



NAAC GRADE – 'B'

Junior College Code : 15
Junior College No. J-22-09-001
UDISE No.: 27350713220

P.P. Swami Vivekanand Sevashram Sanstha, Shirala's
**VISHWASRAO NAIK ARTS, COMMERCE &
BABA NAIK SCIENCE MAHAVIDYALAYA, SHIRALA**

Tal.: Shirala, Dist.: Sangli, Maharashtra – 415408

(Affiliated to Shivaji University, Kolhapur.)

(JUNIOR/SENIOR)



EST : JUN-1970

Principal : **Dr. R. B. Bansode**
M.A., M.Phil., Ph.D.

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CRITERION 2: TEACHING LEARNING AND EVALUATION

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PROGRAMME OUTCOMES (PO'S) AND COURSE OUTCOMES (CO'S) FOR MICROBIOLOGY



B. SC. MICROBIOLOGY PROGRAM OBJECTIVES AND OUTCOMES

PROGRAM OBJECTIVES AND OUTCOMES

PO: 1	To enrich students with knowledge and understanding of the different disciplines of Microbiology such as medical Microbiology, immunology, biochemistry, fermentation technology, environmental Microbiology, genetics, agricultural and food Microbiology, Waste management.
PO: 2	To make students learn advanced fields of microbiology such as Nanobiotechnology and Marine microbiology.
PO: 3	To introduce the concepts of application and research in Microbiology and inculcate sense of scientific responsibilities.
PO: 4	To help student's build-up a progressive and successful career in Microbiology.
PO: 5	To take a step ahead for the holistic development of students through activities like lectures from eminent personalities, Visits and various competitions.
PO: 6	It makes the students competent enough to use Microbiology knowledge and skills to analyze problems involving microbes and undertake remedial measures.
PO: 7	In addition, students are to be trained to use this knowledge in day-today applications and get a glimpse of research.
PO: 8	The students graduating in B.Sc. Microbiology degree must have thorough understanding the fundamentals of Microbiology as applicable to wide ranging contexts.
PO: 9	They should have the appropriate skills of Microbiology so as to perform their duties as microbiologists.
PO: 10	They must be able to analyze the problems related to Microbiology and come up with most suitable solutions.
PO: 11	As Microbiology is an interdisciplinary subject the students might have to take inputs from other areas of expertise. So, the students must develop the spirit of team work.



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PROGRAM SPECIFIC OBJECTIVES:

THE B.SC. MICROBIOLOGY PROGRAM WILL ENABLE THE STUDENTS;

PSOB-1	To learn basic concepts of amazing world of Microorganisms, Techniques in Microbiology, basics of Bacteriology, Cultivation and growth of Micro-organisms.
PSOB-2	To understand concepts of Medical Microbiology, Epidemiology, Immunology, Bacterial Physiology, Fermentation Technology, Bacterial Genetics, Air, Water and Soil Microbiology.
PSOB-3	To strengthen the fundamentals of various fields of Microbiology.
PSOB-4	To develop scientific aptitude and motivate students to take up higher studies like MSc microbiology and Research.
PSOB-5	To realize and appreciate the applicability of knowledge and Interdisciplinary approach in everyday life.

PROGRAM SPECIFIC OUTCOMES:

AFTER SUCCESSFUL COMPLETION OF B.SC. MICROBIOLOGY COURSE, STUDENT WILL HAVE:

PSOC-1	Understanding of Basic Concepts and Advanced knowledge of theory and practical courses in Microbiology.
PSOC-2	Subject knowledge to solve issues like bioremediation, Waste management and diagnostics.
PSOC-3	Competency in laboratory safety and in routine and specialized microbiological laboratory skills.
PSOC-4	Motivation to involve in research activities, including accurately reporting observations and analysis.



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SEMESTER- I PAPER – I (DSC 25 A) INTRODUCTION TO MICROBIOLOGY

CLO-1	To develop a good knowledge of the development of the discipline of Microbiology and the contributions made by prominent scientists in this field.
CLO-2	To develop a very good understanding of the characteristics of different types of microorganisms, methods to organize/classify these into and basic tools to study these in the laboratory.
CLO-3	To explain the useful and harmful activities of the microorganisms and scope of different branches of Microbiology.
CLO-4	To describe characteristics of bacterial cells, cell organelles and various appendages like capsules, flagella or pili.

SEMESTER- I PAPER – II (DSC 26 A) BASIC TECHNIQUES IN MICROBIOLOGY

CLO-1	To study the staining techniques for the observation of bacteria and bacterial cell components
CLO-2	To study the working principle, handling and use of microscopes for the study of microorganisms
CLO-3	To understand the principles of sterilization and disinfection of culture media, glassware and plastic ware and other objects to be used for microbiological work.



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SEMESTER- II PAPER – III (DSC 25 B): BACTERIOLOGY

CLO-1	To describe the nutritional requirements of bacteria and other microbes which grow under extreme environments.
CLO-2	To understand the basic laboratory experiments to isolate, cultivate and differentiate bacteria
CLO-3	To study the preservation of bacteria in the laboratory

SEMESTER- II PAPER - IV (DSC 26 B): MICROBIAL BIOCHEMISTRY

CLO-1	To develop a very good understanding of various biomolecules which are required for development and functioning of a bacterial cell.
CLO-2	To develop the knowledge of how the carbohydrates make the structural and functional components such as energy generation and as storage food molecules for the bacterial cells
CLO-3	To make well conversant about multifarious structures and functions of proteins, enzymes, lipids and nucleic acids.
CLO-3	To differentiate the concepts of aerobic and anaerobic respiration and how these are manifested in the form of different metabolic pathways in microorganisms.



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PRACTICAL COURSE PAPER I & II: INTRODUCTION TO MICROBIOLOGY AND BASIC TECHNIQUES IN MICROBIOLOGY	
CLO-1	To understand the basic techniques in Microbiology laboratory
CLO-2	To study the working principle, handling and use of compound microscope for the study of microorganisms
CLO-3	To study the simple and special staining techniques for the observation of bacteria and bacterial cell components
CLO-4	To understand the working principles and applications various equipment's in Microbiology laboratory
CLO-5	To study the preparation, sterilization and use of various culture media.



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SEMESTER- III Paper –V DSC- C 25 Microbial Physiology & Metabolism

CLO-1	Analyse the energy yield of different biological reactions.
CLO-2	Apply knowledge of theory to practice
CLO-3	Calculate the energy cost of the construction of the different cell components.
CLO-4	Calculate the energy cost of the construction of the different cell components.
CLO-5	Describe the diversity of mechanisms by which microorganisms adapt to their environment.
CLO-6	Determine metabolic rates in closed and continuous culture, and balances of carbon and reducing power of different metabolic processes.
CLO-7	Identify and solve problems.
CLO-8	Identify the different mechanisms that provide a basis for microbial bioenergetics.
CLO-9	Know the factors that regulate cell and population growth populations in closed and continuous culture.
CLO-10	Obtain, select and manage information.
CLO-11	Solve problems in relation to the metabolism and physiology of microorganisms.
CLO-11	Use bibliography or internet tools, specific to microbiology or other related disciplines, both in English and in the first language.



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SEMESTER- III Paper –VI DSC- C 26 Applied Microbiology	
After successful completion of this course, the students are expected to:	
CLO-1	Competently explain various aspects of environmental microbiology.
CLO-2	Aware about the pollution, Water and air-borne diseases and their transmission, methods of determination of sanitary quality of water and sewage treatment methods employed in waste water treatment.
CLO-3	Appreciate the diversity of microorganisms and learn the abundance, distribution and significance of microorganism in the environment such as bioremediation and Plant microbe interactions understand various biogeochemical cycles - microbes involved and biochemical mechanisms of Carbon, Nitrogen, Phosphorus cycles etc.
CLO-11	Use bibliography or internet tools, specific to microbiology or other related disciplines, both in English and in the first language.
SEMESTER- IV VII DSC- D 25: Microbial Genetics & Molecular Biology	
CLO-1	Understanding of fundamental concepts in microbial genetics.
CLO-2	Insight into genetic methods used to investigate interesting biological problems.
CLO-3	Insight into current, exciting topics in microbial genetics and related fields.
CLO-4	Experience in reading and evaluating scientific articles.
CLO-5	Understanding of how microbial genetics has advanced science and society.



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SEMESTER- III Paper – VIII DSC- D 26 : Basics in Medical Microbiology & Immunology After successful completion of this course, the students are expected to:	
CLO-1	The Medical Microbiology course has been formulated to impart basic and medically relevant information on the microbes.
CLO-2	The microbial structure, growth and development, methods and role of sterilization in the context of study of microbes are included.
CLO-3	The pathogenic microbes and the diseases caused by them are included to broaden the perspective of the subject.
CLO-4	This course will also focus on mechanisms of microbial pathogenesis and the host response, and the scientific approaches that are used to investigate these processes.
CLO-5	Lastly the course deals with the problem of emerging antimicrobial resistance with reference to known pathogens.
CLO-6	The students will learn how to analyze various clinical patient's samples, for estimation of different components which are the cause of the immune disease or are the diagnostic/prognostic markers.
CLO-7	This subject gives information about various clinically important cells of immune system, lymphoid organs, antigen (Ag), antibody (ab), Ag-Ab reactions, transplant immunology etc. & automation techniques.



B.SC.III MICROBIOLOGY SEMESTER V COURSE IX DSE - E 49 VIROLOGY	
UPON SUCCESSFUL COMPLETION OF THIS COURSE THE STUDENT WILL BE ABLE TO	
CLO-1	Understand the architecture of viruses, their classification and the methods used in their study.
CLO-2	Discern the replication strategies of representative viruses from the seven Baltimore classes and comprehend the intricate interaction between viruses and host cells
CLO-3	Comprehend the role of viruses in oncogenesis, and ways of preventing/ treating viral infections.
CLO-4	Know how viruses can be used as tools to study biological processes, as cloning vectors and for gene transfer.
COURSE X: DSE - E 50 - IMMUNOLOGY	
CLO-1	Demonstrate and understanding of key concepts in immunology along with overall organization of the immune system.
CLO-2	Begin to appreciate the significance of maintaining a state of immune tolerance sufficient to prevent the emergence of autoimmunity.
CLO-3	To understand about Tumor Immunology and help the students to understand its immune prophylaxis and immune therapy.
CLO-4	To make them understand the salient features of antigen antibody reaction & its uses in diagnostics and various other studies.
CLO-5	Learn about immunization and their preparation and its importance



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COURSE XI: DSE - E 51 FOOD AND INDUSTRIAL MICROBIOLOGY

CLO-1	Understand the beneficial role of microorganisms in food processing and the microbiology of different types of fermented foods – pickles, bread, Idli, Tempeh etc.
CLO-2	Study the different types of microorganisms in milk and their activities - fermented dairy products and spoilage and their applications as probiotics
CLO-3	Understand the significance and activities of microorganisms in various food and role of intrinsic and extrinsic factors on microbial growth in foods leading to spoilage, and understand the principles underlying the preservation methods
CLO-4	Recognize and describe the characteristics of important food borne pathogens and learn various methods for their isolation, detection and identification
CLO-5	Understand of the basis of food safety regulations and discuss the rationale for the use of standard methods and procedures for the microbiological analysis of food.

COURSE XII: DSE - E 52 – AGRICULTURAL MICROBIOLOGY

CLO-1	Know the basic principles of Agricultural Microbiology and have an understanding of the structural characteristics, the functionality and the integration of microorganisms in their natural environment.
CLO-2	Be familiar with the experimental procedures applied in Agricultural Microbiology and be able to interpret the scientific data acquired.
CLO-3	Be able to comprehend the potential of microorganism applications in the food industry and in the agro-biotechnological sector.



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B.SC.III MICROBIOLOGY SEMESTER VI COURSE XIII DSE F49: MICROBIAL GENETICS

CLO-1	Understand the structure, properties and function of genes in living organisms at the molecular level and knowledge about DNA as a genetic material, enzymology, and replication strategies molecular mechanisms involved in transcription and translation.
CLO-2	Describe the importance of genetic code and wobble hypothesis and discuss the molecular mechanisms underlying mutations, detection of mutations, DNA damage and repair mechanisms
CLO-3	Explain the concept of recombination, linkage mapping and elucidate the gene transfer mechanisms in prokaryotes and eukaryotes
CLO-4	Handle and independently work on lab protocols involving molecular techniques

COURSE XIV DSE F50: MICROBIAL BIOCHEMISTRY

CLO-1	Describe the concepts of pH, buffers, Henderson-Hasselbalch equation, biological buffer systems and their importance.
CLO-2	Understanding the laws of thermodynamics, concepts of entropy, enthalpy and free energy changes and their application to biological systems and about various biochemical reactions and metabolic pathways.
CLO-3	Overview of major biomolecules –carbohydrates, lipids, proteins, amino acids, nucleic acids, classification, structure, function, significance and biosynthesis and the degradation pathways of the above-mentioned biomolecules
CLO-4	Conceptual knowledge of properties, structure, function of enzymes, enzyme kinetics and their regulation, enzyme engineering, Application of enzymes in large scale industrial processes.



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COURSE XV DSE F51: ENVIRONMENTAL MICROBIOLOGY

CLO-1	Competently explain various aspects of environmental microbiology –water, air and soil and comprehend about water pollution, Water-borne diseases and their transmission, methods of determination of sanitary quality of water and sewage treatment methods employed in waste water treatment
CLO-2	Appreciate the diversity of microorganisms and learn the abundance, distribution and significance of microorganism in the environment such as bioremediation and plant microbe interactions
CLO-3	Understand the various biogeochemical cycles - microbes involved and biochemical mechanisms of Carbon, Nitrogen, Phosphorus cycles etc.

COURSE XVI DSE F52: MEDICAL MICROBIOLOGY

CLO-1	Has knowledge of medical microbiology and the importance of microorganisms in diagnosis, monitoring and treatment of infectious diseases
CLO-2	Has knowledge of prokaryotic genetics, taxonomy, growth conditions and virulence
CLO-3	Has knowledge of viruses and classification of viruses
CLO-4	Has knowledge of eukaryotic microorganisms and their role in infectious diseases
CLO-5	Has knowledge of normal flora, key concepts in medical microbiology, infection control and epidemiology
CLO-6	Has the knowledge of detection methods of bacteria and virus in specimens as well as quality assurance of these methods
CLO-7	Has knowledge about antimicrobial resistance
CLO-8	Has knowledge of sustainability, innovation and innovation processes



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PROGRAMME OUTCOMES (PO'S) AND COURSE OUTCOMES (CO'S) FOR CHEMISTRY



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B.Sc. Chemistry Programme Outcomes (POs)

After completing B.Sc. degree programme, the students will be able to

PO1:	Offer theoretical as well as practical knowledge about different special subject areas.
PO2:	Understand the academic field to pursue multi and interdisciplinary science careers in future that include Chemistry, Physics, Botany, Zoology, Mathematics, Microbiology and Computer Science.
PO3:	Plan and execute experiments or investigations, analyse and interpret data information collected using appropriate methods.
PO4:	Develop scientific temper and attitude which is more beneficial for the society as the scientific developments and make a nation or society to grow at a rapid pace through research.
PO5:	Think critically, follow innovations and developments in science and technology.
PO6:	Understand the issues of environmental contexts and sustainable development.
PO7:	Acquire the skills and ability to engage in independent and life-long learning in the broadest context socio technological changes.
PO8:	Demonstrate professional and ethical attitude with enormous responsibility to serve the society.



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Programme Specific Outcomes (PSOs)

PSO1:	Use the knowledge of Chemistry through theory and practicals.
PSO2:	Identify the structure-activity relationship.
PSO3:	Explain good laboratory practices and safety.
PSO4:	Create the research-oriented skills.
PSO5:	Use of sophisticated instruments/equipment's.



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Course Outcomes (COs)

After completion of these course students should be able to

B. Sc. I Semester I

DSC-3A- Chemistry paper I (Inorganic Chemistry)

CO1	Explain the Bohr's theory of hydrogen atom and its limitations, Wave particle quality, Heisenberg uncertainty principle, Quantum numbers and their significance, Shape of s, p and d atomic orbitals.
CO2	Describe a) Aufbau's principle b) Hund's rule of maximum multiplicity c) Pauli's exclusion principle.
CO3	Predict the Periodicity of the elements.
CO4	Relate the Chemical Bonding and Molecular structure.
CO5	Discuss Valence bond theory (VBT).
CO6	Compare the Molecular orbital theory (MOT) and Valence bond theory (VBT).

DSC-4A- Chemistry paper II (Organic Chemistry)

CO7	Describe Curved arrow notations, Cleavage of Bonds: Homolysis and Heterolysis Organic molecular species: Nucleophiles and electrophiles. Electronic Displacements: Inductive Effect, Electromeric Effect, Resonance and Hyperconjugation effect.
CO8	Explain Reactive Intermediates: Generation, Structure, Stability and Reactions of Carbocations, Carbanions and carbon free radicals.
CO9	Predict the Nomenclature of stereoisomers: D and L, erythro and threo, R and S, E and Z.
CO10	Discuss the Aromaticity concept and predict the Aromatic, non-aromatic, Antiaromatic, Pseudoaromatic compounds.
CO11	Relate the Cycloalkanes, cycloalkenes and alkadienes.
CO12	Describe a) Photohalogenation b) Catalytic halogenations c) Catalytic hydrogenation d) Effect of heat e) Reaction with hydrogen halide.

B.Sc. I Semester II	
DSC-4B-Chemistry Paper IV (Analytical Chemistry)	
CO13	Explain Analytical processes (Qualitative and Quantitative), Methods of analysis (Only classification), Sampling of solids, liquids and gases, Errors.
CO14	Discuss the Basic Principle of Chromatography, Basic terms, Classification of Chromatography.
CO15	Comparison of paper chromatography and TLC
CO16	Outline of titrimetric Analysis such as Strong acid-strong base, Strong acid-weak base, Strong base-weak acid, Complexometric titrations.
CO17	Use and Applications Water Analysis.
CO18	Explain the Analysis of Fertilizers.
Chemistry-DSC 3B: Chemistry Paper-III (Physical Chemistry)	
CO19	Explain the First law of thermodynamics, Statements of second law of thermodynamics, Carnot's cycle and its efficiency, Statement of Third Law of thermodynamics.
CO20	Solve the Problem based on thermodynamics.
CO21	Discuss the Concept of standard state and standard enthalpies of formations, integral and differential enthalpies of solution and dilution.
CO22	Compare between ΔG and ΔG° , Le Chatelier's principle. Relationships between K_p , K_c and K_x for reactions involving ideal gases.
CO23	Relate Postulates of Kinetic Theory of Gases and derivation of the kinetic gas equation, Ideal and Non ideal gases.
CO24	Illustrate Deviation of real gases from ideal behaviour, compressibility factor, causes of deviation. Van der Waals equation of state for real gases.
CO25	Find the Derivation of Zero order reaction, first order reaction, Pseudounimolecular reactions, second order reaction.
B.Sc. Part II (CBCS) Sem III	
Paper No. DSC- C3 - Chemistry paper no. V (Physical Chemistry)	
CO26	Discuss Types of conductors, Conductivity, Equivalent and Molar conductivity and Their variation with dilution for weak and strong electrolytes in aqueous solution.
CO27	Illustrate the conductance by using Wheatstone bridge. Kohlrausch law of independent migration of ions and its applications such as Ionic mobility, determination of degree of ionization of weak electrolyte, solubility and solubility products.
CO28	Describe all Physical Properties of Liquids and Third order reactions, derivation of rate constant.
CO29	Explain the Adsorption as a surface phenomenon, Definition of adsorption, adsorbent, adsorbate, absorbent. Factors affecting adsorption, Types of adsorptions.
CO30	Compare between physical and chemical adsorption, Adsorption isotherms: Freundlich adsorption isotherm, Langmuir adsorption isotherm.

CO31	Outline of Types of Nuclear radiation, properties of α , β and γ radiations, Detection and measurement of nuclear radiations by Scintillation and Geiger muller counter methods.
Paper No. DSC-C4- Chemistry paper no. VI (Industrial Chemistry)	
CO32	Explain the Basic Concepts in Industrial Chemistry.
CO33	Compare between classical chemistry and industrial chemistry.
CO34	Find the Normality, Equivalent weight, Molality, Molecular weight, Molarity, Molarity of mixed solution.
CO35	Describe the method of Size reduction- Principle, Jaw crusher, ball mill, Size Enlargement Principle, Pellet mill, tumbling agglomerators.
CO36	Discuss the Theory of Corrosion and Electroplating.
CO37	Use and Manufacturing Paper Industry and Soaps and Detergent
B.Sc. Part II (CBCS) Sem IV	
Paper No. DSC-D3- Chemistry paper no. VII (Inorganic Chemistry)	
CO38	Describe the concept in Co-ordination chemistry
CO39	Compare between double salt and complex salt.
CO40	Find the IUPAC nomenclature of coordination compounds.
CO41	Explain the Chelation, classification and its applications.
CO42	Outline of P- Block elements and its characteristics.
CO43	Discuss the Characteristics of d-block elements with special reference to i) Electronic structure ii) Oxidation states, stability of oxidation states of Fe with respect to Latimer diagram iii) Magnetic character iv) Colored ions v) Complex formation.
CO44	Find the Application of complex formation.
Paper No. DSC- D4 - Chemistry paper no. VIII (Organic Chemistry)	
CO45	Explain the reaction and methods of Preparation of Carboxylic acids and their derivatives.
CO46	Describe the Classification, Nomenclature, structure, Methods of preparation and reactions of Amines and Diazonium Salts.
CO47	Compare the reducing and non-reducing sugars.
CO48	Discuss the Classification of carbohydrates.
CO49	Relate the Reactivity of Carbonyl group and categorize its reactions
CO50	Outline of Representation of conformations of ethane by using Saw- Horse, Fischer (dotted line wedge) and Newmann's projection formulae and ethane and n-butane by Newmann's Projection formula.
B. Sc III Chemistry Semester-V	
Paper XI Physical Chemistry	
CO51	Describe Heisenberg Uncertainty Principle, concept of energy operator, particle in one dimensional box.
CO52	Define Quantum theory, explain Schrodinger wave equation, emf measurement and its application.

CO53	Analyze electromagnetic spectrum, Raman Spectra compare and contrast rotational spectra, vibrational spectra, vibrational Raman spectra and rotational Raman spectra of diatomic molecule.
CO54	Write Photochemical Law's, reactions and various Photochemical Phenomena.
CO55	Classify solutions, relation vapour pressure temperature relations.
CO56	Compare between electrodes and cells.
Paper IX Inorganic Chemistry	
CO57	Find the meaning of various terms involved in Acids and Bases.
CO58	Describes the shapes of d-orbitals.
CO59	Discuss the Applications of Semiconductor and Superconductors.
CO60	Predict the mechanism involved in Organometallic Chemistry.
CO61	Expalin the homogenous catalysis and heterogeneous catalysis.
CO62	Predict the degeneracy of d-orbitals.
Paper X Organic Chemistry	
CO63	Describe the principle of UV Spectroscopy.
CO64	Impart the concept of vibrational Transitional region of IR Spectrum.
CO65	Illustrate the Structure of Unknown Organic compounds.
CO66	Compare between UV and NMR.
CO67	Explain the principle of mass spectroscopy.
CO68	Solve the problem based on UV, NMR and IR.
Paper XII Analytical Chemistry	
CO69	Explain the Precipitation Techniques.
CO70	Discuss the applications of organic precipitants.
CO71	Explain the Principle of flame photometry.
CO72	Design the experimental set up for flame photometry.
CO73	Describe the theory of Colorimetry and spectrophotometry.
CO74	Identify the concept of Quality control.
CO75	Categorised the different functional group based on Chromatography.
B. Sc III Chemistry Semester-VI	
Paper XIII Inorganic Chemistry	
CO75	Explain SN 1 and SN 2 reactions for inert and labile complexes.
CO76	Describe the Thermodynamic and Kinetic aspects of metal complexes.
CO77	Discuss the Nuclear reactions and energetic of nuclear reactions.
CO78	Use of Thorium, Uranium and Plutonium in atomic energy.
CO79	Compare between lanthanide and actinides.
CO80	Predict Biological role of alkali and alkaline earth metal ions with special reference to Na ⁺ , K ⁺ and Ca ²⁺ .

Paper No. XIV Organic Chemistry	
CO81	Use and application Lithium aluminium hydride LiAlH_4 , Raney Nickel, Osmium tetroxide, Selenium dioxide (SeO_2), Dicyclohexyl Carbodiimide (DCC), Diazomethane.
CO82	Explain the Diels -Alder reaction, Meerwein –Pondorff-Verley reduction, Hofmann rearrangement, Wittig reaction, Wagner- Meerwein rearrangement, Baeyer Villiger oxidation.
CO83	Discuss the Retrosynthesis of different Molecules.
CO84	Describe Electrophilic addition to $>\text{C}=\text{C}<$ and $-\text{C}\equiv\text{C}-$ bonds.
CO85	Solve the problem based on addition reaction.
CO86	Impart the concept of Anti-Markovnikoff's addition.
CO87	Explain Synthesis and uses of ethambutal, phenobarbitone, isoniazide, benzocaine, Chloramphenicol, paludrine.
CO88	Outline the biogenesis of Alkaloids, Terpenoids.
Chemistry Paper No. XV (Physical Chemistry)	
CO89	Discuss Gibbs phase rule, Phase diagram, true and metastable equilibria.
CO90	Compare one component systems and two component systems.
CO91	Describe the concept of Thermodynamics and its applications
CO92	Explain the different State of solid, Laws of crystallography, Weiss indices and Miller indices.
CO93	Solve the Numerical problems based on Derivation of Bragg's equation.
CO94	Predict the Simultaneous reactions such as Opposing reaction, Side reaction, Consecutive reactions, Chain reaction, Explosive reaction.
Paper No. XVI (Industrial Chemistry)	
CO95	Discuss Manufacture of cane sugar in India: Extraction of juice, Clarification, Concentration, crystallization, centrifugation and other details of industrial process.
CO96	Explain the Manufacture of Industrial Heavy Chemicals.
CO97	Describe the use, Classification and applications of Synthetic Polymers.
CO98	Categorized the different term involved in nanotechnology.
CO99	Impart the role of Petroleum industry and eco-friendly fuels.
CO100	Identify the concept of Nanotechnology.



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NAAC GRADE - 'B'

(Affiliated to Shivaji University, Kolhapur.)

EST : JUN-1970

Junior College Code : 15
Junior College No. J-22-09-001
UDISE No.: 27350713220

(JUNIOR/SENIOR)

Principal : Dr. R. B. Bansode
M.A., M.Phil., Ph.D.

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PROGRAMME OUTCOMES (PO'S) AND COURSE OUTCOMES (CO'S) FOR ENGLISH



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Out Ward No. V.N.M. /

/

Date : / / 20

Department of English

Bachelor of Arts (B.A. English)

Programme Outcomes (POs)

After completing B. A. degree programme, students will be able to:

PO 1:	Realize and follow eternal human values.
PO 2:	Become a responsible and dutiful citizen.
PO 3:	Acquire scientific temperament and ability to think logically.
PO 4:	Nurture creativity in arts as well as in day-to-day life.
PO 5:	Get well acquainted with the social, economic, political, historical and geographical facts and trends in India as well as in the world.

PO 6:	Get acquainted with and respect the common cultural heritage of pluralism and mutual respect.
PO 7:	Respect core constitutional values like equality, social justice secularism and scientific approach.
PO 8:	Prepare for and qualify all types of competitive examinations after graduation.
PO 9:	Take keen interest in language and literature, both regional and global.
PO 10:	Acquire basic language skills like listening, speaking, reading and writing.
PO 11:	Communicate thoughts and ideas fluently and effectively in formal and informal situations



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Bachelor of Arts (B.A. English)

Programme Specific Outcomes (PSOs)

PSO1:	Students should be familiar with representative literary and cultural texts within a significant number of historical, geographical, and cultural Contexts
PSO2:	Students should be able to apply critical and theoretical approaches to the reading and analysis of literary and cultural texts in multiple genres.
PSO3:	Students should be able to identify, analyse, interpret and describe the critical ideas, values, and themes that appear in literary and cultural texts and understand the way these ideas, values, and themes inform and impact culture and society, both now and in the past.
PSO4:	Students should be able to write analytically in a variety of formats, including essays, research papers, reflective writing, and critical reviews of secondary sources.

PSO5:	Students should be able to ethically gather, understand, evaluate and synthesize information from a variety of written and electronic sources.
PSO6:	Students should be able to understand the process of Communicating and interpreting human experiences through literary representation using historical Contexts and disciplinary methodologies.

Course Outcomes (COs)

After the Completion of the course, the students will be able to:

B. A. I : English Optional Paper I: Modern Indian Writings in English Translation	
CO1:	Students get familiar with Indian literature in regional languages.
CO2:	Students take keen interest in English drama and poetry.
CO3:	Students get acquainted with dark Comedy.
CO4:	Students read and understand poetry of major Indian English poets.
B. A. I English Optional Paper II: Modern Indian Writings in English Translation	
CO5:	Students know short story as a minor form of literature.
CO6:	Students read and enjoy short stories in regional and English languages.
CO7:	Students know the techniques of translation.
CO8:	Students take interest in Indian languages.
B. A. II English Optional Paper III - Literature & Cinema:	
CO9:	Introduce film and its relationship to literature.
CO10:	Acquire film literacy through a working knowledge of basic film terminology.

CO11:	Develop critical approaches to engage with film adaptations.
CO12:	Establish a clear understanding of literature through film adaptations of literary texts.
B. A. II English Optional Paper IV: Partition Literature	
CO13:	Create an awareness of the partition scenario.
CO14:	Explain the hidden human dimensions of the partition.
CO15:	Elaborate on the impact of partition on society.
CO16:	Analyze the situation of women before & after the partition
B. A. II English Optional Paper V: Literature & Cinema	
CO17:	Handle the issues and practices of cinematic adaptations.
CO18:	Take keen interest in films.
CO19:	Know the relation between film and literature.
CO20:	Develop love for film studies.
B. A. II English Optional Paper VI - Partition Literature	
CO21:	Students are acquainted with partition literature in Indian languages
CO22:	Develop interest for history book related to partition
CO23:	Students watch films based on partition
CO24:	Students know the reasons and chronology of partition
B. A. III English Paper VII : Introduction to Literary Criticism	
CO25:	Develop critical thinking ability
CO26:	Enable students to read a piece of literature from critical point of view

CO27:	Get acquainted with literary term and trends
CO28:	Enable students to take critical and creative pleasure in reading different genres
B. A. III Paper- VIII Understanding Poetry	
CO29:	Enable students to understand poetry
CO30:	Introduce poetry from traditional to the modern
CO31:	Introduce various forms of the poetry
CO32:	Enable student to think critically
B. A. III Paper – IX Understanding Drama	
CO33:	Enable students to understand drama as a genre of literature
CO34:	Enable students to critically appreciate a play
CO35:	Introduce different forms of drama
CO36:	Improve literary taste
B. A. III Paper - X English Novel	
CO37:	Study of the emergence and development of the novel
CO38:	Know the background about the popularity of the novel
CO39:	Know the factors responsible for rise and development of the novel
CO40:	Introduce students to the major aspects of the novel form.
B. A. III Paper - XI Language and Linguistics	
CO41:	Know the Concept of Communication.
CO42:	Familiar with varieties of the English language.
CO43:	Know different levels of study of the English language.
CO44:	Know basic units of grammar.

B. A. III Paper -XII Introduction to Literary Criticism	
CO45:	Students can write critical essay on given piece of literature
CO46:	Students develop taste for extra reading and analysis
CO47:	Students write film as well as book review
CO48:	Develop critical thinking ability
B. A. III Paper- XIII Understanding Poetry	
CO49:	Enable students to improve creative thinking
CO50:	Students write poems in English
CO51:	Students love reading poetry
CO52:	Students write critical appreciation of poems in English
B. A. III Paper – XIV Understanding Drama	
CO53:	Enable students to understand drama as a genre of literature
CO54:	Enable students to critically appreciate a play
CO55:	Introduce different forms of drama
CO56:	Improve a literary taste
B. A. III Paper - XV English Novel	
CO57:	Study novel as genre of literature.
CO58:	Understand literary Contribution of R.K. Narayan in Indian English Literature.
CO59:	Comprehend the specific aspects of human nature.
CO60:	Develop taste for fiction in regional languages

B. A. III Paper XVI - Introduction to Modern Linguistics	
CO61:	Know words and phrases.
CO62:	Know and identify elements and types of clauses.
CO63:	Know types of sentences.
CO64:	Know the different ways of structuring clauses
B. A. I: English for Communication: Paper A	
CO65:	Know the Concept of Communication
CO66:	Familiar with the Communication skills.
CO67:	Students will know how to develop vocabulary.
B. A. I: English for Communication: Paper B	
CO68:	Acquire human values and developed cultured outlook
CO69:	Learn to use English in oral and written Communication.
CO70:	Learn to appreciate prose and poetry.
B. A. II - English for Communication Paper –C	
CO71:	Develop oral Communication skills in English.
CO72:	Develop written Communication skills in English.
CO73:	Equip with the language skills for use in their personal academic and professional life.
B. A. II: English for Communication: Paper D	
CO74:	Acquire essential employability skills
CO75:	Practice both language and soft skills.
CO76:	Cultivate broad, human and cultured outlook.
B A III English (c): English for Communication: Paper D	

CO77:	Communicate in English, in their day-to-day lives as well as at workplaces
CO78:	Face job interviews and Confidently efficiently
CO79:	Acquire soft skills required at workplaces and in real life
CO80:	Learn group behaviour and team work
CO81:	Learn to value and respect others' views and develop democratic attitude.
B.A. III English (c): English for Communication: Paper F	
CO82:	Face Competitive examinations confidently and efficiently with adequate linguistic competence
CO83:	Acquire professional skills required in media writing
CO84:	Learn to appreciate and enjoy reading poetry and prose passages
CO85:	Acquire human values and develop cultured outlook
B.Com. I -English for Business Communication	
CO86:	Know the concept of Business communication.
CO87:	Familiar with the business communication skills.
CO88:	Acquire human values and developed cultured outlook.
CO89:	Learn to use English in oral and written communication
CO90:	Appreciate prose and poetry.
B.Com. II - English for Business Communication: Paper C	
CO91:	Use English for sales and services
CO92:	Develop writing skills
CO93:	Draft an individual and committee business report
B. Com. II - English for Business Communication: Paper D	
CO94:	Skill of summarizing
CO95:	Use of English for banking Correspondence
CO96:	Use of English for Commercial letter writing.

B. Sc. I English for Communication: Paper A	
CO97:	Narrate incidents Correctly.
CO98:	Describe a person, object or place in English
CO99:	Enrich vocabulary and grammar of English
CO100:	Understand and appreciate poems.
B. Sc. I English for Communication: Paper B	
CO101:	Make formal reports
CO102:	Summarize the given paragraph.
CO103:	Write formal essays
CO104:	Communicate using E- mail
B Sc III English for Communication: Paper - C	
CO105:	Communicate in English, in oral and written modes, in their
	day-to-day lives as well as at workplaces
CO106:	Face job interviews Confidently and efficiently
CO107:	Acquire soft skills required at workplaces and in real life
CO108:	Learn group behaviour and team work
CO109:	Learn to value and respect others' views and develop democratic attitude
B Sc. III English for Communication: Paper- D	
CO110:	Face Competitive examinations Confidently and efficiently with adequate linguistic Competence
CO111:	Acquire professional skills required in media writing
CO112:	Learn to appreciate and enjoy reading poetry and prose passages
CO113:	Acquire human values and develop cultured outlook



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PROGRAMME OUTCOMES (PO'S) AND COURSE OUTCOMES (CO'S) FOR HISTORY



NAAC GRADE - 'B'

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Out Ward No. V.N.M. /

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Date : / / 20

Department of History

Programme outcomes: BA History

PO1. Developing Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.

PO2. Developing Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

PO3. Constructive Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.

PO4. Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

PO5. Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them

PO6. Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.

PO7. Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes



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/

Date : / / 20

Department of History

Course Outcomes

B.A. - I, Semester - I

Paper I: Rise of the Maratha Power (1600-1707)

Course Objectives:

The period from 1600 to 1707 was an important epoch in the history of Marathas. Chhatrapati Shivaji Maharaj established the Maratha state. Later, Chhatrapati Sambhaji, Chhatrapati Rajaram and Maharani Tarabai led the Maratha struggle of independence against the Mughal rule. The primary aim of this course is to introduce students to the history of the rise of Maratha power with main emphasis on life and work of Chhatrapati Shivaji Maharaj. The course is also expected to apprise the students with the sacrifices made by Maratha leaders and people to protect freedom and sovereignty of the region

B.A. - I, Semester – II

Paper II: Polity, Society and Economy under the Marathas (1600-1707)

Course Objectives:

1600 to 1707 was a period of rapid change in the history of Marathas. Chhatrapati Shivaji Maharaj established the Maratha state and initiated fundamental changes in the political, socio-economic and cultural life of the people. The course is designed to acquaint the students with the political, socio-economic and religious life of the people during the 1600-1707 period. It will educate the students about the policy and contribution of Chhatrapati Shivaji Maharaj



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Department of History

Course Outcomes

B.A. - II, Semester - III

Paper III: HISTORY OF MODERN MAHARASHTRA (1900 to 1960)

Course Outcomes:

- CO1. Understand the beginnings and growth of nationalist consciousness in Maharashtra
- CO2. Explain the contribution of Maharashtra to the national movement
- CO3. Give an account of various movements of the peasants, workers, women and backward classes
- CO4. Know the background and events which led to the formation of separate state of Maharashtra.

Paper IV: HISTORY OF INDIA (1757-1857)

Course Outcomes:

- CO1. Acquaint him with significant events leading to establishment of the rule of East India Company
- CO2. Know the colonial policy adopted by the company to consolidate its rule in India
- CO3. Understand the structural changes initiated by colonial rule in Indian economy.
- CO4. Explain the various revolts against rule of the East India Company.

IDS PAPER I: SOCIAL REFORMS IN INDIA

Course Outcomes:

- CO1. Understand the salient features of prominent socio-religious reform movements
- CO2. Explain the thought and work of Mahatma Phule for radical transformation of Indian society
- CO3. Know the measures taken by Rajashri Shah Maharaj for emancipation of lower classes and women
- CO4. Understand the thoughts of Ambedkar on the annihilation of the caste system and untouchability in India
- CO5. Know how the Indian constitution embodies the values of social justice and equality



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Course outcomes

B.A. - II, Semester – IV

Paper V: HISTORY OF MODERN MAHARASHTRA (1960-2000)

Course Outcomes:

- CO1. Acquaint himself with the contribution of eminent leaders of Maharashtra
- CO2. Know about the economic transformation of Maharashtra
- CO3. Understand the salient features of changes in society
- CO4. Explain the growth of education

Paper VI: History of Freedom Struggle (1858-1947)

Course Outcomes:

- CO1. Understand the events which lead to the growth of nationalism in India
- CO2. Acquaint himself with major events of the freedom struggle under the leadership of Mahatma Gandhi
- CO3. Explain the contribution of Revolutionaries, Left Movement and Indian National Army
- CO4. Know the concept of Communalism and the causes and effects of the partition of India

IDS PAPER II: SOCIAL REFORMS IN MAHARASHTRA

Course Outcomes:

- CO1. Know about the beginnings of social reforms in Maharashtra by the Paramhansa Mandali and Prarthana Samaj.
- CO2. Understand the contribution of women reformers
- CO3. Explain the contribution of Social reformers in the fight for social justice
- CO4. Explain the role played by educational reforms in transformation of society.



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P.P. Swami Vivekanand Sevashram Sanstha, Shirala's
**VISHWASRAO NAIK ARTS, COMMERCE &
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Tal.: Shirala, Dist.: Sangli, Maharashtra - 415408

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Out Ward No. V.N.M. /

/

Date : / / 20

Department of History

Course Outcomes

B.A. - III, Semester – V

Paper VII: Early India (from beginning to 4th c. BC)

Course Outcomes:

After studying the course the student will be able to ...

- 1) Understand the transition of humans in India from Hunters to Farmers
- 2) Explain the transition from Early to Later Vedic period.
- 3) Clarify the causes for the first and second urbanizations
- 4) Give an account of the teachings of Gautama Buddha and Vardhamana Mahavira
- 5) Describe the rise and growth of the Mauryan Empire
- 6) Explain the salient features of Ashoka's Dhamma

Paper VIII: History of Medieval India (1206-1526 AD)

Course Outcomes:

After studying the course the student will be able to...

- 1) Describe the different types of historical sources available for writing the history of Medieval India
- 2) Explain the contributions of medieval rulers like Allaudin Khilji, Muhammad-bin-Tughlaq, Krishnadevraya, and Mahmud Gavan
- 3) Give an account of the administration and economy of the Delhi sultanate and Vijayanagar Empire
- 4) Elucidate the significant developments which took place in religion, society and Culture

Paper IX: Age of Revolutions

Course Outcomes:

After studying the course the student will be able to...

- 1) Explain the causes and consequences of the Reformation
- 2) Give an account of the role played by Martin Luther
- 3) Explain the salient features of the Industrial revolution
- 4) Give an account of the American Revolution
- 5) Explain the causes, effects and major events of French Revolution
- 6) Explain the role of major leaders of the French Revolution

Paper X: Political History of the Marathas

Course Outcomes:

After studying the course the student will be able to...

- 1) Describe the political conditions of the Marathas upto the year 1740
- 2) Explain the role of Balaji Bajirao.
- 3) Explain the causes and effects of the Battle of Panipat.
- 4) Understand the political condition of the Marathas after 1761.
- 5) Critically analyze the causes for the decline of Maratha power.

Paper XI: History: It's Theory

Course Outcomes:

After studying the course the student will be able to...

- 1) Understand the definition and scope of the subject of History
- 2) Know the process of acquiring historical data
- 3) Explain the process of presenting and writing history
- 4) Understand the methods of writing history



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Department of History

Course Outcomes

B.A. - III, Semester – VI

Paper XII: Ancient India (From 4th c. BC to 7th c. AD)

Course Outcomes:

After studying the course the student will be able to...

- 1) Know the political, economic and religious developments which took place in early historic India
- 2) Explain the role played by Major Satavahana, Kushana, Gupta and Vakataka Kings
- 3) Give an account of the developments in the Post-Gupta period
- 4) Have an informed opinion about the society and culture of Ancient India

Paper XIII: History of Medieval India (1526-1707 AD)

Course Outcomes:

After studying the course the student will be able to...

- 1) Know about the various sources for writing Medieval Indian history
- 2) Explain the role of rulers like Babar, Akbar, Chandbibbi and Ibrahim Adilshah II
- 3) Gain knowledge about the administrative and revenue system
- 4) Describe the condition of Industry and trade
- 5) Explain important developments in religion, society and culture

Paper XIV: Making of the Modern World (16th to 19th Century)

Course Outcomes:

After studying the course the student will be able to...

- 1) Know the causes and consequences of the Glorious revolution in England
- 2) Explain the concept of Nationalism and account for its rise and spread.
- 3) Describe the unification of Italy and Germany

- 4) Give an account of the rise, growth and impact of Imperialism
- 5) Explain the significance of the Partition of Africa
- 6) Know the life and thoughts of important leaders like Metternich, Karl Marx and Abraham Lincoln

Paper XV: Polity, Economy and Society under the Marathas

Course Outcomes:

After studying the course the student will be able to...

- 1) Know the various sources for writing the history of the Marathas
- 2) Explain the significant developments in the polity of the Marathas
- 3) Describe the economic conditions
- 4) Explain the social conditions.

Paper XVI: Methods and Applications of History

Course Outcomes:

After studying the course the student will be able to...

- 1) Understand the nature of archival sources
- 2) Gain conceptual clarity about recent trends in history.
- 3) Know about the application of history in museums.
- 4) Explain the concept and scope of heritage tourism.




Head,
Dept. of History
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PROGRAMME OUTCOMES (PO'S) AND COURSE OUTCOMES (CO'S) FOR ECONOMICS



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Department of Economics

Programme Outcomes (POs)

After completing **B. A.** degree programme, students will be able to:

PO 1: Realize and follow eternal human values.

PO 2: Become a responsible and dutiful citizen.

PO 3: Acquire scientific temperament and ability to think logically.

PO 4: Nurture creativity in arts as well as in day-to-day life.

PO 5: Get well acquainted with the social, economic, political, historical and geographical facts and trends in India as well as in the world.

PO 6: Get acquainted with and respect the common cultural heritage of pluralism and mutual respect.

PO 7: Respect core constitutional values like equality, social justice secularism and scientific approach.

PO 8: Prepare for and qualify all types of competitive examinations after graduation.

PO 9: Take keen interest in language and literature, both regional and global.

PO 10: Acquire basic language skills like listening, speaking, reading and writing.

PO 11: Communicate thoughts and ideas fluently and effectively in formal and informal situations.



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Program Specific Outcomes (PSOs)

After Completing the graduation in Economics the student will be able to,

PSO1: Outline basic Concepts of economics.

PSO2: Analyse economic behaviour in practice.

PSO3: Explain the economic way of thinking.

PSO4: Justify historical and current events from an economic perspective.

PSO5: Write clearly expressing an economic point of view.

PSO6: Find alternative approaches to economic problems through exposure to
Coursework in allied fields.

PSO7: Create students' ability to suggest solutions for various economic
problems.

PSO8: Predict growth rate of Primary, Secondary and Service sector of the
Economy with help of economic parameters.



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Course Outcomes (COs)

Economics Course - Indian Economy I

After the successful completion of this course students will be able to,

CO1: Explain features of Indian Economy at independence era and structural changes in the Indian Economy.

CO2: Analyse inclusive growth in Indian Economy with sustainable development.

CO3: Express his /her own views on poverty and unemployment.

CO4: Analyse problems of social inequality and rising of Economy, problems and remedies of regional imbalance in India.

CO5: Explain concept of National Income, Per capita Income and Human Development Index.

CO6: Identify trend of population growth, impact of population on economic growth and population policy 2000.

Economics Course - Indian Economy II

CO7: Identify changing role of agriculture in Indian Economy.

CO8: Outline agricultural productivity, Green Revolution, need of 2nd Green Revolution and agricultural pricing and procurement.

CO9: Analyse need of industrialization, Industrial Policy since 1991, Problems and prospects of cottage and small-scale Industries and Foreign Investment Policies since 1991.

CO10: Describe growing importance of service sector, Significance of Banks, financial Institutions and Insurance, Importance of IT1, transport, Communication and tourism.

CO11: Explain Concept, implementation and impact on Indian Economy of Liberalization, Privatization and Globalization.

CO12: Remembering recent export promotion policy.

Economics Course – Principles of Macro Economics I

CO13: Analyse Concept of macroeconomics with definition, nature and Scope.

CO14: Analyse inclusive growth in Indian Economy with sustainable development.

CO15: Explain concept of GNP2, NNP3, GDP4, and GDP at market price, Per Capita Income and Disposable Income.

CO16: Analyse methods of measuring national Income with difficulties and importance.

CO17: Explicate functions of money and theories of money, Index numbers and its importance.

CO18: Analyse Say's market law, Keynesian theory of employment, Consumption function, investment function and multiplier.

Economics Course – Money and Banking

- CO19: Analyse functions of Commercial banks, types of banks, investment policy of Commercial banks, process of credit creation and its limitations.
- CO20: Analyse features of bank account, opening, KYC5 and closing account, bankers and customers rights and obligations.
- CO21: Identify History and organizational structure of Reserve Bank of India with functions, monetary policy and credit creation.
- CO22: Explicate bank Ombudsman scheme with meaning, power and duties.
- CO23: Analyse process and importance of loan, advantages and disadvantages of bank merge.
- CO24: Justify NPA and its causes and remedies.

Economics Course – Principles of Macro Economics II

- CO25: Explain inflation with meaning, types, causes, effects and remedies of Controlling inflation.
- CO26: Describe trade cycles and its Phases.
- CO27: Identify Hawtrey and Schumpeter theory of trade cycles.
- CO28: Analyse meaning, nature and Scope of Public Finance with principle of maximum social advantage. As well as taxation and budget.
- CO29: Justify public expenditure with meaning and causes of growth of Public expenditure.
- CO30: Illustrate public debt, Deficit Financing and Fiscal Policy.

Economics Course – Banks and Financial Markets

- CO31: Describe financial system in India. Structure and Importance of Financial System and Features and Structure of Money and Capital Market in India.
- CO32: Compare Capital Market and Money market in India with Role of SEBI.
- CO33: Demonstrate Indian Financial Institutions, like Non-Bank Financial Institutions, Loan Companies in India, EXIM Bank and Mutual Funds.
- CO34: Analyse Recommendation of the Narasimham Committee of 1991 and 1998.
- CO35: Interpret Foreign Direct Investment in banking and Payment Bank with Small Finance Banks.
- CO36: Applying E-Banking Service in daily use.

Economics Course - Principles of Micro Economics I (DSE E-71)

- CO37: Explain Meaning, Nature and Scope of Micro Economics as well as its importance and limitations.
- CO38: Framework economic analysis using economic parameters.
- CO39: Express his /her own views about consumer behaviour.
- CO40: Deep explain how to fluctuate demand and supply in market.
- CO41: Describe various parameters related to demand and supply.
- CO42: Explain production theories and cost-benefit analysis of the firm.

Economics Course - Economics of Development (DSE E-72)

- CO43: Explain concept of economic development and difference between economic development and growth.
- CO44: Explain indicators of economic development, Sustainable and green development.
- CO45: Identify underdeveloped economies, characteristics of underdeveloped economies, affecting factors on economic development.
- CO46: Illustrate features of economic development and development status of Indian Economy.
- CO47: Analyse Ricardian classical approach to the development, Myrdal's theory of economic development, Rostow's stages of economic growth and balanced and unbalanced theory of growth.
- CO48: Build up resources for economic development like Human Capital, Technology, FDI, Aids etc.

Economics Course - International Economics I (DSE E-73)

- CO49: Explain what trade is and trade theories of Ricardian and Heckscher-Ohlin theory of international trade.
- CO50: Explain unmistakably importance of international trade and its study, Similarities and dissimilarities in inter-regional and international trade.
- CO51: Clarify of gains from International trade and its measurement.
- CO52: Analyse how to become trade engine of economic growth, terms of trade and factors affecting terms of trade.
- CO53: Explain meaning of exchange rate, PPP theory, Concept of fixed exchange rate, flexible exchange rate and floating exchange rate.
- CO54: Explicate tariffs and quotas, free trade and trade protection policy.

Economics Course - Research Methodology in Economics I (DSE E-74)

CO55: Analyse basic Concept of research and its methodology.

CO56: Explain types of research with meaning and objectives.

CO57: Carry out a literature review, Steps of research, features of good research design and importance of research design.

CO58: Analyse and clarify Concept of hypothesis which is very important for research with Kinds of hypothesis, features of hypothesis and importance of hypothesis.

CO59: Use of methods of data Collection in his/her research.

CO60: Clarify sources of primary and secondary data and importance of data Collection.

Economics Course - History of Economic Thoughts I (DSE E-75)

CO61: Explain basic economic ideas of economist of the world.

CO62: Explain thoughts of classical economist like, Adam Smith's theory of value and canon and taxation, Malthusian theory of population etc.

CO63: Describe economic thoughts of great economist Fredrick List on stages of economic growth.

CO64: Interpret concept of nationalism and theory of protectionism.

CO65: Analyse thoughts of Karl Marks about economic development.

CO66: Manipulate scientific Concept of socialism and materialist, Theory of value, Theory of Surplus value and concept of falling rate of profit.

Economics Course - Principles of Micro Economics II (DSE E-196)

CO67: Identify the market structure.

CO68: Analyse the economic behaviour of individual firms and markets

CO69: Explain a firm's profit maximizing strategies under different market conditions.

CO70: Justify the factor pricing.

CO71: Interpret modern theory of rent.

CO72: Comprehension classical and Keynesian theory of interest and risk and uncertainty theory of profit.

Economics Course – Economics of Planning (DSE E-197)

CO73: Illustrate economic planning and its importance in development.

CO74: Analyse development of planning and planning machinery in India.

CO75: Evaluate sectorial performance of the Indian Economy.

CO76: Explain NITI Ayog, need for establishment, organization, objectives and work.

CO77: Identify plan models in Indian plan period.

CO78: Compare and analyse Indian models of economic development.

Economics Course – International Economics II (DSE E-198)

CO79: Illustrate difference between balance of trade and balance of payments.

CO80: Analyse the balance of payments.

CO81: Analyse measures to correct disequilibrium in balance of payments.

CO82: Discuss the various types of foreign capital.

CO83: Compute the trends of Foreign Direct Investment in India.

CO84: Analyse the impact of international institutions on Indian Economy.

Economics Course - Research Methodology in Economics II (DSE E-199)

CO85: Explain the sampling techniques as a method of data Collection.

CO86: Analyse optimum size of sampling.

CO87: Use techniques of data analysis in research.

CO88: Classified the data in tabular form.

CO89: Justify how to write a research report and thesis.

CO90: Clarify how to write a research proposal for grants.

Economics Course - History of Economic Thoughts II (DSE E-200)

CO91: Interpret economic ideas of Alfred Marshall.

CO92: Illustrate views of Mahatma Phule on agriculture and education.

CO93: Analyse views of Rajarshi Shahu Maharaj on agriculture and Cooperation.

CO94: Explain views of Dr. Babasaheb Ambedkar on money, agriculture and development policy. As well as Drain theory of Dadabhai Nauroji.

CO95: Justify views of Mahatma Gandhi views on village development, Swadeshi and Gram Swarajya.

CO96: Clarify economic thoughts of Gopal Krishna Gokhale, D. R. Gadgil, V.M. Damdekar and Amartya Sen.



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PROGRAMME OUTCOMES (PO'S) AND COURSE OUTCOMES (CO'S) FOR MARATHI



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Marathi (B. A course)

PO (Programme Outcome)

- PO १. विद्यार्थ्यांची मराठी भाषा आणि साहित्याभिरुची विकसित करणे.
- PO २. साहित्यप्रकार, विविध प्रवाह आणि वाङ्मयीन परंपरांचा परिचय करून देणे.
- PO ३. विद्यार्थ्यांच्या सर्वांगीण विकासाला चालना देणे.
- PO ४. अंतर्गत मूल्यमापन, विद्यापीठीय आणि स्पर्धा परीक्षेसाठी मार्गदर्शन करणे.
- PO ५. विद्यार्थ्यांमध्ये लेखन आणि संवाद कौशल्ये विकसित करणे.
- PO ६. प्रसारमाध्यमांवरील भाषिक उपयोजनासाठी प्रोत्साहन देणे.
- PO ७. कार्यक्रम व्यवस्थापन कौशल्ये विकसित करणे.



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PSO (Programme Specific Outcome)

PSO १. विद्यार्थ्यांची भाषिक संरचना आणि साहित्याभिरुची विकसित होईल.

PSO २. विद्यार्थ्यांना मराठी भाषेतील वाङ्मयीन परंपरा तसेच विविध साहित्यप्रवाहाचे सखोल ज्ञान होईल.

PSO ३. विद्यार्थ्यांच्या भाषिक आणि सर्वांगीण विकासाला चालन मिळेल.

PSO ४. विद्यार्थ्यांमध्ये अंतर्गत मूल्यमापन, विद्यापीठीय आणि स्पर्धा परीक्षेसाठी आवश्यक असलेल्या कौशल्यांचा विकास होईल.

PSO ५. विद्यार्थ्यांमध्ये विविध साहित्यप्रकारात लेखन करण्याचे कौशल्ये व समाजात, व्यवहारात संवाद कौशल्ये यांचे सुयोग्य उपयोजन करता येईल .

PSO ६. विद्यार्थी प्रसारमाध्यमांमध्ये उपलब्ध असलेल्या संधी आत्मसात करण्यासाठी प्रोत्साहित होतील.

PSO ७. कार्यक्रम संयोजनातील सूत्रसंचालन, मनोगत, आभारप्रदर्शन इ. भाषिक कौशल्ये विकसित होतील.



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CO (Course Outcome)

- CO १. विद्यार्थ्यांना मराठी साहित्य आणि भाषेचे विविध प्रवाह, वाङ्मयीन परंपरेचे ज्ञान होईल.
- CO २. विद्यार्थ्यांना समाज आणि संस्कृतीकडे पाहण्याचे वैविध्यपूर्ण व नवे दृष्टीकोन प्राप्त होतील.
- CO ३. विद्यार्थ्यांना मराठी भाषा व साहित्यातील संशोधनाची माहिती असेल.
- CO ४. विद्यार्थी योग्य भाषा वापरण्यास सक्षम असतील.
- CO ५. विद्यार्थी सर्जनशील लेखन करू शकतील.
- CO ६. नेट व सेट परीक्षांसह सर्व स्पर्धा परीक्षांचे प्रशिक्षण विद्यार्थ्यांकडे असणार आहे.
- CO ७. भारताच्या चांगल्या भविष्यासाठी सर्जनशील, संवेदनशील, आदर्श, सुसंस्कृत, सुशिक्षित नागरिक बनविण्यात करेल.



P.P. Swami Vivekanand Sevashram Sanstha, Shirala's

**VISHWASRAO NAIK ARTS, COMMERCE &
BABA NAIK SCIENCE MAHAVIDYALAYA, SHIRALA**

Tal.: Shirala, Dist.: Sangli, Maharashtra - 415408



NAAC GRADE - 'B'

(Affiliated to Shivaji University, Kolhapur.)

EST : JUN-1970

Junior College Code : 15
Junior College No. J-22-09-001
UDISE No.: 27350713220

(JUNIOR/SENIOR)

Principal : Dr. R. B. Bansode
M.A., M.Phil., Ph.D.

☎ (02345) 272107 ✉ vishwasraonaik@rediffmail.com 🌐 www.vnbnmshirala.org

PROGRAMME OUTCOMES (PO'S) AND COURSE OUTCOMES (CO'S) FOR HINDI



NAAC GRADE - 'B'

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Out Ward No. V.N.M. /

/

Date : / / 20

Bachelor of Arts (B.A.)

Department of Hindi

Programme Outcomes (POs)

After completing B. A. degree programme, students will be able to:

- PO 1: Realize and follow eternal human values.
- PO 2: Become a responsible and dutiful citizen.
- PO 3: Acquire scientific temperament and ability to think logically.
- PO 4: Nurture creativity in arts as well as in day-to-day life.
- PO 5: Get well acquainted with the social, economic, political, historical and geographical facts and trends in India as well as in the world.
- PO 6: Get acquainted with and respect the common cultural heritage of pluralism and mutual respect.
- PO 7: Respect core constitutional values like equality, social justice secularism and scientific approach.
- PO 8: Prepare for and qualify all types of competitive examinations after graduation.
- PO 9: Take keen interest in language and literature, both regional and global.
- PO 10: Acquire basic language skills like listening, speaking, reading and writing.
- PO 11: Communicate thoughts and ideas fluently and effectively in formal and informal situations.



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Program Specific Outcomes (PSOs)

B. A. I Year Hindi Optional

साहित्य जगत, हिंदी गद्य साहित्य प्रश्नपत्र 1 और 2

- Co1 : छात्रों को साहित्य की विविध विधाओं का परिचय हुआ।
 CO2 : हिंदी के प्रतिनिधि गद्यकारों एवं कवियों से छात्र प्रभावित हुए।
 CO3 : हिंदी भाषा के श्रवण पठन एवं लेखन कौशल छात्रों में विकसित हुआ।
 CO5 : निबंध, कहानी, एकांकी, रेखाचित्र, रिपोर्टाज, संस्मरण, व्यंग्य आदि विधाओं के आदि विधाओं के माध्यम से छात्रों का भावात्मक विकास हुआ।
 CO6 : नैतिक मूल्य, राष्ट्रीय मूल्य एवं उत्तरदायित्व के प्रति आस्था छात्रों में निर्माण हुई।
 CO7 : राष्ट्र के प्रति प्रेम, राष्ट्रीय ऐक्य स्थापनाएँ सामाजिक प्रतिबद्धता छात्रों में जागृत हुई।
 CO8 : छात्रों की विचार क्षमता तथा कल्पनाशीलता को बढ़ावा मिला।

B. A. II Year Hindi Optional

प्रश्नपत्र – 3 अस्मितामूलक विमर्श और हिंदी गद्य साहित्य

- CO9 : छात्रों को कथा साहित्य का परिचय हुआ।
 CO10 : छात्र कथा साहित्य के स्वरूप तत्व एवं प्रकारों से अवगत हुए।
 CO11 : छात्रों को समीक्षा मानदंड के आधारपर कथासाहित्य का अकलन हुआ।
 CO12 : छात्रों को कथेत्ता साहित्य का समीक्षात्मक परिचय हुआ।
 CO13 : छात्र कथेतर साहित्य के स्वरूप, तत्व एवं प्रकारों से अवगत हुए।
 CO14 : छात्रों को कथा और कथेतर साहित्य की वर्तमान प्रासंगिकता का ज्ञान प्राप्त हुआ।

प्रश्नपत्र 4 हिंदी संत काव्य तथा राष्ट्रीय काव्य धारा

- CO15 : हिंदी साहित्य के प्रति छात्रों की रुचि बढ़ गई।
 CO16 : छात्रों को कथा साहित्य की विविध विधाओं का परिचय हुआ।
 CO17 : मध्यकालीन हिंदी कवियों के परिचय से छात्र प्रभावित हुए।
 CO18 : छात्रों को नैतिक मूल्य, राष्ट्रीय मूल्य एवं उत्तरदायित्व का परिचय हुआ।
 CO19 : छात्र अधुनिक हिंदी कविता में चित्रित विविध वर्ण से अवगत हुए।
 CO20 : हिंदी संत काव्य से छात्रों का परिचय हुआ।

प्रश्नपत्र 5 – रोजगार परक हिंदी

- CO21 : छात्रों में हिंदी में कार्य करने की क्षमता, कल्पना एवं रुचि विकसित हुई
CO22 : छात्रों में रोजगारोन्मुख शिक्षा व कौशल का विकास हुआ।
CO23 : पत्राचार के स्वरूप का परिचय छात्रों को हुआ।
CO24 : छात्रों में हिंदी भाषा के श्रवण, पठण, व लेख कौशल का निर्माण हुआ।
CO25 : छात्रों का व्यवहारिक हिंदी से परिचय हुआ।
CO26 : रोजगारोन्मुख क्षेत्र से छात्रों का परिचय हुआ।

प्रश्नपत्र 6 – अस्मितामूलक विमर्श और हिंदी पद्य साहित्य

- CO27 : छात्र हिंदी कवियों से परिचित हुए।
CO28 : छात्रों में हिंदी भाषा के श्रवण, पठण व लेखन को बढ़ावा मिला।
CO29 : छात्रों में हिंदी भाषा के प्रति रुचि निर्माण हुई।
CO30 : छात्रों को नैतिक मूल्य, राष्ट्रीय मूल्य एवं उत्तरदायित्व के प्रति आस्था निर्माण हुई।
CO31 : साहित्य की विविध पद्य विधाओं को छात्रों को परिचय हुआ।
CO32 : छात्रों को साहित्य की विविध पद्य विधाओं का परिचय हुआ।
CO33 : आधुनिक हिंदी पद्य में चित्रित विविध विमर्शों से छात्र अवगत हुए।

B.A III Year Hindi (Speial)

प्रश्नपत्र VII & XII – विधा विशेष का अध्ययन

पाठ्यपुस्तक 'दिल्ली ऊंचा सुनती है' (नाटक) – कुसुम कुमार, 'अंतिम साक्ष्य (उपन्यास) – चंद्रकांता

- CO34 : नाटककार कुसुम कुमार की बहुमुखी प्रतिभा से तथा उनके साहित्य से छात्र परिचित हुए।
CO35 : नाटककार कुसुम कुमार की विचारधारा से छात्र प्रभावित हुए।
CO36 : नाटककार कुसुम कुमार के निर्धारित ग्रंथ का आलोचनात्मक अध्ययन हुआ।
CO37 : नाटककार के रूप में कुसुम कुमार का साहित्यिक स्थान निश्चित किया।
CO38 : उपन्यासकार चंद्रकांता के बहुमुखी प्रतिभासे छात्र परिचित हुए।
CO39 : चंद्रकांत के विचारों से छात्र प्रभावित हुए।
CO40 : छात्रों ने चंद्रकांता के निर्धारित ग्रंथ का आलोचनात्मक अध्ययन किया।
CO41 : उपन्यास के रूप में चंद्रकांता का साहित्यिक स्थान निर्धारित किया गया।

प्रश्नपत्र VIII & XIII – साहित्यशास्त्र

- CO42 : साहित्य निर्मिति की प्रक्रिया से छात्र ज्ञात हुए।
CO43 : साहित्य के विभिन्न अंगों, भेदों से छात्रों का परिचय हुआ।
CO44 : साहित्य की नवीन विधाओं से छात्र अवगत हुए।
CO45 : समीक्षासिद्धांतों का छात्रों को ज्ञान हुआ।
CO46 : छात्रों को साहित्य के तत्वों की जानकारी हुई।
CO47 : अलंकारों एवं छंदों से छात्रों का परिचय हुआ।

प्रश्नपत्र IX & XIV – हिंदी साहित्य का इतिहास

- CO48 : हिंदी भाषा तथा साहित्य से छात्रों का परिचय हुआ।
CO49 : हिंदी साहित्य की विकास यात्रा से छात्र परिचित हुए।
CO50 : हिंदी साहित्य की विकास यात्रा में विभिन्न विचारधारा एवं प्रवृत्तियों से छात्र परिचित हुए।
CO51 : साहित्य समझने, उसका अस्वादन करने की क्षमता छात्रों में आ गई।
CO52 : साहित्य के संदर्भ में विभिन्न साहित्यिक विधाओं के विकास क्रम की छात्रों को जानकारी हुई।
CO53 : युगीन सामाजिक, राजनीतिक परिस्थितियों का छात्रों को परिचय हुआ।

प्रश्नपत्र X & XV – प्रयोजन मूलक हिंदी

- CO54 : हिंदी में कार्य करने की रुचि छात्रों में विकसित हो गई।
CO55 : रोजगारोन्मुख शिक्षा तथा कौशल का विकास हुआ।
CO56 : पारिभाषिक शब्दावली से छात्र परिचित हुए।
CO57 : सरकारी पत्राचारों के रूपों की जानकारी छात्रों को मिली।
CO58 : जनसंचार एवं इलेक्ट्रॉनिक माध्यमों से छात्र परिचित हुए।
CO59 : अनुवाद स्वरूप, महत्व व उपयोगिता का छात्रों को परिचय हुआ।
CO60 : रोजगारपरक हिंदी की उपयोगिता छात्रों में स्पष्ट हुई।

प्रश्नपत्र XI & XVI – भाषा विज्ञान और हिंदी भाषा

- CO61 : भाषा के विविध रूपों का छात्रों को ज्ञान प्राप्त हो गया।
CO62 : हिंदी भाषा के व्याकरण से छात्र अवगत हुए।
CO63 : छात्रों को भाषा विज्ञान का सामान्य परिचय प्राप्त हुआ।
CO64 : छात्रों को हिंदी भाषा, लिपि के उद्भव और विकास का ज्ञान प्राप्त हुआ।
CO65 : भाषा की शुद्धता के प्रति छात्र जागरूक हुए।
CO66 : मानक हिंदी वर्तनी से छात्र अवगत हुए।
CO67 : भाषा विज्ञान का सामान्य परिचय छात्रों को प्राप्त हुआ।



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PROGRAMME OUTCOMES (PO'S) AND COURSE OUTCOMES (CO'S) FOR COMMERCE



NAAC GRADE - 'B'

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Out Ward No. V.N.M. / /

Date : / / 20

B.Com (Regular)

Program Outcome

PO1. This program could provide Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Warehousing etc., well trained professionals to meet the requirements.

PO2. After completing graduation, students can get skills regarding various aspects like Marketing Manager, Selling Manager, over all Administration abilities of the Company.

PO3. Capability of the students to make decisions at personal & professional level will increase after completion of this course.

PO4. Students can independently start up their own Business.

PO5. Students can get thorough knowledge of finance and commerce.

PO6. The knowledge of different specializations in Accounting, costing, banking and finance with the practical exposure helps the students to stand in organization.



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Program Specific Outcomes

PSO1. The students can get the knowledge, skills and attitudes during the end of the B.com degree course.

PSO2. By goodness of the preparation they can turn into a Manager, Accountant, Management Accountant, cost Accountant, Bank Manager, Auditor, Company Secretary, Teacher, Professor, Stock Agents, Government employments and so on.,

PSO3. Students will prove themselves in different professional exams like C.A., C S, CMA, MPSC, UPSC. As well as other co-occurring.

PSO4. The students will acquire the knowledge, skill in different areas of communication, decision making, innovations and problem solving in day to day business activities.

PSO5. Students will gain thorough systematic and subject skills within various disciplines of finance, auditing and taxation, accounting, management, communication, computer.

PSO6. Students can also get the practical skills to work as accountant, audit assistant, tax consultant, and computer operator. As well as other financial supporting services.

PSO7. Students will learn relevant Advanced accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.

PSO8. Students will be able to do their higher education and can make research in the field of finance and commerce.



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Course Outcomes

B.Com -I

Financial Accounting:

Course Objectives :-

- To enable the students to learn principles and concepts of Accountancy.
- Students are enabled with the Knowledge in the practical applications of accounting. To enable the students to learn the basic concepts of Partnership Accounting, and allied aspects of accounting.
- The student will get thorough knowledge on the accounting practice prevailing in partnership firms and other allied aspects.
- To find out the technical expertise in maintaining the books of accounts.
- To encourage the students about maintaining the books of accounts for further reference.

Principle of Marketing

Course Objectives :-

- This course enables the students, the practical knowledge and the tactics in the marketing.
- To study and critically analyze the basic concepts and trends in Marketing.
- To aware of the recent changes in the field of marketing.
- To make students familiar with computer marketing systems
- To introduce students with skills.
- To develop skill and knowledge among students in applications of internet in education of commerce.

Principle of Management and Application

Course Objectives :-

- To make the students aware about the Business and Business Management.
- To develop entrepreneurial awareness among students.
- To motivate students to make their mind set for thinking entrepreneurship as career.

Banking and Finance

Course Objectives :-

- To familiar the students with the fundamentals of banking and thorough knowledge of banking operations.
- To build up the capability of students for knowing banking concepts and operations.
- To make the students aware of banking business and practices.
- To make understandable to the students regarding the new concepts introduced in the banking system.

Compulsory English

Course Objectives :-

- To offer relevant and practically helpful pieces of prose and poetry to students so that they not only get to know the beauty and communicative power of English but also its practical application.
- To expose students to a variety of topics that dominates the contemporary socio-economic and cultural life.
- To develop oral and written communication skills of the students so that their employability enhances.

- To develop overall linguistic competence and communicative skills of students
- To expose students to a good blend of old and new literary extracts having various themes that are entertaining and informative so that they realize the beauty and communicative power of English
- To make students aware of the cultural values and the major problems in the world today.
- To develop literary sensibilities and communicative abilities among students.

Business Economics (Micro)

Course Objectives :-

- To provide students' knowledge of Micro Economic concepts and inculcate an analytical approach to the subject matter.
- To arouse the students' interest by showing the relevance and use of various economic theories.
- To apply economic reasoning to solve business problems.
- To make familiar the students with the emerging changes in the modern office environment and to develop organizational skills.
- To build up the conceptual, analytical, technical and managerial skills of students in efficient office organization and records management
- Technical skills among the students for designing and developing effective means to manage records, consistency and efficiency of work flow in the administrative section of an organization will be developed.
- To develop employability skills among the students.



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P.P. Swami Vivekanand Sevashram Sanstha, Shirala's
**VISHWASRAO NAIK ARTS, COMMERCE &
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Tal.: Shirala, Dist.: Sangli, Maharashtra - 415408

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(JUNIOR/SENIOR)



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B.com -II

Business Communication

Course Objectives :-

- To make the students aware about the business communication.
- To understand the process and importance of communication.
- To develop awareness regarding new trends in business communication, various media of communication and communication devices.
- To extend business communication skills through the application and exercises

Corporate Accounting

Course Objectives :-

- This course aims to enlighten the students on the accounting procedures followed by the Companies.
- Student's skills about accounting standards will be developed.
- To make aware the students about the valuation of shares.
- To impart knowledge about holding company accounts, amalgamation, absorption and reconstruction of company.

Business Economics (Macro)

Course Objectives :-

- To familiarize the students with the basic concept of Macro Economics and its application.
- To aware students about Gross National Product (GNP), Net National Product (NNP) ,Income at Factor cost or National Income at Factor Prices ,Per Capita Income , Personal Income (PI) ,Disposable Income etc.
- To Study the relationship among broad aggregates.
- To apply economic reasoning to solve the problems of the economy.

Business management

Course Objectives :-

- To understand the concept & functions and importance of management and its application.
- To make the student understand principles, functions and different management theories.

Indian Banking System

Course Objectives :-

- To make the students aware of Indian banking system.
- To enables students to understand the reforms and other developments in the Indian Banking.
- To impart knowledge about functions and role of Reserve Bank of India.

A course in environmental studies

- To furnish awareness about environmental problems among people.
- Impart basic knowledge about the environment and its allied problems.
- Developing an attitude of concern for the environment.
- Acquiring skills to help the concerned individuals in identifying and solving environmental problems.



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B.Com.-III

Business Regulatory Framework

(Mercantile Law)

Course Objectives :-

- The student will well verse in basic provisions regarding legal frame work governing the business world.
- To know the students with the basic concepts, terms & provisions of Mercantile and Business Laws.
- To develop the awareness among the students regarding these laws affecting trade business, and commerce.

Advanced Accounting

Course Objectives :-

- To provide the knowledge of various accounting concepts
- To impart the knowledge about accounting methods, procedures and techniques.
- To acquaint students with practical approach to accounts writing by using software package and by learning various accounts.

Auditing and taxation

Course Objectives :-

- Students will be versed in the fundamental concepts of Auditing and different aspects of tax.
- Students can understand Income Tax system properly, and can get the knowledge of different tax provisions.
- To give knowledge about preparation of Audit report, Submission of Income Tax Return, Advance Tax, and Tax deducted at Source, Tax Collection Authorities under the Income Tax Act, 1961.

MMP

Course Objectives :-

- Enable the students with Financial Markets and its various segments.
- To give the students and understanding of the operations and developments in financial markets in India.
- To acquaint them to gain an insight into the functioning and role of financial institutions in the Indian Economy.



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PROGRAMME OUTCOMES (PO'S) AND COURSE OUTCOMES (CO'S) FOR ZOOLOGY



DEPARTMENT OF ZOOLOGY

Program Outcomes (POs)

PO 1: Students gain knowledge and skills in the fundamental animal sciences.

PO 2: Students understand the complex interactions among various living organisms of different phyla, their distribution, diversity and their relationships with the environment.

PO 3: Students understand the knowledge of internal structures of the cell, its functions and metabolic activities.

PO 4: Students gain knowledge about the complex physiology of animals.

PO 5: Students learn about complex evolutionary processes and animal behaviors.

PO 6: Students are sensitized regarding importance of environmental /biodiversity conservation and processes involved in pollution control.

PO 7: Students are familiarized with small scale entrepreneurship activities based on applied zoology including diverse fields like sericulture, aquaculture, apiculture, animal husbandry, poultry, goatry, etc.

PO 8: Students learn about concepts in genetics and role of genetics in day to day lives.

PO 9: Students imbibe principles and commitment retention towards their and professional ethics, duties and responsibilities.

PO 10: Students develop empathy and love towards animals



DEPARTMENT OF ZOOLOGY

Program Specific Outcomes (PSOs)

PSO 1: To understand the basic concepts in cell biology, genetics, taxonomy, physiology, biochemistry, ecology, evolutionary biology, developmental biology, applied and economic zoology.

PSO 2: To be able to analyze the relationships between animals, plants and microbes.

PSO 3: To perform the experimental procedures as per laboratory standards in the subjects of taxonomy, physiology, ecology, cell biology, genetics, applied zoology, clinical science, toxicology, entomology, nematology, sericulture, biochemistry, fish biology, animal biotechnology, etc.

PSO 4: To imbibe the application of entrepreneurship skills by learning small scale industry activities related to sericulture, apiculture, aquaculture, animal husbandry, poultry, goatry, pearl culture, etc.

PSO 5: To be able to effectively communicate scientific data and cognitive development.

PSO 6: Contribution of zoological knowledge in the building of the nation.

PSO 7: To build research skills and scientific temper in students.



DEPARTMENT OF ZOOLOGY

Course Outcomes (COs)

B.Sc. I Semester I

DSC -15 A (Animal Diversity-I)

CO 1: To study general characters and classification of kingdom Protista with its locomotory organs.

CO 2: To study general characters and classification of phylum Porifera, Cnidaria, Platyhelminthes, Nematelminthes, Annelida, Arthropoda, Mollusca and Echinodermata with different examples.

CO 3: To study canal system in Sycon.

CO 4: To study polymorphism in Hydrazoa.

CO 5: To study life history and parasitic adaptations of *Taenia solium* and *Ascaris lumbricoids*.

CO 6: To study metamerism in Annelida.

CO 7: To study vision in Arthropoda and Metamorphosis in Insects.

CO 8: To study torsions in Gastropods.

CO 9: To study Water Vascular System in Asteroides.



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DEPARTMENT OF ZOOLOGY

Course Outcomes (COs)

B.Sc. I Semester I

DSC -16 A (Cell Biology and Evolutionary Biology)

CO 1: Study of different theories and diversities of cells.

CO 2: Study of detail structure of nucleus.

CO 3: Study of structure and types of chromosomes.

CO 4: Study of ultra-structures and functions of different cell organelles such as plasma membrane, mitochondria, endoplasmic reticulum, golgi complex and lysosomes.

CO 5: Study of different theories regarding history of life.

CO 6: Study of theories of chemical evolution.

CO 7: Study of different evolutionary theories like Lamarckism, Darwinism and Neo-Darwinism.

CO 8: To study direct evidences of evolution with respect to detail study of fossils.

CO 9: To study types of extinction and its role in evolution.



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DEPARTMENT OF ZOOLOGY

Course Outcomes (COs)

B.Sc. I Semester II

DSC -15 B (Animal Diversity and Insect Vectors)

CO 1: To study animal diversity with reference to detail study of rat.

CO 2: To study different insect vectors like mosquito, housefly and rat flea with respect to casual organism, life cycle and symptoms of diseases.

CO 3: To study control measures of different Insect Vectors.



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DEPARTMENT OF ZOOLOGY

Course Outcomes (COs)

B.Sc. I Semester II

DSC -16 B (Genetics)

CO 1: To study basic concepts in genetics.

CO 2: To study Mendelian and Post-Mendelian genetics with different principles.

CO 3: To study linkage, crossing over.

CO 4: To study mutation

CO 5: To study different theories of sex determination.



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DEPARTMENT OF ZOOLOGY

Course Outcomes (COs)

B.Sc. II Semester III (Paper V)

DSC -15 C (Animal Diversity II)

CO 1: To study the animals from protochordates and agnatha.

CO 2: To study the animals from pisces and amphibian.

CO 3: To study the animals from reptiles.

CO 4: To study the animals from aves and mammals.



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DEPARTMENT OF ZOOLOGY

Course Outcomes (COs)

B.Sc. II Semester III (Paper VI)

DSC -16 C (Biochemistry)

CO 1: To study the nucleic acids.

CO 2: To study the carbohydrate metabolism.

CO 3: To study the lipid metabolism.

CO 4: To study the protein metabolism and enzymes.



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DEPARTMENT OF ZOOLOGY

Course Outcomes (COs)

B.Sc. II Semester IV (Paper VII)

DSC -15 D (Reproductive Biology)

CO 1: To study the hormones of pituitary gland.

CO 2: To study the functional anatomy of female reproduction.

CO 3: To study the functional anatomy of male reproduction.

CO 4: To study the reproductive health.



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DEPARTMENT OF ZOOLOGY

Course Outcomes (COs)

B.Sc. II Semester IV (Paper VIII)

DSC -16 D (Applied Zoology)

CO 1: To study the host-parasite relationship.

CO 2: To study the epidemiology of diseases.

CO 3: To study Rickettsia and Spirochaetes.

CO 4: To study the insects of economic importance and poultry farming.



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PROGRAMME OUTCOMES (PO'S) AND COURSE OUTCOMES (CO'S) FOR BOTANY



Programme Outcomes (POs):

(B.Sc I and B.Sc II- Botany)

- PO 1:** To impart knowledge of Plant Science.
- PO 2:** To develop scientific attitude is the major objective to make the students Open-minded, critical, curious.
- PO 3:** To develop skill in practical work, experiments and laboratory materials and equipments alongwith the collection and interpretation of scientific data to contribute the science.
- PO 4:** To understand scientific terms, concepts, facts, phenomenon and their relationships.
- PO 5:** To make the students aware of natural resources and environment.
- PO 6:** To provide practical experience to the students as a part of the course.
- PO 7:** To develop scientific ability to work in the field of research and other fields of their own interest and to make them fit for society.
- PO 8:** To acquire knowledge of plant and related subjects so as to understand natural phenomenon, manipulation of nature and environment in the benefit of human beings.
- PO 9:** To develop ability for the application of the acquired knowledge to improve agriculture and other related fields to make the country self reliant and sufficient.
- PO 10:** To create the interest of the society in the subject and scientific hobbies, exhibitions and other similar activities.



Programme Specific Outcomes (PSOs):

(B.Sc I and B.Sc II- Botany)

In life science, plant science is one of the most important basic and applied subject. Plants synthesized their own food material and provides the food and oxygen to all living organism. Most of the basic requirements fulfilled by the plants. This course has been designed to give the fruitful knowledge and to develop the commercial soft skills in the various aspects of plant science. After successful completion of this program students will be able:

PSO 1: To understanding the classification of all higher and lower plants. Plant diseases and their management.

PSO 2: To understand the basics of genetics and molecular biology.

PSO 3: To understand the structure and function of different cell organelles and the role of cell membrane, plant anatomy, taxonomy and ecology.

PSO 4: To understand the basics of genetics and molecular biology.

PSO 5: To understand the plant ecology, phytogeography, centre of origin of cultivated plants and utilization of plants.

PSO 6: To Understand the skills for the production of Bio fertilizers, mushroom culture techniques, nursery and garden technique.



Course Outcomes (COs):

(B.Sc I - Paper I, II, III & IV)

After successful completion of the course, the students will be able to:

- CO 1:** Recognize the position of plant in phylogenetic level.
- CO 2:** Identify the plants
- CO 3:** Present scientific hypothesis.
- CO 4:** Distinguish the characteristics of fungi, algae, bryophytes, pteridophytes, gymnosperms and angiosperms.
- CO 5:** Explain different parts of the plants and their function.
- CO6:** Explain the skills of bio fertilizer production, mushroom cultivation and different analytical techniques used in the plant science.

(B.Sc II) - Paper V)

After successful completion of the course, the students will be able to:

- CO 7:** Know the scope and importance of the plant systematics.
- CO 8:** Understand plant morphology, nomenclature and classification
- CO 9:** Prepare and demonstrate herbarium and to understand importance of Botanical gardens.
- CO 10:** Analyze the composition of different parts of plant.



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(B.Sc II) - Paper VI)

After successful completion of the course, the students will be able to:

CO 11: Understand the principles of Mendelian inheritance and gene interaction.

CO 12: Differentiate between structural and numerical variations in chromosomes.

CO 13: Analyse and solve genetic problems on linkage and crossing over.

CO 14: Know the composition and significance of nucleic acids.

CO 15: Summarize concept of central dogma and genetic code.

(B.Sc II) - Paper VII)

After successful completion of the course, the students will be able to:

CO 16: Understand core concepts of biotic and abiotic components.

CO 17: Gain and insight in to the diverse ecosystem, related food web and ecological pyramids.

CO 18: Prepare map of Phytogeographical regions of India.

CO 19: Know importance of plants and plant products and their utility.

CO 20: Know the centre of origins of different crop plants.

CO 21: Understand importance and conservation of Germplasm.



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(B.Sc II) - Paper VIII)

After successful completion of the course, the students will be able to:

CO 22: Understand various physiological processes in plants.

CO 23: Understand significance and mechanism of photosynthesis.

CO 24: Know the process of respiration in higher plants.

CO 25: Design outlines of landscaping and home gardening.

CO 26: Propagate plants by seed and vegetative propagation

CO 27: Prepare different types of gardens and to know garden equipments



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PROGRAMME OUTCOMES (PO'S) AND COURSE OUTCOMES (CO'S) FOR MATHEMATICS



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Department of Mathematics

Programme Outcomes

Sr No	Programme Outcome
	After completion of program students will able to,
PO1	Apply critical thinking and communication skills to solve applied problems.
PO2	Use knowledge skills necessary for immediate employment or acceptance into a graduate program.
PO3	Maintain a core of mathematical and technical knowledge that is adoptable to changing technologies and provides solid foundation for future learning
PO4	Apply mathematical concepts and principles to perform computations.
PO5	Enhancing students overall development and to equip them with mathematical modelling abilities, problem solving skills, creative talent and power of Communication necessary for various kinds of employments.
PO6	Communicate mathematics accurately, precisely and effective.



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Department of Mathematics

Programme Specific Outcomes

Sr No	Programme Specific Outcomes
PSO1	Acquire good knowledge and understanding in advanced areas of mathematics.
PSO2	Learn to find nth roots of complex numbers.
PSO3	Learn to find limits and continuity of real valued functions.
PSO4	Understand the concepts of matrices, differential equations etc.
PSO5	Learn Mean Value Theorem.
PSO6	Understand Leibnitz theorem and its applications.
PSO7	Acquire good knowledge and understanding in advanced areas of mathematics.



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Department of Mathematics Course Outcomes

B.Sc. Part-I Mathematics: Semester-I, Paper I, Calculus

Sr No	Course Outcome
	The student who successfully completes this course will able to --
CO1	Evaluate the limit and examine the continuity of a function at a point.
CO2	Understand the concept of mean value theorem for differentiable functions.
CO3	Apply Leibnitz theorem to obtain higher derivatives of product of two differentiable functions

B.Sc. Part-I Mathematics: Semester-I, Paper II, Differential Equations

Sr No	Course Outcome
	The student who successfully completes this course will able to --
CO1	Understand the types of differential equations.
CO2	Solve different types of ordinary differential equations.
CO3	Understand the applications of differential equations.



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**VISHWASRAO NAIK ARTS, COMMERCE &
BABA NAIK SCIENCE MAHAVIDYALAYA, SHIRALA**
Tal.: Shirala, Dist.: Sangli, Maharashtra - 415408
(Affiliated to Shivaji University, Kolhapur.)
(JUNIOR/SENIOR)



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Department of Mathematics Course Outcomes

B.Sc. Part-I Mathematics: Semester-II, Paper III, Multivariable Calculus

Sr No	Course Outcome
	The student who successfully completes this course will able to --
CO1	Learn conceptual variations while advancing from one variable to several variables in calculus.
CO2	Set up and solve optimization problems involving several variables.
CO3	Learn the concept of Jacobian of a transformation.

B.Sc. Part-I Mathematics: Semester-II, Paper IV, Basic Algebra

Sr No	Course Outcome
	The student who successfully completes this course will able to --
CO1	Use fundamental concepts in Mathematics like sets, relations and functions.
CO2	Use fundamental concepts in number theory.
CO3	Solve examples on congruence.
CO4	Understand various properties of hyperbolic functions.



Department of Mathematics Course Outcomes

B.Sc. Part-II Mathematics: Semester-III, Paper V, Elements of Differential Equations

Sr No	Course Outcome
	The Student who successfully completes this course will able to --
CO1	Identify types of higher order ordinary differential equations
CO2	Solve different types of higher order ordinary differential equations
CO3	Understand geometrical interpretation of simultaneous and total differential equations

B.Sc. Part-II Mathematics: Semester-III, Paper VI, Numerical Methods

Sr No	Course Outcome
	The student who successfully completes this course will able to --
CO1	Find numerical solutions of algebraic, transcendental and system of linear equations
CO2	Learn about various interpolating methods to find numerical solutions
CO3	Find numerical solutions of integration and ODE by using various methods
CO4	Apply various numerical methods in real life problems



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Department of Mathematics

Course Outcomes

B.Sc. Part-II Mathematics: Semester-IV, Paper VII, Vector Calculus

Sr No	Course Outcome
	The student who successfully completes this course will able to --
CO1	Understand and evaluate the concept of gradient, divergence and curl of point functions in terms of Cartesian co-ordinate system.
CO2	Understand and evaluate different types of line, surface & volume integrals and the two integral transformations theorems of Gauss and Stokes.

B.Sc. Part-II Mathematics: Semester-IV, Paper VIII, Integral Calculus

Sr No	Course Outcome
	The student who successfully completes this course will able to --
CO1	Understand special functions
CO2	Understand types of multiple integrals
CO3	Apply special functions in applications
CO4	Apply multiple integrals in real life problems



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PROGRAMME OUTCOMES (PO'S) AND COURSE OUTCOMES (CO'S) FOR PHYSICS



DEPARTMENT OF PHYSICS

• PO, PSO, CO

PROGRAM OUTCOMES (PO)

PO1	Critical Thinking	Take informed actions after identifying the assumptions that frame our thinking & action, & looking at your ideas & decisions from different perspectives.
PO2	Problem Solving	Understand & solve problems of relevance to society to meet the specified needs using the knowledge, skills & attitudes acquired from humanities/ sciences/ mathematics/ social science.
PO3	Computational Thinking	Understand data-based reasoning through translation of data into abstract concepts using computing technology-based tools.
PO4	Effective Communication	Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
PO5	Environment & Sustainability	Understand the issues of environmental contexts and sustainable development.



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B.SC. PHYSICS – PROGRAM SPECIFIC OUTCOMES (PSO)

PSO 1	Understand basic mechanics and properties of matter.
PSO 2	Illustrate the principles of electricity, magnetism, thermodynamics & optics.
PSO 3	Identify, formulate and analyze complex problems using basic principles of mathematics, physics and statistics.
PSO 4	Design, construct and analyze basic electronic and digital circuits.
PSO 5	Develop effective communication skills.



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COURSE OUTCOMES (CO)

B.SC. PHYSICS

PART-I (SEM-I)

NAME OF PAPER	COURSE CODE	PAPER TITLE	CO	COURSE OUTCOME
I	DSC-A1	Mechanics - I	1	Students are able to learn vector algebra, scalar and vector products, derivative of a vector and vector problem.
			2	Students learn to solve first order and second order homogeneous differential equations with constant coefficients
			3	Students learn Frames of reference, Newton's Laws of motion, Dynamics of a system of particles, Centre of Mass.
			4	Students learn Conservation of momentum. Work and energy. Conservation of energy. Motion of rockets and related problems



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			5	Students learn Angular velocity and angular momentum. Torque & Conservation of angular momentum.	
			6	The differential equations and its applications in physical problems	
			7	Students learn work energy theorem and different conservation laws and rocket motion	
	II	DSC-A2	Mechanics-II	1	Students learn Newton's Law of Gravitation. Motion of a particle in a central force field. Kepler's Laws. Satellite in circular orbit and its applications
				2	Students learn Simple harmonic motion. Differential equation of SHM and its solutions
				3	Students learn Hooke's law, Poisson's Ratio, Rigidity modulus and moment of inertia
				4	Students learn Gravitational law and its application of



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				Kepler laws to planetary system.
			5	The application of simple harmonic motion and its related problems are learnt by students

B.SC PHYSICS PART-I (SEM-II)

NAME OF PAPER	CORUSE CODE	PAPER TITLE	CO	COURCE OUTCOME
III	DSC-B1	Electricity & Magnetism-I	1	Students learn Vector algebra, line, surface and volume vector integration and their applications.
			2	Students learn electric field, potential and Gauss's law for different conducting surface.
			3	They learn properties of conductors and its applications.
			4	They learn dielectrics and their behaviors and applications.
			5	They learn divergence and Stokes theorem and their application.



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IV	DSC-B2	Electricity & Magnetism - II	1	Students learn Biot Savart law and its application for different problems to find magnetic fields.
			2	They learn different properties of magnetic materials like dia para and ferro magnetic materials.
			3	Students learn Maxwell's equations and electromagnetic wave and its propagation through space.
			4	The knowledge of Maxwell's equation gives an idea to students how electromagnetic wave propagates in space and development for future communication systems.

BSC PHYSICS PART-II (SEM-III)

NAME OF PAPER	COURSE CODE	PAPER TITLE	CO	COURSE OUTCOME
			1	Students study the Zeroth, First law of thermodynamics, concept of work and heat developed and



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V	DSC-C1	Thermal Physics & Statistical Mechanics - I		able to solve the problems following first law.
			2	Students study second law of thermodynamics, reversible and irreversible process with examples.
			3	Students study Carnot cycle, Carnot heat engine and its efficiency, refrigerator and its performance
			4	Students study entropy and entropy principle and its applications in various physical problems
VI	DSC- C2	Waves & Optics - I	1	Students learn linear superposition two simple harmonic oscillations and their behavior and acquire knowledge of Lissajous figures.
			2	Students learn transverse vibration of strings, propagation of travelling wave and behavior of standing wave in strings. They learn normal modes and of a string vibration, group and phase velocity.
			3	Students learn surface tension and properties of liquid surface.



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			4	They learn fluid dynamics, viscosity and production of low pressure.
			5	They acquire knowledge of reverberation and building acoustics

BSC PHYSICS PART-II (SEM-IV)

NAME OF PAPER	CORUSE CODE	PAPER TITLE	CO	COURCE OUTCOME
VII	DSC-D1	Thermal Physics & Statistical Mechanics - II	1	Students study thermodynamic potentials, enthalpy, Helmholtz free energy, Gibb's free energy and phase transitions relating to physical systems.
			2	Students study Maxwell relations and its applications, adiabatic demagnetization and low temperature physics.
			3	Students study Maxwell's law of distribution of velocities, mean free path, transport phenomena and learn to solve the problems.



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			4	Students learn Blackbody radiation, Spectral distribution and Planck law, Wien displacement law and their applications.
VIII	DSC-D2	Waves & Optics - II	1	Students Fraunhofer and Fresnel's diffraction , zone plate and diffraction gratings and its applications to study diffraction
			2	Students learn polarization and study different kind of polarization and their applications in Polaroid's.
			3	Students Michelson and Fabry Perrot interferometers and their applications



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PROGRAMME OUTCOMES (PO'S) AND COURSE OUTCOMES (CO'S) FOR POLITICAL SCIENCE



NAAC GRADE - 'B'
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Department of Political Science

Programme Outcome

After successfully completing B.A. Political Science Programme students will have

PO 1	In-depth knowledge of Indian Political system, Political thinkers, administrative system.
PO 2	Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
PO 3	Skills of working collaboratively in teams and plan as well as manage their workload
PO 4	Awareness of personal strengths and weaknesses. Will have self-reflection and discipline.
PO 5	Elicit views of others, mediate disagreements and help reach conclusions in-group settings.
PO 6	Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering
PO 7	Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
PO 8	Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological change.

Programme Specific Outcomes
After completing B. A. Political Science students will have

PSO 1	Ability to discuss about Indian Constitution and Political process.
PSO 2	Ability to discuss Political thinking in western world.
PSO 3	Ability to describe Administrative Process and thinking in western thinking, as well as Indian context
PSO 4	Capacity to analyses Political Theory and its contemporary impact on civilization

Department of Political Science

Course Outcomes
After successfully completing this course, students will be able to

B A -I Introduction to Political Science & Indian Constitution	CO 1 Understanding the meaning and importance of Political Science. CO 2 Understanding the sub-disciplines of Political Science. CO 3 Explaining Democracy and State. CO 4 Understanding key concepts of political science. CO 5 Understanding the making of Indian constitution. CO 6 Understanding the philosophy of Indian constitution. CO 7 Understanding critically analyzing legislature, executive and judiciary system of India
B A -II Indian Political Thought	CO 1 Analyzing the selected thought of Kautilya. CO 2 Analyzing the selected thought of Mahatma Phule. CO 3 Analyzing the selected thought of Justice M. G. Ranade. CO 4 Analyzing the selected thought of B.G. Tilak. CO 5 Analyzing the selected thought of M. K. Gandhi. CO 6 Analyzing the selected thought of Jawaharlal Nehru. CO 7 Analyzing the selected thought of Justice Dr. B .R. Ambedkar. CO 8 Analyzing the selected thought of M.N. Roy
B A -II Political Process in India & Local Self Govt. in Maharashtra	CO 1 Understanding historical background of local self-government CO 2 Examining the Institutions of Rural and Urban local self-government. CO 3 Discussing the constitutional amendments and challenges before local self-government. CO 4 Examining the Institutions of Rural and Urban local self-government and discussing the constitutional amendments and challenges before local self-government. CO 5 Describing and Analyzing political and social movements in Maharashtra. CO 6 Describing and Analyzing Neo movements in Maharashtra.



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PROGRAMME OUTCOMES (PO'S) AND COURSE OUTCOMES (CO'S) FOR GEOGRAPHY



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PROGRAM OUTCOMES

By the end of the program the students will be able to:

P01: Relating to Knowledge

- 1.1 Provide explanation of definitions, relevant terms and concept of geography.
- 1.2 Provide better explanation about relevant principles, theories and models in geography.
- 1.3 Provide idea about detail knowledge regarding man and environmental process.

P02: Understanding and application

- 2.1 Know the importance of spatio-temporal scale.
- 2.2 Know the relation or complex nature between physical and human environments.
- 2.3 Identify the importance of places, environment and people.
- 2.4 Understand how processes bring changes in systems and its distribution.

P03: Students Skills

- 3.1 Collection, representation and Interpretation of geographical data and sources.
- 3.2 Presentation of geographical evidence and ideas with identifying geographical trends and patterns.
- 3.3 Application of the cartographical techniques to support the inferences of geographical aspects.
- 3.4 Make obvious skill of analysis of geographical information.



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PO4: Students Evaluation

- 4.1 Critically evaluate the basics of geography.
- 4.2 Assess the effects of geographical processes and its impact on physical and human environments.
- 4.3 Assess how the viewpoints of different groups of people, potential conflicts of interest and other factors interact in the management of physical and human aspects.
- 4.4 Evaluate the relative success or failure of initiatives.

PROGRAMME SPECIFIC OUTCOME (PSO)

B. A. Part-I

- 1) The Students are known the branches of Geography and latest concepts in Physical Geography Specifically in Atmosphere, Lithosphere, Fluvial Cycle and Hydrosphere.
- 2) The students are understood the Human races, Population growth, Characteristics of Population and Settlements.

B. A. Part-II

- 1) Understand Knowledge in the field of Geography.
- 2) Understand Geographical ideas and thought.
- 3) Develop the advanced cartographic and surveying technological approach.
- 4) Understand the creative research in GIS and Remote Sensing.
- 5) Develop the skill of the students in instrumental survey.
- 6) Overall personality development of the learners.



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COURSE OUTCOMES

- 1) Students will be able to understand the basic concepts in Physical Geography.
- 2) Students understand basic terms used to describe physical processes and landscape forms.
- 3) Students understand the atmosphere.
- 4) Students understand the concept of maps and globe.
- 5) Students will be able to understand the basic concepts in Human Geography.
- 6) Students understand basic terms used to describe population, settlements and agriculture.
- 7) Students understand the concept of Google Earth and Google Map.

B. A. Part – I Year

DSE Paper No. I Subject - Physical Geography

This paper intends to acquaint the students with various dimensions of, as also the challenges, confronting the physical geography. The Geography students of B. A. Part-I can better understand all latest concepts in Physical Geography and Human Geography in brief but in adequate manner.

The objective of this course is to introduce the latest concepts in Physical Geography and Human Geography, Specifically in Atmosphere, Lithosphere, Fluvial Cycle, Hydrosphere, Human races, Population growth, Characteristics of Population and Settlements.



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DSE Paper No. II Subject - Human Geography

This paper intends to acquaint the students with various dimensions of, as also the challenges, confronting the Indian economy. It endeavours to provide useful insights to the students about the present economic standing and composition of the Indian economy, the major sectors and their relative importance in the Indian economy and the major challenges faced by it.

B. A. Part - II Year

Paper No. III - SOIL GEOGRAPHY

Students should know soil geography which is the fundamental branch of Physical Geography. To familiarize the students with the basics and fundamental concepts of soil geography. With this study, students understand soil is key resource for the development of any country. Students are aware about process of soil formation and development as well as soil properties. Students should know classification, characteristics and distribution of soils. Students should know the concepts related to soil degradation and erosion, causes and controlling factors of soil erosion, conservation of soils. Students should know the concept, need and methods soil of management.

DSC Paper No. IV - RESOURCE GEOGRAPHY

- To understand the concept and classification of Resources.
 - To examine the major resources (water, forest, energy and human) with their distribution, utilization and problems.
 - To study the sustainable resource development.
- The course also aims to familiarize the students with cartographic techniques.



P.P. Swami Vivekanand Sevashram Sanstha, Shirala's
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NAAC GRADE - 'B'

Junior College Code : 15
Junior College No. J-22-09-001
UDISE No.: 27350713220

(Affiliated to Shivaji University, Kolhapur.)

(JUNIOR/SENIOR)

EST : JUN-1970

Principal : **Dr. R. B. Bansode**
M.A., M.Phil., Ph.D.

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Out Ward No. V.N.M. /

/

Date : / / 20

DSC Paper -V – OCEANOGRAPHY

Students should know oceanography is the fundamental branch of Physical Geography.

- To familiarize the students with the basic and fundamental concepts of oceanography with this study, students understand marine is key resource for the development of any country.
 - Students should know physical and chemical properties of oceans.
- Students should know types of oceanic currents and currents of Atlantic, Pacific and Indian oceans.
- Students should know hypsographic curve, wind rose, Isohalines and isotherms.

DSC Paper No. VI - Agricultural Geography

- To understand the concept and development of Agriculture.
- To examine the role of agricultural determinants towards the changing cropping pattern.
- To study the Green Revolution.
- The course also aims to familiarize the students with the Agricultural concepts and modern technologies used in Agriculture.



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Science Technology and Development

B. A. Part – I Year

PROGRAM OUTCOMES

- 1) To study the fundamental concepts of science, technology and development.
- 2) To study the contribution of eminent scientist in the development of science and technology.
- 3) To study non-conventional power resources of India.
- 4) To study impact of science and technology on human health.
- 5) To study various types of disasters and its management.
- 6) To study means of communication and information technology.
- 7) To study science technology in space and ocean research.
- 8) To study space technology in India's defence and agriculture.

COURSE OUTCOMES

- 1) Student should be able to understand in-depth about the concepts of science, technology and development.
- 2) Students should be able to understand contribution of eminent scientists in the development of science and technology.
- 3) Students should be able to study non-conventional power resources in the country.
- 4) Students should understand impact of science and technology on human health.
- 5) Students should understand types of disasters and its management.
- 6) Students should understand means of communication and information technology.
- 7) Students should be able to understand science technology in space and ocean research.
- 8) Students should understand technology in India's defence and agriculture.