressure.

Unit IV Liquid crystals

CO.1 The students after completing of this course will be able to describe liquid crystals.
CO.2 The students after completing of this course will be able to describe nematic and cholesteric phases.
CO.4 The students after completing of this course will be able to describe optical and electrical properties of colloid.
CO.5 The students after completing of this course will be able to describe coagulation.
CO.6 The students after completing of this course will be able to describe gold number.
CO.7 The students after completing of this course will be able to describe emulsion.

Unit-V Chemical kinetics

CO.1 The students after completing of this course will be able to describe rate of reaction.
CO.2 The students after completing of this course will be able to describe rate constant.
CO.3 The students after completing of this course will be able to describe Oder of reaction.
CO.4 The students after completing of this course will be able to describe chain reaction.
CO.5 The students after completing of this course will be able to describe activation energy.
CO.6 The students after completing of this course will be able to describe catalysis.

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Course Outcome of B.Sc Part -Two
Chemistry Paper – I(Inorganic Chemistry)

Unit I Chemistry of elements of First transition series

CO.1 The students after completing of this course will be able to describe property of d- block elements

CO.2 The students after completing of this course will be able to describe properties of First transition series.

CO.3 The students after completing of this course will be able to describe binary compounds.

CO.4 The students after completing of this course will be able to describe stability of oxidation state.

Unit II Chemical of elements of second and third transition series

CO.1 The students after completing of this course will be able to describe properties of second transition series .

CO.2 The students after completing of this course will be able to describe ionic radii

CO.3 The students after completing of this course will be able to describe oxidation state.

CO.4 The students after completing of this course will be able to describe magnetic behavior.

CO.5 The students after completing of this course will be able to describe stereochemistry.

Unit III Co- ordination compounds.

CO.1 The students after completing of this course will be able to describe Werner's theory

CO.2 The students after completing of this course will be able to describe ENA.

CO.3 The students after completing of this course will be able to describe chelate.

CO.4 The students after completing of this course will be able to describe nomenclature of co-ordinations compounds.

Unit V Chemistry of lanthanide and actinides.

CO.1 The students after completing of this course will be able to describe electronic configuration of lanthanide.

CO.2 The students after completing of this course will be able to describe oxidation state.

CO.3 The students after completing of this course will be able to describe complex formation.

CO.4 The students after completing of this course will be able to describe properties of actinides.

Unit V Acid and Bases.

CO.1 The students after completing of this course will be able to describe Arrhenius concept.

CO.2 The students after completing of this course will be able to describe Lewis concept.

CO.3 The students after completing of this course will be able to describe solvent system.

CO.4 The students after completing of this course will be able to describe non aqueous solvents.

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Course Outcome of B.Sc Part -Two
Chemistry Paper - II (organic Chemistry)

Unit I Alcohols

CO.1 The students after completing of this course will be able to describe dihydric alcohols.
CO.2 The students after completing of this course will be able to describe pinacol pinacolone rearrangement.
CO.3 The students after completing of this course will be able to describe trihydric alcohols.
CO.4 The students after completing of this course will be able to describe phenol .
CO.5 The students after completing of this course will be able to describe fries rearrangement etc.

Unit II Aldehyde and ketones

CO.1 The students after completing of this course will be able to describe synthesis of aldehyde and ketone
CO.2 The students after completing of this course will be able to describe properties of aldehyde and ketone.
CO.3 The students after completing of this course will be able to describe reactions of aldehyde and ketone.
CO.4 The students after completing of this course will be able to describe cannizaro reaction.
CO.5 The students after completing of this course will be able to describe LiAlH4 and NaBH4.

Unit III Carboxylic acid

CO.1 The students after completing of this course will be able to describe properties of carboxylic acid.
CO.2 The students after completing of this course will be able to describe acidity of carboxylic acid.
CO.3 The students after completing of this course will be able to describe reduction of carboxylic acid
CO.4 The students after completing of this course will be able to describe HVZ reaction.
CO.5 The students after completing of this course will be able to describe carboxylic acid derivatives.

Unit IV Organic compounds of nitrogen

CO.1 The students after completing of this course will be able to describe preparation of nitroalkanes
CO.2 The students after completing of this course will be able to describe chemical reaction of nitroalkanes.
CO.3 The students after completing of this course will be able to describe nitroarenes
CO.4 The students after completing of this course will be able to describe reactivity of amines.
CO.5 The students after completing of this course will be able to describe stereochemistry of nitroalkanes.

Unit V Heterocyclic compounds.

CO.1 The students after completing of this course will be able to describe aromatic character of puerile furan.
CO.2 The students after completing of this course will be able to describe methods of synthesis.
CO.3 The students after completing of this course will be able to describe preparation of iodole.
CO.4 The students after completing of this course will be able to describe quinoline and isoquinole.

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Course Outcome of B.Sc Part -Two
Chemistry Paper - III (Physical chemistry)

Unit I Thermodynamics I

CO.1 The students after completing of this course will be able to describe fundamental of thermodynamics.

CO.2 The students after completing of this course will be able to describe intensive and extensive properties.

CO.3 The students after completing of this course will be able to describe First law of thermodynamics.

CO.4The students after completing of this course will be able to describe joule Thomson expansion.

Unit II Thermodynamics II

CO.1 The students after completing of this course will be able to describe second law of thermodynamics.

CO.2 The students after completing of this course will be able to describe Carnot cycle

CO.3 The students after completing of this course will be able to describe entropy

CO.4 The students after completing of this course will be able to describe free energy.

Unit III phase equilibrium

CO.1 The students after completing of this course will be able to describe phase rule.ill be able to describe three component system

CO.5 The students after completing of this course will be able to describe Henry's. law.

Unit IV Electrochemistry I

CO.1 The students after completing of this course will be able to describe electrolytic conductance.

CO.2 The students after completing of this course will be able to describe kohlrausch law

CO.3 The students after completing of this course will be able to describe weak electrolyte.

CO.4 The students after completing of this course will be able to describe strong electrolyte.

CO.5 The students after completing of this course will be able to describe transport number.

Unit V Electrochemistry II

CO.1 The students after completing of this course will be able to describe electrochemical cell.

CO.2 The students after completing of this course will be able to describe EMF.

CO.3 The students after completing of this course will be able to describe Nernst equation.

CO.4 The students after completing of this course will be able to describe buffer solution.

CO.5 The students after completing of this course will be able to describe pH

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Course Outcome of B.Sc Part -Three

Chemistry Paper - I (Inorganic Chemistry)

Unit 1 Metal ligand bonding in transition metal complexes

CO.1 The students after completing of this course will be able to describe limitations of VBT

CO.2 The students after completing of this course will be able to describe CFT.

CO.3 The students after completing of this course will be able to describe Cristal field splitting

CO.4 The students after completing of this course will be able to describe CFSE.

Unit II Magnetic properties of transition metal complexes .

CO.1 The students after completing of this course will be able to describe type of magnetic behavior.

CO.2 The students after completing of this course will be able to describe L-S coupling.

CO.3 The students after completing of this course will be able to describe magnetic moment.

CO.4 The students after completing of this course will be able to describe electronic spectra.

CO.5 The students after completing of this course will be able to describe selection rule.

Unit III organ metallic chemistry

CO.1 The students after completing of this course will be able to describe nomenclature of organ metallic compounds

CO.2 The students after completing of this course will be able to describe preparation of organo metallic compounds.

CO.3 The students after completing of this course will be able to describe bonding organometallic compounds.

CO.4 The students after completing of this course will be able to describe metal carbonyls.

Unit IV Bio Inorganic Chemistry

CO.1 The students after completing of this course will be able to describe essential elements in biological processes.

CO.2 The students after completing of this course will be able to describe metallo porphyries.

CO.3 The students after completing of this course will be able to describe hemoglobin.

CO.4 The students after completing of this course will be able to describe myoglobin.

CO.5 The students after completing of this course will be able to describe nitrogen fixation.

Unit V Hard and Soft acid and bases.

CO.1 The students after completing of this course will be able to describe HSAB concept.

CO.2 The students after completing of this course will be able to describe symbiosis.

CO.3 The students after completing of this course will be able to describe silicones and phashag.

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Course Outcome of B.Sc Part -Three
Chemistry Paper - II (organic Chemistry)

Unit. I Organo metallic compounds.

CO.1 The students after completing of this course will be able to describe organometallic compound.
CO.2 The students after completing of this course will be able to describe Grignard reagents.
CO.3 The students after completing of this course will be able to describe organo - zinc compound.
CO.4 The students after completing of this course will be able to describe organo-sulphur compound.

Unit II Bimolecular

CO.1 The students after completing of this course will be able to describe carbohydrate.
CO.2 The students after completing of this course will be able to describe monosaccharide's.
CO.3 The students after completing of this course will be able to describe poly saccharides.
CO.4 The students after completing of this course will be able to describe protein and nucleic Acids.

Unit III Synthetic polymer's And Dynes

CO.1 The students after completing of this course will be able to describe polyesters.
CO.2 The students after completing of this course will be able to describe polyamide.
CO.3 The students after completing of this course will be able to describe natural and synthetic rubber.
CO.4 The students after completing of this course will be able to describe Dynes.
CO.5 The students after completing of this course will be able to describe methyl orange etc.

Unit IV Spectroscopy.

CO.1 The students after completing of this course will be able to describe mass spectroscopy.
CO.2 The students after completing of this course will be able to describe IR spectroscopy.
CO.3 The students after completing of this course will be able to describe UV Spectroscopy.

Unit V NMR spectroscopy.

CO.1 The students after completing of this course will be able to describe NMR spectroscopy.
CO.2 The students after completing of this course will be able to describe coupling constants.
CO.3The students after completing of this course will be able to describe CMR Spectroscopy.
CO.4 The students after completing of this course will be able to describe MRI.

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Course Outcome of B.Sc Part -Three

Chemistry Paper - III Physical chemistry.

Unit I Quantum mechanics I

CO.1 The students after completing of this course will be able to describe LCAO.

CO.2 The students after completing of this course will be able to describe wave functions.

CO.3 The students after completing of this course will be able to describe Valence bond model.

CO.4 The students after completing of this course will be able to describe huckel theory.

Unit III Spectroscopy -I

CO.1 The students after completing of this course will be able to describe electromagnetic radiation.

CO.2 The students after completing of this course will be able to describe regions of spectrum.

CO.3 The students after completing of this course will be able to describe vibrational spectra.

CO.4 The students after completing of this course will be able to describe selections rule.

CO.5 The students after completing of this course will be able to describe Roman spectra.

Unit IV Spectroscopy II

CO.1 The students after completing of this course will be able to describe Frank Condon principle.

CO.2 The students after completing of this course will be able to describe type of electronic transition.

CO.3 The students after completing of this course will be able to describe law of photo chemistry.

CO.4 The students after completing of this course will be able to describe Jablonsky diagram.

CO.5 The students after completing of this course will be able to describe fluorescence and phosphoresce.

Unit V Thermodynamics and magnetic properties.

CO.1 The students after completing of this course will be able to describe third law of thermodynamics.

CO.2 The students after completing of this course will be able to describe Nernst heat thermo.

CO.3 The students after completing of this course will be able to describe dipole moment.

CO.4 The students after completing of this course will be able to describe paramagnetic and diamagnetism.

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Course Outcome B.com.I

Subject- Financial Accounting

CO-1.Preparing financial statements in accordance with appropriate standards.
CO-2.Prepare ledger accounts using double entry book-keeping and record journal entries accordingly.
CO-3.Explain the purpose of double entry system to understanding the accounting system property, preparation of ratification errors.
CO-4.They gain knowledge about the accounting procedures at the time of dissolution of a firm and also the sall of firm to a company from of organizations.
CO-5.The students are enabled to prepare the accounting of partnership firm in the event of admission, retirements and death of a partner.

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Course Outcome of B.Com.I

Subject- Business Economics

After the completion of the course, students will be able to.

CO-1.Employ marginal analysis for decision making.

CO-2.Analyze operations of markets under varying competitive conditions.

CO-3.Evalute the demand and supply, elasticity of demand and law of returns.

CO-4.Prossess the knowledge about the perfect competition and price determination.

CO-5.Analyze courses and consequences of unemployment, inflation and economic growth.

Learning objectives

O1.Students will demonstrate their knowledge of the fundamental and technical content of economics.

O2.Students will apply the basic theories of economic termi nologies in oral and written communications.

O3.Students will be able to make decisions wisely using cost-benefits analysis.

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Course Outcome of B.Com.

Subject- Business Environment

On Completion of this course the students should be able to:-

CO-1.Understand the concept, significance and changing dimensions of business environment.

CO-2.Identify various types of business environment and tools for scanning the environment.

CO-3.Gain insights on role of economic system, economic planning, government policies, public sector and development banks, economic reforms, liberalization and it's impact on business

CO-4.Appreciate the importance and impact of changing laws and regulations on a business firm learn about emerging dimensions in socio cultural environment and it's relevance for a business firm.

CO-5.Gain insights on patent lows , policy on research and development and new technological developments in business environment.

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Course Outcome of B.com.I

Business. Communication

CO1. The students will be able to make effective and impressive Communication.
CO2. The students will be able to make Communication in ethical manner.
CO3. The students will be able to and capable to make persuasive digital communication .
CO4. Capable to make abstract and summaries of proposals.
CO5. The students will be able to Better presentation and Communication using proper body language.

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Course Outcome of B.com.I

Business. Reg. Framwork

After the completions of the course students will be able to :-

CO1.The students will be able to learn the Difference between valid void and voidable contract .

Co2.The students will be able to memorize Difference between contract of guarantee and indemnity.

CO3.The students will be able to Analysize the right and duties of pqwnor and Pawnee under contact of bailment.

CO4.The students will be able to learn how to pursue the consumer rights under consumer protection act. 1982.

CO5.To know the about the Indian contract act.1872 and what are the essential provisions.

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Course Outcomes of B.Com.I

Business Mathematics

After the completion of the course student will be able to,

CO1. Understand the concept of matrices and Determinants.

CO2 They will be able to solve problems in the Ares calculus, of business calculus, type and methods of interest account and their basic applications practice.

CO3. To explain basic methods of business simple and compound interest account use of compound interest account, loan and consumer credit.

CO4. They will be able to use percentages. Rations and proportions for business applications such as discount markups and mark downs and be able to differentiate witch methods should be used for different problems.

CO5. Connect acquired knowledge and skills with practical problem in economic practice.

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Course Outcome of B.Com.II

Principles of Business Management

CO1.The Students gain knowledge about the basic principles and functions of management.

CO2.This paper familiarize the students with the basic concepts of management in order to aid to understanding of how on organization ,functions and in understanding the complexity and wide variety of issues managers face in today's business firms

CO3.Develop the ability to use a basic management system to create the data needed to solve a variety of business problems.

CO4.The Students are able to basic understand the principles of business management.

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Course Outcome of B.Com.II

Company Law

After the completion of the course student will be able to,

CO1. They will be able to company incorporation and rule and procedures for running a company.

CO2.Different kind of corporate entities that are permitted to b e set up.

CO3.Manner of raising funds and roles and responsibilities of directors.

CO4.Winding up of a company and its procedures understand the various provision of company law.

CO5. To provide knowledge about commercial banks and its services .(banking services like e- banking and internal banking)

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Course Outcome of B.Com.II

Business Statistics

After the completion of the course student will be able to,

CO1. Understand basic statistical concepts such as statistical collection, statistical serice ,tabular and graphical representation of data.

CO2.Colculate measures of central tendency dispersion and asymmetry ,correlation and regression analysis.

CO3.Apply knowledge to solve simple tasks using computer and , highlight statistical relationships between variables in data set .

CO4. Independently calculate basic statistical parameters viz- mean, measures of disperation , correlation coefficient, indexes.

CO5.Predict values of strategic variables using regression and correlation analysis

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Course Outcome of B.com.II

Corporate Accounting

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

CO1.They are able to abtain the knowledge of merits and demerits mergers ,acquisition and other strategies to avoid risk.

CO2.They are fully qualified to become a company secretary ,stock broker ,finance controller ,investment analyst and tax auditor.

CO3.They will be able to acquire knowledge of solving current issues of an organization in accounting using innovation techniques.

CO4.They make the students familiarize with corporate accounting procedures and to understand the accounting for banking and insurance companies.

CO5.They will be able to value good will and shares under various methods.

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Course Outcome of B.Com.II

Cost Accounting

PO1. They are able to reduce the expenditure and maximize the profit of the business.

PO2. Differentiate methods of schedules costs as per unit of production.

PO3. Differentiate methods of calculating stock consumption.

PO4. Apply cost accounting methods for both manufacturing and service industry.

PO5.They learn to practice ethical values in business environment, they can make wise decisions in business activities.

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Course outcomes of B.Sc Part - One
Mathematics Paper I

Paper 1.1

Co1.The should be learn about following topic Elementary operations on matrices
Co2. The should be learn about following topic linear independence of brae and column matrix
Co3 The should be learn about following topic. Raw rank and column rank and rank of matrix.
Co4.The should be learn about following topic. he characteristics equations of a matrix.
Co5.The should be learn about following topic Hamilton theorem and its use in finding inures of a matrix.

Paper 1.2

Co1.The should be learn about following topic Application of murices to a system of linear equations.
Co2.The should be learn about following topic theorem an conrentency of a system of linear equations.
Co3.Transfarmation of equations.
Co4. Descartes rule of Eigen's.
Co5. Solutions of cubic equations.
Co6.Biquadratri equations.

Paper 1.3 The should be learn about following topic.

Co1. Mapping equivalence relations and partitions.
Co2.Subgroups, generation of groups cyclic group.
Co3. Languages theorem and , it's consequences.
Ço4.Fermation and rulers theorems
Co5.Normal sub group, quiet group permutation group.
Co6.Cayleys. theorem

Paper 1.4 The should be learn about following topic.

Co1.Homomarphism and isomorphism of groups.
Co2.The fundamental theorems of homomorphism.
Co3.Properties and example of Rings.
Co4. Sub rings , general domain and fields characteristic of a rang and field.

Paper 1.5

Co1.The should be learn about following topic de-movies theorem and it's applications.
Co2.The should be learn about following topic direct and indirect circular and hyperbolic functions.
Co3.The should be learn about following topic logarithm of a complex quality.
Co4.The should be learn about following topic.expanrion of lriyonometrical function.
Co5.The should be learn about following topic crregarys series, summation of series.

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Course outcomes of B.Sc Part - One
Mathematics Paper II (Calculus)

Paper 2.1

CO 1. The should be able to understand E-S definition of the limit of functions.
CO 2. The should be able to understand basic properties of limits.
CO 3. The should be able to understand differentiability.
CO 4. The should be able to understand successive differentiation.
CO 5. The should be able to understand Leibnitz theorem, McLaurin and Taylor series expansions.

Paper 2.2

CO 1. The should be able to understand asymptotes, curvature, for concavity and canuxtly
CO 2. The should be able to understand points of inflexion multiple points.
CO 3. The should be able to understand truing of curves in Cartesian and polar co-ordinates.

Paper 2.3

CO 1. The should be able to understand integration of franscondatal function, reduction formula
CO 2. The should be able to understand define integrals, quadrature.
CO 3. The should be able to understand rectification.
CO 4. The should be able to understand volume and surfaces of solids of revolution

Paper 2.4

CO 1. The should be able to understand degree and order of differential equations.
CO 2. The should be able to understand equations reducible to the linear farm.
CO 3. The should be able to understand first o order higher degree equations solvable for X, Y
CO 4. The should be able to understand geometrical meaning of a differential equation.
CO 5. The should be able to understand orthogonal trajectories.

Paper 2.5

CO 1. The should be able to understand linear differential equations second order.
CO 2. The should be able to understand transformation of the equation by second order.
CO 3. The should be able to understand method of variation of parameters.
CO 4. The should be able to understand ordinary simultaneous differential equations

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Course outcomes of B.Sc Part - One
Mathematics Paper III (Vector Analysis and Geometry)

Paper 3.1

CO1. The students known about scalar and vector product of three vectors.
CO2. The students known about product of four vectors
CO3. The students known about reciprocal vectors.
CO4. The students known about vector differentiation.
CO5. The students known about gradient, divergence and Ourl.

Paper 3.2

CO1. The students known about vector integration, theorem of gauss.
CO2. The students known about theorem of green, stokes.
CO3. The students known about problems based on green, stokes and gauss.

Paper 3.3

CO1. The students known about general equation of second degree.
CO2. The students known about trenching of conics.
CO3. The students known about system of conics.
CO4. The students known about co focal conics, polar equation of conic.

Paper 3.4

CO1. The students known about sphere.
CO2. The students known about cone.
CO3. The students known about cylinder.

Paper 3.5

CO1. The students known about central conchoids, paraboloids.
CO2. The students known about plane sections of conchoids.
CO3. The students known about generating lines, co focal conchoids.
CO4. The students known about reduction of second digress equations.

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Course outcomes of B.Sc Part - Two
Mathematics Paper I

Paper 1.1

Co1.The students should be know about definition and basic properties of groups.
Co2.The students should be know about subgroups.
Co3.The students should be know about subgroups generated by a subset
Co4.The students should be know about cyclic group and simple properties.

Paper 1.2

Co1.The students should be know about curette decomposition.
Co2.The students should be know about Lagrange's theorem and it's corollaries.
Co3.The students should be know about including formals theorem.

Paper 1,3

Co1.The students should be know about homomorphism and isomorphism of groups.
Co2.The students should be know about fundamental theorem of homomorphism.
Co3.The students should be know about transformation and permutations groups.
Co4.The students should be know about Sn (Various subgroups of Sn, h<5 to the studied).
Co5.The students should be know about cyclers theorem.

Paper 1.4

Co1.The students should be know about group automorphism.
Co2.The students should be know about inner automorphism.
Co3.The students should be know about group of automorphism.
Co4.The students should be know about conjagcy relations and centralizer.
Co5.The students should be know about Cauchy's theorem for finite Aeolian groups and non Aeolian groups.

Paper 1.5

Co1.The students should be know about definition and basic properties of rings.
Co2.The students should be know about ring homomorphism.
Co3.The students should be know about sub rings ideals and quotient rings.
Co4.The students should be know about polynomial rings and it's properties.
Co5.The students should be know about integral domain and field.

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Course outcomes of B.Sc Part - Two
Mathematics Paper II (Advanced Calculus)

Paper 2.2

Co1. The students can be understand definition of sequence

Co2. The students can be understand theorem of limit of sequence.

Co3. The students can be understand bounded and monotonic sequence.

Co4. The students can be understand Cauchy's convergence criterion series of non negative terms.

Co5. The students can be understand comparison test, Cauchy's integral test Cauchy's rout lest.

Co6. The students can be understand Leibnitz's lest, absolute and conditional convergence.

Paper 2,2

Co1. The students can be understand continuity of functions of single variable sequential continuity.

Co2. The students can be understand properties of continuous functions.

Co3. The students can be understand chain rule of differentiability.

Co4. The students can be understand mean Value theorems and their generically interpretations.

Co5. The students can be understand dartboards intermediate value theorem for derivatives.

Paper 2.3

Co1. The students can be understand limit and continuity of functions of two veritable.

Co2. The students can be understand partial differentiation.

Co3. The students can be understand change of variables.

Co4. The students can be understand Euler's theorem on homogeneous functions.

Co5 . The students can be understand Taylor's theorem for functions of two veritable.

Paper 2.4

Co1. The students can be understand envelopes, evolutes.

Co2. The students can be understand Maxima. and minima of functions of two veritable.

Co3. The students can be understand Lagrange's multiplier method.

Co4. The students can be understand Beta and Gamma function.

Paper 2.5

Co1.The students can be understand double and triple integrals.

Co2.The students can be understand change of order of integration in double integrals.

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Course outcomes of B.Sc Part - Two
Mathematics Paper III (Differential Equations)

Paper 3.1

Co1.The should be able to learn about series solutions of differential equations.
Co2.The should be able to learn about power series method, based and Legendre equations.
Co3.The should be able to learn about Bessel's and Legendre's functions and their properties.
Co4.The should be able to learn about recurrence and generating function orthogonality of functions.

Paper 3.2

Co1.The should be able to learn about lap lance transformation.
Co2.The should be able to learn about linearity of the Laplace transformation
Co3.The should be able to learn about excellence theorem for Laplace transforms.
Co4.The should be able to learn about Laplace transforms of derivatives and integrals.
Co5.The should be able to learn about shifting theorem.
Co6.The should be able to learn about differentiation and integration of transforms.

Paper 3.3

Co1.The should be able to learn about inverse Laplace transforms.
Co2.The should be able to learn about convolution theorem.
Co3.The should be able to learn about application of Laplace transformation in salving linear Differential Equations with contact coefficients.

Paper 3.4

Co1.The should be able to learn about partial differential equations of the First order.
Co2.The should be able to learn about Lagrange's solutions.
Co3.The should be able to learn about some special Lupe's of equations which can be solved early by method other than the general method.
Co4.The should be able to learn about char pits general method.

Paper 3.5

Co1.The should be able to learn about partial differential equations of second and higher order.
Co2.The should be able to learn about classification of partial differential equations of second order.
Co3.The should be able to learn about homogeneous and non homogeneous equations with constant coefficients.
Co4.The should be able to learn about partial differential equations reducible to equations with constant coefficients.

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Course outcomes of B.Sc Part - Three
Mathematics Paper I (Analysis)

Paper 1.1

CO1. To develop able and drichlet,s test double series, multiplication of series.
CO2. To develop partial derivation and differentiability of real – valued functions of two variables.
CO3. To develop Schwarz and young's theorem.

Paper 1.2

CO1. To develop Riemann integral, inerrability of continuous and monotonic functions.
CO2. To develop the fundamental theorem of integral calculus.
CO3. To develop mean value theorems of integral calculus.
CO4. To develop improper integral and their concurrence.
CO5. To develop continuity derivability and lintegrability of an integral of a function of a parameter.

Paper 1.3

CO1. To developed complex numbers as ordered pairs geometric representation of complex numbers.
CO2. To develop continuity and differentiability of complex functions.
CO3. To develop analytic functions Cauchy – Riemann equations,
CO4. To develop harmonic functions.
CO5. To develop elementary functions mapping by elementary functions.
CO6. To develop inverse points and critical mapping conformal mapping.

Paper 1.4

CO1. To develop definition and examples of metric space, NBD, limit points interior points.
CO2. To develop open and closed sets carouser and interior.
CO3. To develop boundary points sub space of a metric space.
CO4. To develop Cauchy sequences, completeness.
CO5. To develop real numbers as a complete ordered field.

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Course outcomes of B.Sc Part - Three
Mathematics Paper II (Abstract algebra)

Paper 2.1

Co1.The student s learn to think about group automarphism, inner automarphism.
Co2.The students learn to think about contumacy relation,nermaliar
Co3.The students learn to think about elbows the arums.
Co4.The students learn to think about structure theorem for finite Aeolian groups.

Paper 2.2

Co1.The students learn to think about ring theory, ring homomorphism.
Co2.The students learn to think about audient rings, polynomial rings polynomials over the rationale field
Co3.The students learn to think about the Eisenstein erilcrium..
Co4.The students learn to think about module, sub module quotient module, homomorphism and isomorphism theorem.

Paper 2.3

Co1.The students learn to think about definition and examples of vector space subspace.
Co2.The students learn to think about some and direct sum of subspace.
Co3.The students learn to think about linear dependence.
Co4.The students learn to think about finite dimensional vector spaces.
Co5.The students learn to think about quotient space and nits dimensional.

Paper 2,4

Co1.The students learn to think about the rank nullity theorem.
Co2.The students learn to think about dual and bridal space and natural isomorphism.
Co3.The students learn to think about adroit of liner transformation.
Co4.The students learn to think about Eigen values and eigenvector a liner transformations.
Co5.The students learn to think about quadratic and hermitical farms.

Paper 2.5

Co1.The students learn to think about inner product space Cauchy's Schwartz inequality.
Co2.The students learn to think about orthogonal vector ,orthogonal complements.
Co3.The students learn to think about barrels inequality for finite dimensional space.
Co4.The students learn to think about gram Schmidt arthogonalization process.

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Course outcomes of B.Sc Part - Three
Mathematics Paper III (Discrete Mathematics)

Paper 3.1

Co1.The students should be able to sets and proposition cordiality, mathematical induction.

Co2.The students should be able to order set's, languages. Phrase structure, rammer.

Co3.The students should be able to type of grammar and languages

Co4.The students should be able to permutations.

Paper 3.2

Co1.The students should be able to relations and functions binary reaction.

Co2.The students should be able to chain and arrichains.

Co3.The students should be able to basic terminology, multi graphs weighted groups, push circuit.

Co4.The students should be able to travelling salesman problem.

Co5.The students should be able to planner graphs.

Paper 3.3

Co1.The students should be able to equivalent machines, finite state machines as language recognizes.

Co1.The students should be able to time complexity.

Co2.The students should be able to describe numeric function and generating function.

Paper 3.4

Co1.The students should be able to linear recurrence relations with constant coefficients'.

Co2.The students should be able to homogeneous solutions, particular solutions.

Co3.The students should be able to solution by the method of generating function.

Co4.The students should be able to brief review of group and rings.

Paper 3.5

Co1.The students should be able to lattice and algebraic structure duality.

Co2.The students should be able to Boolean lattice and Boolean algebra.

Co3.The students should be able to prepositional calculus.

Co4.The students should be able to switching circuits.

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