

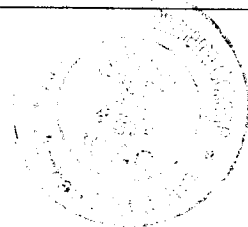
MatsyodariShikshanSanstha's
Arts, Science & Commerce College, Ambad,DistJalna

Annual Teaching Plan (Year: 2021-22)

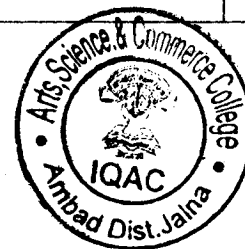
Name of Teacher: Mr. M.B Kharat

Department of Microbiology

Month	Class: FY	Class: SY	Class: TY
	Paper No: Paper : II (TH)	Paper No: VII (TH)	Paper No: XVI (TH)
	Semester: I	Semester: III	Semester: V
Aug-2022	<p style="text-align: center;">II. Microbiological Tech and General microbiology</p> <p>Credit – I Stains and dyes. i) Definition : stain, dye, chromogen, chromophore, auxochrome, acidic and basic stains, simple and differential staining. (Gram's and Acid fast staining) , natural stains, mordant, decolourizer, counter stains. ii) Physicochemical basis of staining. iii) Fixatives and fixation of smears. iv) Staining of Fungi. Cultivation of microorganisms. i) Properties of a good culture medium. ii) Definition, concept, use and types of different culture media . Synthetic, non synthetic, natural, selective, differential, enriched , enrichment, assay, minimal, maintenance, and transport media. iv) Role of Buffers in culture media. v) Media used for cultivation of bacteria , fungi, actinomycetes, yeasts, algae and photosynthetic bacteria.</p>	<p style="text-align: center;">VII.Environmental Microbiology</p> <p>Credit 1 :Microbiology of air : (15) Composition of air. Number and kinds of microorganisms in air (indoor, outdoor) Distribution and sources of air borne microorganisms. Air as a carrier of microorganisms. Droplet, droplet nuclei, Dispersal of Microorganisms in air. Techniques for microbiological analysis of air. Significance of air flora in human health, hospitals , industries. Air borne diseases - list of diseases caused by bacteria, fungi, viruses. Air pollution. Air sanitation – dust control, UV radiation, bactericidal vapors, filtration, laminar air flow system (HEPA filters)</p>	<p style="text-align: center;">XVI Microbial Metabolism</p> <p>Unit: 1(18)• Enzymes : Definition, properties, specificity, active site, activation of enzymes, mechanism of action of enzymes (lock and key , induced fit, ping-pong) • Nomenclature and classification of enzymes • Factors affecting catalytic activity of enzymes (pH, temp.,enzyme conc., substrate conc., metal ions, time) • Michaelis_Menten equation : derivation and significance • Types of enzymes :extracellular, intracellular, constitutive and inducible. • Enzyme inhibition : Irreversible ,reversible (competitive, uncompetitive , incompetitive) and metabolic antagonism, feedback inhibition. • Elementary knowledge and uses of isoenzymes. • Immobilized enzymes and allosteric enzymes. • Commercial uses of enzymes (any five) – (food, leather, textile, environment, pharmaceuticals and clinical) • Types of co-enzymes (NAD, FAD, Lipoic acid, VitB12, Thiamine pyrophosphate) and reactions catalysed (atleast two</p>



<p>Sep-2022</p>	<p>Credit – II Cultivation of anaerobes i) Principle and examples. ii) Methods (at least 2) Pure culture techniques i) Development of pure culture ii) Sterilization, aseptic techniques, streak, pour and spread plate methods, single cell isolation. iii) Significance Control of Microbial Growth i) Pattern of Microbial death – concepts. ii) Sterilization by physical methods - High temperature, canning and pasteurization. - Low temperature. - Non ionizing and ionizing radiations. - Bacteriological filters. iii) Sterilization by chemical means; Disinfectants and antiseptics: Effectiveness, mode of action & application. Phenolics, alcohols, halogens, heavy metals, quaternary ammonium compounds, aldehydes. iv) Sterilization using gases sulfur dioxide, ethylene oxide, Beta propiolactone. v) Control of microorganisms using sugars, nitrates, organic acids .</p>	<p>Credit 2. Microbiology of water and Waste water management : (15) Water zonation – upwelling, eutrophication Microbial communities in natural water Determining sanitary quality of water : bacteriological evidence of faecal pollution, indicators of faecal pollution. Significance of index organisms. Faecal and non faecal coliforms (IMViC& elevated temperature tests.). Bacteriological examination of water. Presumptive, confirmed, completed test, SPC, MPN, Membrane filter technique. Water pollution: causes hazards& control of human water borne diseases (list). Water purification methods. Disinfection of potable water supplies.</p>	<p>Unit :2. (15) Definitions: Metabolism, anabolism , catabolism, free energy. • Bioenergetics: chemical links between catabolism and biosynthesis,energy coupling through ATP and through pyridine nucleotides, Central role of ATP-ADP system. • Modes of energy yielding metabolism : Definition and features of fermentation, respiration and photosynthesis. • Fermentation of carbohydrates: EMP, HMP, ED, Phospoketolase pathway (pentose hexose). Alcoholic, homolactic, mixed acid, butanediol, butyric, acetone-butanol fermentations. S• Aerobic respirations: RETC : location functions, components, redox carriers, oxidative phosphorylation artificial electron acceptors, bacterial cytochrome systems • TCA cycle, glyoxylate cycle, anaplerotic sequences, regulation of TCA</p>
<p>Oct-2022</p>	<p>Credit - III Structural Organization of microorganisms. A] Fundamental categories of microorganisms. i) Procaryotic & Eucaryotic cell concepts and differential account</p>	<p>Credit 3. (15) Microbiology of Sewage : Definition of sewage, chemical composition. Microbiology of sewage treatment.: septic tank, evapotranspiration, Imhoff's tank</p>	<p>Unit : 3 (15) • Catabolism of saturated (16 carbon) and unsaturated fatty acids (16 carbon) by β oxidation • Degradation of proteins and amino acids : proteolysis, putrefaction. • Transformation of aminoacids : oxidation, reduction, decarboxylation, deamination . (one example of each).</p>



Nov -2022

BJ Role of microorganisms:

1.1 In agriculture : As biofertilizers, bioinsecticides, in soil improvement (texture , water holding capacity) as geochemical agents, microbe plant interactions (phyllosphere, rhizosphere, mycorrhizal and nodule formation). Plant diseases : list of common plant diseases with their causative agents.

1.2 In human and animal health : list of common bacterial, rickettsial , fungal and viral diseases.(with causative agents) in human beings, role of normal flora of human body, antibiotics, vaccines and antisera.

1.3 In industries : list of microbial products (and producers) produced on industrial scale, role of contaminants.

1.4 In food processing : list of common fermented food & milk products with their representative organisms. Food spoilage, list of organisms causing changes in texture, colour, aroma, taste & nutritional value of the food products. List of food poisoning & food infection causing microorganisms.

Municipal sewage treatment process : Primary, Secondary, (aerobic and anaerobic process), chemical treatment : chlorination.

Disposal of treated sewage. (sludge as fertilizer ; irrigation and dilution)

• Nucleic acid catabolism: DNA, RNA depolymerization, degradation of nitrogenous bases

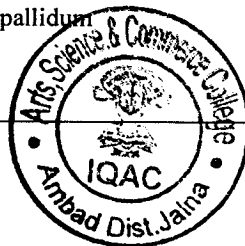
(mention end products without pathway)

- Biosynthesis of nucleotides: Purine and pyrimidine nucleotides, conversion of ribonucleotides to deoxyribonucleotides.
- Carbohydrate synthesis : peptidoglycan

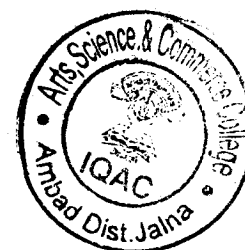


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Arts, Science & Commerce College, Ambad Dist. Jalna
Annual Teaching Plan (Year: 2021-22)

Month	Class: FY	Class: SY	Class: TY
	Paper No: V	Paper No: XII	Paper No: XX
	Semester: II	Semester: IV	Semester: VI
Dec- 2022	V:Basic Biochemistry Credit – 1 Carbohydrates i) Definition and classification. ii) Properties –optical and chemical. iii) Structure of glucose: ring structure, Haworth & fisher's projection, pyranoses , furanoses, isomers, mutarotation. iv) Triose, pentose, hexose, heptoses - examples & structures. v) Derived monosaccharides: glycosides, furano acids, sugar phosphates, uronic acids, sugar alcohol. vi) Disaccharides , glycoside linkage, lactose, maltose, sucrose. vii) Oligosaccharides – Trisaccharides, structure of raffinose. viii) Polysaccharides – Homo and heteropoly saccharides ,structures starch, cellulose, mucopolysacchrides. ix) Biological significance	XII Clinical Microbiology Credit 1. Human Diseases (18) Classification, habitat, morphology, staining reactions, cultural characters, biochemical characters, antigenic structure, pathogenesis. Laboratory diagnosis, epidemiology, prophylaxis, chemotherapy w.r.t. i) Staphylococcus aureus ii) Pneumococcus iii) Mycobacterium tuberculosis	XX Industrial Microbiology Unit :1. •Introduction to industrial microbiology ,historical event (any ten). Lay out of fermentation industry: Different units and department and function (stock, production and fermentation. Q.C and A.C & R&D, Packaging importance of sterility maintenance and checking •I.P and W.H.O standards of sterility • Design of fermentor, Types (Single ,multiple) •Scale up fermentation
Jan-2023	Unit 2. Lipids: i) Classification simple compounds. ii) Chemistry of fatty acids, unsaturated and saturated fatty acids, triglycerides, saponification alkyl ether phosphoglycerides , sterols, cholesterol, protaglandins, glycol lipids. iii) Function of lipids.	Credit 2 Study of human diseases caused by enteric bacteria and spirochetes Classification,habitat, morphology, staining reaction, cultural character, biochemical character, antigenic structure, pathogenesis, Laboratory, diagnosis, epidemiology, prophylaxis, chemotherapy w.r.t. i) Salmonella typhi ii) Vibrio cholerae iii) Treponema pallidum	Unit II •:Primary, secondary Screening methods •Preservation of industrially important Microbes (serial subculture, Overlaying mineral oil, soil stocks, lyophilisation, liquid nitrogen preservation. •Strain improvement methods for increase in yield product.(any one). •Preservation methods (lyophilization, freezing, mineral oil, soil stocks) • Development of Inoculum (Steps) Development of fermentation medium (Raw material, nutrient, media formulation, pretreatment , sterilization, buffers, antifoam agent, cell lysates,precursors.)



Feb-2023	<p>Unit 3. Proteins :</p> <p>i) Classification based on properties of solubility & heat. coagulability. Fibrous, globular proteins and functions.</p> <p>ii) Protein structures; conformation & configuration ,primary structure determination, secondary structure $\square\square$-helix & $\square\square$-pleated sheet, tertiary & quaternary structure.</p> <p>iii) Classification of amino acids : based on acid – base properties.</p> <p>iv) Properties of amino acids – solubility, ampholyte, Zwitterions isoelectric pH .</p> <p>v) Peptide bonds – Concepts of biological peptide bond formation, types.</p> <p>vi) Enzymes – Concepts, definition, nature , active site, properties, physico-chemical factors contributing to catalytic efficiency of enzymes</p>	<p>Credit 3 Viruses</p> <p>i) HIV(Morphology types Life Cycle pathogenesis, Laboratory, diagnosis, epidemiology, prophylaxis, treatment.)</p> <p>ii) Hepatitis virus (Morphology types Life Cycle pathogenesis, Laboratory, diagnosis, epidemiology, prophylaxis, treatment.</p> <p>iii) Oncogenic viruses. (Morphology types Life Cycle pathogenesis, Laboratory, diagnosis, epidemiology, prophylaxis, treatment. .)</p>	<p>Unit III</p> <ul style="list-style-type: none"> • Industrial fermentation •Antibiotics-Penicillin •Vitamin B12 •L-Lysine (Direct Method)
Mar-2023	<p>Unit 4. Nucleic acids :</p> <p>i) Structure of nitrogen bases & base pairing.</p> <p>ii) Structure of nucleosides & nucleotides, ribose, deoxyribose sugars.</p> <p>iii) DNA: properties, forms , structure, function as genetic material. Types of DNA</p> <p>iv) RNA : Structure, function, types (r-RNA, m-RNA, t-RNA)</p> <p>v) Comparative account of DNA & RNA. PH & buffers. pH titration curve, PK value.</p>	<p>Credit 4.</p> <p>(a) Protozoa (Morphology of causative agent ,clinical signs and symptoms lab diagnosis ,prophylaxis/prevention and chemotherapy)</p> <p>(b) Fungi <i>Candida albicans</i> (Morphology of causative agent ,clinical signs and symptoms lab diagnosis ,prophylaxis/prevention and chemotherapy)</p> <p>Typhus fever.</p> <p>(c)Morphology of causative agent ,clinical signs and symptoms lab diagnosis ,prophylaxis/prevention and chemotherapy</p>	<p>Unit IV</p> <ul style="list-style-type: none"> •Microbial Production •Ethyl Alcohol •Citric Acid •Amylase Enzyme (Fungal) •Baker’s Yeast •Biofertilizers (Azo-Rhizo.PSB) and Biopesticide production



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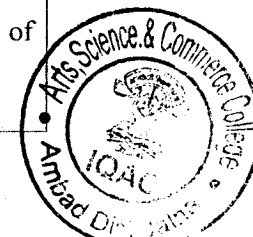
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Annual Teaching Plan (Year: 2021-22)

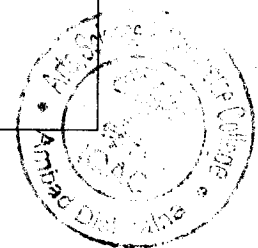
Name of Teacher: Mr. A.S. Pawar

Department of Microbiology

Month	Class: FY	Class: SY	Class: TY
	Paper No: Paper : I (TH)	Paper No: VII (TH)	Paper No: XV (TH)
	Semester: I	Semester: III	Semester: V
Aug-2022	<p>Fundamentals of Microbiology Credit - 1 1 Scope & relevance of Microbiology</p> <p>i) Definition & concepts ii) Types of microorganism iii) Distribution of microorganisms in nature</p> <p>2. Development of Microbiology as a Scientific Discipline</p> <p>1.1 History</p> <p>i) Early observation of microorganisms ii) Spontaneous generation conflict: Contribution of scientists iii) Recognition of the microbial role in diseases. Koch's postulates iv) Recognition of microbial role in fermentations. v) Discovery of microbial effects on organic and inorganic matter. vi) Pure culture concept. vii) Aseptic surgery</p>	<p>VIII. Immunology Credit 1.</p> <p>Host parasite relationship. (15) Normal flora of human body. Defensive mechanism of the host Non specific factors : physiological barriers, natural cellular & humoral factors.</p> <p>Infection: Definitions:(primary infection, secondary infection, cross infection) Sources of infection. Modes of transmission of infectious diseases. Process of infection : entry and spread of infection in host body Determining factors in infection Aggressive factors and mechanisms.</p>	<p>XV Microbial Genetics Unit -1:- (15)</p> <ul style="list-style-type: none"> • DNA/RNA as genetic material, • Molecular properties of DNA – DNA melting, breathing, bending, flexibility, Novel structure of DNA, Linking number, role of major & minor grooves in protein binding. • History of molecular biology and genetic engineering • DNA as genetic material- experimental proof- Griffith's experiment Hershey_Chase experiment • RNA as genetic material – experimental proof • DNA replication- models of replication, experimental evidence for semiconservative replication, enzymology of replication, mechanism of DNA replication • Post replication modifications (methylation); role of restriction endonuclease, hsd, dam, dem system of methylation
Sep-2022	<p>Credit – 2 General characteristics of microorganisms.</p> <p>2.1 General principles (Bacteria)</p> <p>i) Taxonomic rank ii) Classification system iii) Numerical taxonomy iv) Major characteristics used in taxonomy. Morphological, Physiological, Immunological, Metabolic, Etiological.</p> <p>Compositions of proteins, composition of nucleic acids, hybridization, nucleic acid sequencing, identification of organisms based on 16srRNA sequencing, 16S rDNA</p>	<p>Credit 2.</p> <p>Immunity : (15) Definition and classification Innate / Acquired , Active/Passive, Cellular/Humoral , specific / non specific humoral factors of immunity : complement, interferon. General methods of prophylaxis. Toxoid & immune sera, Principle involved in preparation use of adjuvants. Vaccines : types , administration of vaccines, Immunization schedule. Antigen: Definition, determination of antigenicity , size, chemical nature, susceptibility to tissue enzymes, foreignness, specificity .</p>	<p>Unit :2.</p> <ul style="list-style-type: none"> • Salient features of Genetic code • Transcription-structure of RNA polymerase, mechanism of transcription, post transcriptional modification. • Translation- activation of amino acids, charging of t- RNA, Ribosomes, m-RNA, t-RNA <p>a) initiation b) elongation c) termination</p> <ul style="list-style-type: none"> • Regulation of gene expression at the level of transcription <p>a) lac Operon</p>




	<p>v) Bergey's manual of systematic Bacteriology, General characteristics enlisting all parts with major characters & examples. (Vol I to IV)</p>	<p>Types of antigens : species specific antigen, Isoantigen, autoantigen, organ specific antigen , MHC antigen , Heterogenetic (Heterophile) antigen , antigens in relation to bacterial cell. Antibody : Immunoglobulins : structure & classes, Types of antibodies : antitoxin , precipitin, agglutinin, bacteriolysin, bacteriocidin, bacteriotropin, complement fixing, neutralizing.</p>	
Oct-2022	<p>2.2 General characteristics and classification of Viruses.(LHT system) 2.3 General characters of Fungi (including yeasts) 2.4 General characters of Actinomycetes 2.5 General characters of Algae 2.6 General characteristics of Mycoplasma and Rickettsia. 2.7 General characteristics of Archaeobacteria 2.8 Introduction to Gnotobiology/ axenic life/ space microbiology.</p>	<p>2: Credit 3. (15) Immune responses : Primary & secondary responses. Fate of antigens in tissues Production of antibodies : organs & cells involved, monoclonal Antibodies, Regulation of antibody production (genetic control). Factors influencing Antibody production: Cellular immune response – organs & cells involved, characteristics &</p>	<p>Bacterial Recombinations:</p> <ul style="list-style-type: none"> Transformation-discovery, nature of transforming principle, competence factors, mechanism of transformation Conjugation-discovery, structure and properties of plasmids (F, R, Col.,) Plasmid incompatibility, process of conjugation-(F, HFr, and F mediated transfers) Transduction –mechanism of generalized and specialized transduction, Abortive transduction, lysogenic conversion.
Nov -2022	<p>Credit – 3 : 3.1 Microscopy 3.1 Properties of light i) Definitions : Magnification, resolving power, depth of focus, focal length, numerical aperture. ii) Objectives Low , high & oil immersion. iii) Oculars : function, Huygenian, Ramsden, Hyperplane & compensating. iv) Condensers ; Abbe, variable focus cordiod, parabolic & their functions. v) Iris diaphragm. 3.2 Principles, construction using ray diagram, application and comparative study of : i) Comound Microscope ii) Electron Microscope – SEM, TEM 3.3 Principles, ray diagram & applications. i) Phase contrast microscope. ii) Dark field microscope. iii) Fluorescent microscope. iv) Advanced applications of microscopes.</p>	<p>Types of T cells. Antigen – Antibody reactions: General features of Antigen- Antibody reactions Mechanism methods & applications of: i) Agglutination: ii) Precipitation iii) Complement fixation iv) Neutralization v) Immunofluorescence vi) ELISA</p>	<p>Unit- 4 : Mutations (15) o Spontaneous mutations (replica plating ,fluctutation test) Base pair substitutions and frame shift mutations. Mutagenesis by Physical and chemical agents. - UVrays, Xrays , Base analogues, Agents modifying purines and pyrimidines, Nitrous acid, DMS, EMS, EES, Agents producing distortions in DNA -- Proflavin, Acridine orange , Intercalating agents (Ethidium bromide) . • Suppressions – true reversion versus genetic suppression (intragenic and intergenic suppressions) • Site directed mutagenesis</p>



Month	Class: FY	Class: SY	Class: TY
	Paper No: IV	Paper No: XI	Paper No: XIX
	Semester: II	Semester: IV	Semester: VI
Dec- 2022	<p>IV. cytology and general Microbiology</p> <p>Unit-1:1.Bacterial morphology and ultra structure. 1.1 Cytology of a typical bacterial cell. i) Morphology – size and arrangement of bacterial cells. ii) Structure,chemical compositions and functions of: 1. Capsule and slime layer 2. Cell wall : Gram positive and Gram negative bacteria 3. Unit membrane 4. Flagella : Arrangement, mechanism of flagellar movement, Chemotaxis, phototaxis, Magnetotaxis. 5. Pili 6. Ribosomes. 7. Nuclear material, Mesosome 8. Reserved food material: Poly beta hydroxy butyric acid granules, glycogen and polyphosphate granules. 1.2 Bacterial cell division i) Binary fission</p>	<p>XI Applied Microbiology</p> <p>Credit 1. Microbiology of milk : (13) Definition of and composition of milk Sources of microorganisms in milk Desirable and undesirable changes carried out by microorganism in milk Types of microorganisms – Biochemical types, temperature characteristic types and pathogens (of bovine and human origin) , Changes in the flora of raw milk stored at room temp, Microbiological examination of milk – SPC, DMC reductase tests. Pasteurization, phosphatase test , sterilization of milk. Cheese – microbiology and production .</p>	<p>XIX RDT Unit:1 (15) • Recombinant DNA technology :definition, tools used for cloning, restriction endonucleases (types, nomenclature, recognition sequences, with examples). • Modification of blunt ended DNA (T4 ligase, homopolymer tailing, linkers and adapters) • Vectors : properties of good vector, cloning and expression vectors. (pBR322, pUC8, pSC101,) ,Bacteriophage vectors (λ phage,M 13 phage vectors), phagemid, cosmids,YAC /MAC. • Genetic engineering – principles, cloning organisms, uptake of DNA (Calcium chloride treatment, electroporation, protoplast fusion, liposome), selection of recombinant clones. • Genomic library (construction and identification of desired clone)</p>
Jan-2023	<p>Unit – 2 Nutritional Requirements i) Concept. ii) Common nutritional requirements – Energy sources, C, N, P, O,S, micronutrients, growth factors, water etc. iii) Classification on the basis of carbon and energy Bacterial growth i) Concept of Growth ii) Definition iii) Bacterial growth curve iv) Phases of growth v) Mathematics of growth vi) Diauxy</p>	<p>Unit II Food Microbiology Food as substrate for microorganism Major group of bacteria fungi yeasts importance in food microbiology Principle of food preservation Classification of food by ease of spoilage chemical change caused by microorganism in food Types of spoilage of canned and non-canned food with organism involved</p>	<p>Unit :2. • Nucleic acid & protein blotting techniques : Southern blotting, western blotting, northern blotting. • Colony hybridization • DNA sequencing (Maxam & Gilbert) • Probes (preparation & labeling) , its uses • PCR</p>

	<p>pH, oxygen and nutrients).</p> <p>viii) Synchronous growth</p> <p>ix) Continuous culture</p> <p>x) Measurement of bacterial growth</p>		
Feb-2023	<p>Unit – 3 Microbial Physiology</p> <p>1. Endospore – types, sporulating bacteria ,architecture of endospore, sporulation process , germination process.</p> <p>2. Uptake of nutrients</p> <p>i) Passive diffusion</p> <p>ii) Facilitated diffusion</p> <p>iii) Active transport mechanism.</p> <p>iv) Group translocation</p> <p>vi) Uptake of amino acids and metals</p> <p>3. Anaerobic respiration : NO₃ , SO₄ and CO₂ as electron acceptors.</p> <p>4. Bacterial photosynthesis :</p> <p>i) Photosynthetic bacteria,</p> <p>ii) Photopigments and associated carriers,</p> <p>iii) Photosynthetic apparatus and its mechanism</p> <p>iv) Cyclic and non cyclic photophosphorylation ,</p> <p>v) Calvin cycle, and reductive carboxylic acid cycle for CO₂ fixation.</p> <p>vi) Differences between bacterial and plant photosynthesis.</p>	<p>Unit III food borne disease and intoxication</p> <p>Food borne disease food infection indicator of food pathogen associated with food</p> <p>FOOD INTOXICATION</p> <p>Staphylococcal,</p> <p>Clostridrial,</p> <p>Mycotoxins</p> <p>Enteropathogenic</p> <p>E.Coli</p> <p>Salmonellosis</p> <p>and Shigellosis</p>	<p>Unit :3 (15)</p> <ul style="list-style-type: none"> • Gene therapy • Applications of genetic engineering <p>a) Agriculture</p> <p>b) Human and animal health</p> <p>c) Industries</p> <p>d) Environment</p>
Mar-2023	<p>Unit – 4 Advances in Microbiology</p> <p>a) Genetic engineering.</p> <p>b) Bioinformatics</p> <p>c) Nano biotechnology</p> <p>d) Bioaugmentation</p> <p>e) Biostatistics</p> <p>f) Enzymes and cell immobilization</p>	<p>Unit4.Fermented food and probiotics</p> <ul style="list-style-type: none"> • Cheese : Classification and Probiotics • Butter • Idli • Criterion for probiotics Yoghurt and Curd • Mashroom as SCP 	<ul style="list-style-type: none"> • Ethical issues of genetic engineering • Transposition- Discovery, structure and types of bacterial transposons, mechanism of transposition, spread of antibiotic resistance, mutation due to transposition



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Dept. of Environmental – Science

Annual Teaching Plan

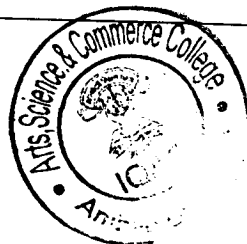
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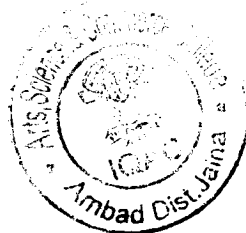
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Dept. of Environmental-Science , Annual Teaching Plan (Year: 2021 -2022)

Month	Class: B.Sc.F.Y	Class: : B.Sc.F.Y	Class: B.Sc.F.Y
	Paper:Paper-I EVS-111	Paper: Paper-II EVS-112	Paper: Paper-III EVS-113
	Semester: I	Semester:I	Semester: I PRACTICAL
Oct	Concepts of Environment Unit-I 1. Introduction : Definition of Environment and Environmental Science Environmental Science - Scope and Importance.	Ecology-Unit – I : Introduction: Ecology- Definition and scope, Ecosystem-Concept and structure of ecosystem, Functions of ecosystem	EVS-113 (Paper-III) : Lab Course-I (Practical paper based on paper I & II) 1. To study the 'Laboratory Safety Rules'. 2. To study the cleaning methods of glass wears.
Nov	Biosphere: Definitions, Components of biosphere. 2. Evolution of Life : Origin of the earth; Evolution of life; Atmosphere of the primitive earth. Unit-II: Biotic Components of Environment: Three kingdom of living world-	Biotic Components of ecosystem (producer, consumer and decomposer), Abiotic components of ecosystem (Wind, Temperature, Soil, Minerals, Nutrients, CO2, Solar radiation, etc), Application of ecology in aquaculture Unit – II : Food chain, Food web, Trophic structure, Ecological pyramid, Energy in ecosystem, Energy flow in ecosystem, Laws of thermodynamics.	3. To study the First-Aid and emergency treatment in laboratory. 4. Collection and Preservation of phytoplankton and zooplankton samples from different water bodies (river, pond, lake etc)
Dec	a) Classification of Plants b) Classification of Animals c) Classifications of Protista ABIOTIC COMPONENTS OF ENVIRONMENT Unit-III: Atmosphere: Definition, Structure and composition of atmosphere, Evolution of atmosphere, Composition of air, Atmospheric temperature, Atmospheric pressure	Unit – III: Types of Ecosystems: Terrestrial ecosystem - Dessert ecosystem, Grassland ecosystem, Forest ecosystem (Evergreen and Deciduous), Mountain ecosystem and Marsh land. Unit – IV: Aquatic Ecosystem: Freshwater ecosystem : i) Lentic ecosystem- Ponds and Lakes; ii) Lotic ecosystem – Rivers and Streams. Marine ecosystem: Oceans , Seas, and Estuaries.	5. The qualitative study the phytoplankton's (any 10 specimens). 6. The qualitative study the zooplanktons (any 10 specimens). 7. The quantitative study of zooplanktons -Percentage composition study
Jan	Unit-IV: Lithosphere: Definition, Structure of lithosphere, Soil composition, Soil profile, Physical and chemical properties of soil, Soil formation (pedogenesis)- physical, chemical and biological weathering. Unit – V: Hydrosphere: Definition, Structure of water molecule, Properties of water, Distribution of water on earth, Hydrological cycle .	Unit – V : Adaptation: Significance of ecological adaptation , Ecological adaptation in Plants :- Hydrophytes, Xerophytes, Mesophytes and Halophytes; Ecological adaptations in animal	8. Collection of hydrophytes, xerophytes, mesophytic and halophytic plants / animals specimens. 9. Study of xeric adaptation in plants, morphometrically and histologically. 10. Study of xeric adaptations in animal (at least 5 specimens morphometrically) 11. To study the aquatic adaptations in plants morphometrically and histological (at least 5 specimens) 12. Study of mesophytic specimens (at least 5 specimens)



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Dept. of Environmental-Science, Annual Teaching Plan (Year: 2021 -2022)

Month	Class: B.Sc.F.Y	Class: B.Sc.F.Y	Class: B.Sc.F.Y
	Paper: EVS-121.Paper-IV	Paper: EVS-122.Paper-V	Paper: EVS-123.Paper-VI
	Semester: II	Semester: II	Semester: II
Mar	Environmental Chemistry and Natural Resources Unit – I: Introduction to Environmental Chemistry: Definition of Environmental Chemistry; Concept and Scope of Environmental Chemistry;	Population and Environmental Issues Unit – I: Introduction:Definition of Population and Population ecology; Characteristics of Population: - Natality, Mortality, Density, Migration, Immigration, Age distribution, Age structure.	EVS-123 (Paper-VI): Lab course-II (Practical Paper based on Paper IV & Paper V) 1. To study the laboratory equipments and instruments (Oven, Microscope, Incubator, Inoculation chamber, Autoclave, Electronic balance, pH meter, Colorimeter, Turbidity meter, etc). 2. To study the preparation of reagents of different Normality and Molarities (i.e. 1 N, 0.1N, 1M,etc).
Apr	Definition and description of various terms :- Contaminant, Pollutant, Sink, Aerosols, RSPM, Particulate matter, DO, COD, BOD, Toxicology, Toxins, Hazardous chemicals, Carcinogens, Sewage, Affluent, Effluents, Potability etc. Unit – II: Bio-geo chemical cycles in the environment: Carbon cycles, Oxygen cycle, Nitrogen cycles , Phosphorus cycles and Sulphur cycles. Unit – III: Chemistry of ozone layer, Ozone depletion :- Causes and effects, Green house effect:- Major green house gases, Causes and effects, Global warming; Acid rain: - Causes and effects.	Unit – II: Population growth: Population growth curves :- Sigmoid curve and J-Shape curve, Population fluctuation –Population oscillation, World's Population and its relation with development and pollution, Population explosion, Population explosion in India, Family planning. Unit – III: Community ecology: Definition and types of community, Structure and classification, characteristics of community, Stratification, Ecotone and Edge effect.	3. To study the species area curve of plant species from terrestrial ecosystem / college campus. 4. To study the relative density of plant/animals species by quadrat method (by field work or by simulation). 5. To study the relative frequency of plant / animal species by quadrat method (by field work or by simulation). 6. To study the relative abundance of plant / animal species by quadrat method (by field work or by simulation).
May	Unit – IV: Natural resources: Definition, Classification of resources:-Renewable and Non-renewable, Mineral resources :- Uses and their exploitation, Energy Resources:- Fossil fuel energy resource, Wind energy , Solar energy, Biomass energy. Unit – V: Forest and Wild Life Resources: Forest resource :- Types of forest , Importance of forest, Deforestation, Aforestation, Social forestry, Wild life :- Important wild species from India,National Parks and Sanctuaries-(Kanha National Park, Tadoba National Park, Jaikwadi Bird Sanctuary)	Unit – IV: Ecological Succession: Definition, types of succession, Process of succession, Examples of succession: – Succession in plants on rocks and in water body, Concept of climax. Unit – V: Environmental issues: Definition and concept of : - Biodiversity conservation,- Sustainable development, - Wetland, - Mangroves, - Environmental impact assessment (EIA), - SEZ (Special Economic Zone), - Scheme of labeling of environmental friendly products (Eco-marks), - Wasteland	7. To study the total population of species by organism removal method (by simulation method) 8. To study the Importance Value Index (IVI) of any tree plant species. 9. Study of primary productivity of macrophytes from water reservoir by harvest method. 10. To study the endangered species (at least 06).11. To determine the total population of avifauna from unit area of habitat by direct count of their nests and artifacts. 12. Submission of study tour / field visit report.



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Month	Class: B.Sc.S.Y	Class: B.Sc.S.Y	Class: B.Sc.S.Y	Class: B.Sc.S.Y
	Paper: EVS-231, Paper-VII	Paper: EVS-232, Paper-VIII	Paper: EVS-233, Paper-IX	Paper: EVS-234, Paper-X
	Semester: III	Semester: III	Semester: III	Semester: III
Oct	Unit-I : Solid Waste :- Introduction, Classification of solid waste,	Unit-I: Introduction:- a). Definition, Branches of Microbiology (Industrial, Medical, Mycology, Environmental microbiology), History of Microbiology.	1. Collection and preservation of soil samples. 2. Determination of Lime by titration method.	1. To study the principle and applications of instruments used for microbiological study- Incubator, Inoculation chamber, Microscope. 2. To study the morphological characters of bacteria by Simple staining method
Nov	Types of solid waste (Domestic, Industrial and Biomedical and Hazardous waste), Sources of solid waste, Concept of segregation at source. Unit-II: Solid Waste Management: 3-R's: Reduce, Reuse, and Recycle of solid waste, Collection of garbage, Disposal methods : Sanitary land filling, Disintegration, Incineration, Eco-friendly techniques: Composting and Vermicomposting.	b). Kingdom Protista : Concepts and classification of : - Prokaryotes (Bacteria and Cyanobacteria) - Eukaryotes (Algae, Fungi and Protozoans) Unit-II: Bacteria: - Morphology and general characters, - Classification of bacteria based on temperature, pH, oxygen requirement, Carbon and energy source. - Growth of bacteria.	. 3. Determination of organic carbon from soil samples by Ignition / Walkley method. 4. Determination of Electrical Conductivity of soil samples. 5. To study the pH of solid waste and soil. 6. Determination of NPK of Solid waste / soil samples.	3. Study of bacteria by Grams staining method. 4. Study of bacteria by negative staining method. 5. IMVIC Test (Faecal and non Faecal coliforms) 6. Qualitative analysis of water by MPN technique.
Dec	Unit-III: Soil: Importance of organic fertilizers, Soil microbiology, Standards or soil quality required for various crops, Soil pollution cause and remedies, Conservation of soil, Soil erosion.	Unit-III: Viruses: -Morphology, General characters of viruses, - Distribution (Animal, Plant and Bacteriophage viruses). Unit-IV: a) Pure culture : Concept, Preparation and Preservation, b) Control of microorganism : - Sterilization and disinfection - Physical agents (Heat, Radiation, Filters), - Chemical agents (Acid, Ethylene oxide, Alcohol and heavy Metals)	7. To study the water holding capacity of soil. 8. Measurement of Noise by Noise meter (dB meter) 9. Demonstration/ Preparation of vermicompost bed for organic solid waste	7. Identification of bacterial growth by Streak plate, Pour plate and Spread plate method. 8. Motility of bacteria by hanging drop technique. 9. Sterilization of culture media. 10. Preparation of pure culture.
Jan	Unit-IV: Noise: Introduction, Definition, Standards prescribed for Noise in Indian context. Characteristics of sound, Noise measurement, db meter Unit - V: Noise pollution: Sources of Noise Pollution, Mechanism of hearing, Effect of noise,. Noise Pollution control (at Industrial, commercial and Residential places).	c) Definition and concept of vaccinations : Antigen and Antibodies as preventive measures against microbial diseases Unit - V: Diseases caused by contaminated water: - Introduction and Sources Water borne bacterial diseases with their causal organism, symptoms, prevention and control measures: Cholera, typhoid, Shigellosis	10. To study the percentage composition of degradable and non bio-degradable waste. 11. Determination of total acidity of soil sample. 12. Determination of total alkalinity of soil sample	11. Membrane technique (Demonstration) 12. Study of standard plate count (SPC)



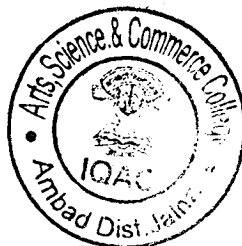
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Month	Class: B.Sc.S.Y	Class: B.Sc.S.Y	Class: B.Sc.S.Y	Class: B.Sc.S.Y
	Paper: EVS-241, Paper-XI	Paper: EVS-242, Paper-XII	Paper: EVS-243, Paper-XIII	Paper: EVS-244, Paper-X IV
	Semester: IV	Semester:IV	Semester: IV	Semester: IV
Mar	Unit-I : Introduction to air pollution:- Definition, Composition and Chemistry of Earth atmosphere, Sources and classifications of air pollutants: Sources of air Pollutants, Classification of air pollutants, Factors affecting air pollution	Unit-I: Water resources: - Global Water Balance (GWB) - Surface water sources : Lakes, Streams, Rivers - Underground water sources : Infiltration galleries, Infiltration wells. - Types of Lake, (Oligotrophic, Mesotrophic and Eutrophic)	1. Study of various equipments used in air pollution. 2. Detection and identification of Pollen grains.	1. Study of instruments used in water analysis :- pH meter, Conductivity meter, Turbidity meter,colorimeter. 2. Study of penetration of light in water reservoir by Secchi disk. 3. Determination of pH and temperature of water sample.
Apr	Unit-II: Effect of air pollution: a) On human health, Vegetation, Historical monuments and on Materials. b) Episodes : London smog, Bhopal Disaster, Los Angeles, Chernobyl disaster	Unit-II: Uses of Water and Water Supply: - Uses : Domestic, Industrial, Agricultural, Recreational, etc. - Types of Water : Fresh and Marine. - Patterns of Drinking water supply Unit-III: Restoration of Water : - Rain Water harvesting, - Roof Water harvesting, - Watershed management.	3. Dust fall measurement by sedimentation method (tiles). 4. Detection of SO ₂ gas and its effect on plants. 5. Detection H ₂ S gas and its effect on plants.	4. Determination for total Alkalinity of water sample. 5. Measurement of Rain fall by Rain gauge meter. 6. Determination of residual chlorine from treated water by titration. 7. Determination of total Acidity of water sample.
May	Unit-III: Air sampling and analysis: Principle and Functioning of: High Volume Air Sampler, Sedimentation, Tilak Air Sampler, Ambient air quality Monitoring : SO _x , NO _x , SPM, RSPM Unit-IV: Pollution control methods: Sedimentation, Filters, Cyclone, Electrostatic Precipitator, Scrubbers. Unit-V: Air Pollution Act 1981 Air pollution standards – Indian ambient air quality standards and United States Standards	Unit-IV: Management : - Self purification of rivers, - Integrated Water Resource Management (IWRM), - Integrated Lake Basin Management (ILBM) - Stockhom Water Prize Unit-V: Case Study : - Aurangabad Municipal Water Supply. - Water Purification Treatment Plant at Pharola, Aurangabad. - Nath sagar reservoir (Jaikwadi dam)., - Water Act 1974	6. Detection of NH ₃ gas and its effect on plants. 7. Measurement of atmospheric temperature by maximum and minimum thermometer. 8. Preparation of PDA, 9. Detection and Identification of fungal spores/ colonies by PDA. 10. Study of various sampling techniques (Rotorod, High volume, Volumetric) 11. Demonstration of HVAS (High Volume Air Sampler). 12.Determination of SPM and RSPM by using High volume Air Sampler.	8. Determination of Dissolved oxygen content from water. 9. Determination of Hardness from ground water. 10. Determination of Chlorides from water / waste water sample 11. Study of primary productivity of water body. 12. Study of endangered species i.e. wild animals (any five).



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Month	Class: B.Sc.T.Y Paper: EVS-351, Paper-XV Semester: V	Class: B.Sc.T.Y Paper: EVS-352, Paper-XVI Semester: V	Class: B.Sc.T.Y Paper: EVS-353, Paper-XVII Semester: V-Lab course	Class: B.Sc.T.Y Paper: EVS-354, Paper-XVIII Semester: V- V-Lab course
Oct	Introduction : Unit:I .water pollution	Introduction: Unit:I . Treatment Technology,Waste water Defination.	1. Study of sampling techniques. 2. Study of preservation of water samples.	1. Estimation of sulfate from water sample
Nov	Unit:I .Meaning of the terms : potability,sewage,affluent,Effluent Sample,Contamination,Eutrophication ,Pollution,Pollutants. Sources of water pollution: Domestic, Industrial,Agriculture.	Unit:I . Types and sources of waste water,Needs of wastewater treatment,collection of waste water. Unit:II .Principal, working mechanism,advantages and disadvantages of following sewage treatment methods:	3. Determination of BOD of water sample. 4. Determination of COD of water sample. 5. Determination of Suspended solids of water sample.	2. Estimation of phosphates from water samples 3. Estimation of nitrates from water sample 4. Estimation of nitrites from water samples
Dec	Unit:II . Types of water pollution- Introduction ,Sources and effects of pollutants on aquatic flora and fauna a)Fresh water pollution:River,Ponds and lakes, b)Ground water pollution c)Marine water pollution Unit:III . Analysis of water Physical parameter and chemical parameter	Unit:II .Preliminary treatment: Grite chamber. Skimming tank. Screening. Primary treatment: sedimentation (clarifier) Coagulation(chemical precipitation tank) Unit:III . Secondary treatment(biological treatment) Aerobic: Trickling filter, Activated sludge, oxidation ponds,lagoons. Anaerobic treatment : septic tank, sludge digestion and disposal	6. Determination of dissolved solids of water sample. 7. Determination of total solids of water samples. 8. Determination of Oil & Grease in polluted water. 9. Determination of Free CO ₂ in water sample.	5. Estimation of ammonia in water samples 6. Determination of conductivity of water sample 7. Jar test demonstration
Jan	Physical parameter : color , odour, taste,TS,SS,DS,Turbidity chemical parameter : pH, Hardness,chlorides,residual chlorine,DO,BOD,COD,oil and grease,Ammonia,Nitrates,Nitrites,sulphates, phosphates. Unit:IV .Biological parameter: Planktons,Algae. MPN/100ml,IMViC test,SPC. Unit:V . Quality of water : Meaning of pure water. Standard of Potable water.	Unit:IV . Tertiary treatment or chlorination: Aim, need, dose of chlorine. Ozonation Unit:V . Water purification methods : Collection of raw water, sedimentation, Unit:V . Filtaration, disinfection	10. Estimation of abundance Phytoplankton's from water samples. 11. Quantitative techniques in aquatic microbiology – SPC 12. The presumptive, confirmatory and completed tests for determination of sewage contamination. 13. Determination of Water Quality Index (WQI).	8. Determination of chlorine by chloroscope 9. Determination of redox potential of water samples 10. Determination Hydrogen Sulphide in sewage sample. 11. Determination of dissolved oxygen from polluted water sample by using azide modification. 12. Determination of Turbidity from given water sample.



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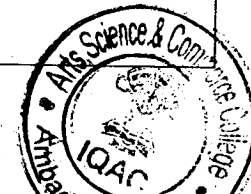
Month	Class: B.Sc.T.Y Paper: EVS-361, Paper-XIX Semester: VI	Class: B.Sc.T.Y Paper: EVS-362, Paper-XX Semester: VI	Class: B.Sc.T.Y Paper: EVS-363, Paper-XXI Semester: VI, Lab course	Class: B.Sc.T.Y Paper: EVS-364, Paper-XXII Semester: VI
Mar	Unit:I Introduction: Toxicology: Definition. Concept of toxicology, movement of toxicants in the Environment, Classification of toxic substances, i.e. Toxic gases, Organic poison, Inorganic poison.	Unit:I. Introduction to safety and safety management. Need for integration of safety, Health and Environment(S,H & E) Comman safety tips- personal protection Lockout, Accident prevention signs, Occupational noise, Fire safety, Ladder safety.	1) Estimation of Zn from provided contaminated water sample 2) Determination of iron content from contaminate 3) Estimation of Pb from provided contaminated water d water.	Project work, Industrial visit report and Seminars. i) Project report: One project has to be completed during the third year as a part of practical paper of sixth semesters Lab course
Apr	Unit:II. a) Factors affecting Toxicity: Chemical factors- Polarity, Molecular weight, Nature of chemical. Biological factors: Sex, Age, Body weight, Heredity and genetic characters. b) Dose response relationship. c) Acute exposure and chronic exposure. Unit:III. Occurance , pollution source, use, effect and remedial measure of: a) Gases- CO, CO ₂ , H ₂ S, SO ₂ , NO ₂ b) Heavy metals- As, Pb, Hg, Cu.	Unit:II. Industrial safety: Introduction. Hazard checklist- House keeping (meaning & methods) Machine Hazard, fire hazard, Protective equipments, Electrical equipments, tools. General safety rules. Unit:III. Safety Management- Safety management – principal of safety management. Fire preservation- Accident prevention(Principal, Basic terms)	4) Estimation Cu from provided contaminated sample 5) Estimation Mn from provided contaminated water sample 6) Effect of pesticides on seed germination. 7) Effect of Heavy metals of seed germination 8) To study the effects of gaseous pollutant SO ₂ on plant (Leaves and flowers).	ii) Industrial visit report: At least one industrial visit is to be arrange during each semester. The industrial visit report is to be submitted along with project report.
May	Unit:IV. Environmental Toxicant- Occurance , source, effect and remedial measure : a) Toxicant in water- Hydrocarbons in water. b) Toxicant in soil- Pesticides. c) Toxicant in Air- Atmospheric Lead. Unit:V. Carciogenic, Chemistry of Carciogenic compounds, Carciongens, Mutagens and Teratogens. Cancer causing agents- Drug , tobacco, Narcotic. Unit:VI. Toxicity assessment method, Lethal concentration (LC), Lethal dose (LD).	Unit:IV. Hazardous Waste. Definition. Sources of Hazardous waste, Classification of Hazardous Waste- Biomedical Waste, Radioactive waste, chemical waste, Household Hazardous waste, Characteristics of hazardous waste- Ignitability (Flammable), Reactivity, Corrosivety, Toxicity. Unit:V. Disposal of Hazardous waste: Recycling, Neutralization, Incineration, Pyrolysis, Hazardous waste Landfill. Unit:VI. Effects of hazardous waste, Bhopal Gas Tragedy	9) To study the effects of gaseous pollutant H ₂ SO ₄ plant (Leaves and flowers). 10) To study the bioaccumulation of heavy metals and pesticides in living organisms 11) Qualitative detection of pesticides from waste water. 12) Estimation of Hg from provided contaminated water.	iii) Study tour report: The study tour is to be arrange for understanding environment in total. The participation in study tour and industrial visit is compulsory. The study report is to be submitted. iv) Seminar presentation.



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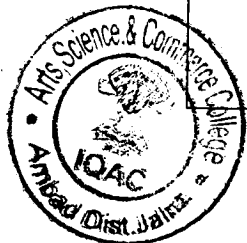
Month	Class: B.Sc. I	Class: B.Sc. II	Class: B.Sc.III
	Paper: I and II	Paper: VII and VIII	Paper: XV and XVI
	Semester: I Theory	Semester: III Theory	Semester: V Theory
Oct	<ul style="list-style-type: none"> *Introduction to Zoology -Animal Kingdom -Protozoa, Porifera 	<ul style="list-style-type: none"> *Agnatha-Out line classification and general characters of cyclostomata.Pisces- Out line classification and general characters *Genes and its expression-Definition, concept and function of gene. Transcription of gene: - Initiation, elongation and termination. 	<ul style="list-style-type: none"> * Introduction of ecology. Abiotic environmental factors-Temperature, Light, Adaptation to salinity and moisture * Introduction to biotechnology -Biotechnology in India
Nov	<ul style="list-style-type: none"> *Porifera-General characters sycon- Different types of cells in sycon, canal system in Porifera * Concept of cell -General structure of cell -organization of cell-Plasma membrane Endoplasmic reticulum, golgi bodies, Mitochondria-Morphology, ultra structure, biogenesis 	<ul style="list-style-type: none"> *Scoliodon- External characters, Digestive system, Respiratory system, Blood Vascular System and Nervous System. Amphibia-classification and general characters. Development of frog - Fertilization Cleavage etc Neotony Parental care in amphibia *Genetic code-Concept properties of genetic code Translation of gene Population Genetics Gene Pool Frequency. Herdy-weinberg's Law. 	<ul style="list-style-type: none"> * Biotic environmental factors Composition, Predation, Commensalisms, Mutualism, Parasitism * Genetic engineering: Concept and definition. Steps involved in gene cloning Application
Dec	<ul style="list-style-type: none"> * Coelenterate: - General characters Obelia: - Morphology of Obelia colony, Development of Hydra, Polymorphism *Nucleus: - Structure and function. DNA Structure Types of RNA 	<ul style="list-style-type: none"> * Reptilia-classification Calotes-External features, Respiratory system and Blood vascular system Poisonous and non-poisonous snakes * Human Genetics and disorders 	<ul style="list-style-type: none"> *Population:concepts,characteristics of population; Population growth and regulation. *Isolation & amplification of desired gene Genomic library, cDNA library In vitro synthesis of gene Polymerase chain reaction. Enzymes in gene cloning
Jan	<ul style="list-style-type: none"> *Helminths- General characters -Fasciola hepatica, Taenia solium -Ascaris lumbricoides *Lysosome--Ribosome Cytology of Cancer Annelida-General characters -Leech- Digestive, Excretory and Reproductive systems *Methods in cell biology -Microscope-light, Electronic -Microtechniques-Microtomy 	<ul style="list-style-type: none"> * Aves <i>Columba livia</i>: - External features, Respiratory system, Embryology of chick. Flight adaptation and Migration in Birds. * Microbial Genetics Transformation. Conjugation Transduction, Mammalia <i>Ratus ratus</i> Blood Vascular System, Urino-genital System and Adaptive radiation and Placentation in Mammals * Genetic Engineering Concept Restriction enzymes Concept and types Cloning vectors Construction of r-DNA. Application of r-DNA technology 	<ul style="list-style-type: none"> *Community: concept and types. Structure and character of community, Community succession *Cloning vectors -Gene transfer methods, Ecosystem: components and dynamics of ecosystem, Marine, pond, Forest and Desert ecosystem. *Screening of cloned gene -Problems and solutions for gene cloning



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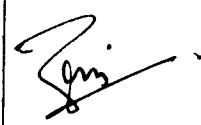
Month	Class: B.Sc.I	Class: B.Sc.II	Class: B.Sc.III
	Paper: III	Paper: IX and X	Paper: XVII and XVIII
	Semester: I Practical	Semester: III Practical	Semester: V Practical
Oct	Study of slides from Ciliates, Opalinates, and Flagellates	Museum study of vertebrates. -Preparation of paper model of DNA and study of DNA structure -Study of protein synthesis with the help of charts/models. Dissection of Scoliodon / Labeo Afferent and efferent, Cranial Nerves, Brain.	*Estimation of productivity of pond ecosystem -Determine the following parameters of soil. pH, alkalinity chlorinity salinity -Principle and application of gel electrophoresis, column chromatography, high pressure liquid chromatography, centrifuge, laminar flow, spectrophotometer -Analysis of DO, CO ₂ , salinity, chlorinity of water sample.
Nov	-Study of museum specimen and slides from Porifera to Annelida. -Dissection of Leech for systems. -Dissection of Earthworm for systems	Estimation of DNA from animal tissue with the help of Diphenyl amine method. -Study of preparation of Normal Karyotype of human. Dissection of Rat/ Frog: Urinogenital system, Arterial system, Venous System, Brain of Rat. -Karyotypic study of Down's syndrome,	Study of animal association ship -Estimation of total DNA from animal tissue using Diphenylamine method. -Estimation of total RNA from animal tissue using orcinol method
Dec	-Mounting of sponge, Obelia colony, Jaws of leech. Spermataca, testes nerve ring of Earthworm, Parapodia of Nereis. -Study of cell organelles	- Turner's syndrome, Klinefelter's syndrome with the help of photograph. -Detection of Barr body from epithelial cell, Mounting of Placoid, Cycloid and Ctenoid scales of fish -Study of Embryological development of chick according to hours of incubation	-Estimation of population density by Quadrate method on field and by Simulation method. -Isolation of messenger RNA from animal source using affinity chromatography -Isolation of total DNA from tissue, Preparation of permanent slides of following <i>Spirogyra</i> , <i>Verticella</i> , <i>dogonium</i> , <i>Daphnia</i> , <i>Cyclops</i> , <i>Mysis</i> , <i>Cypris</i> , <i>keretella</i>
Jan	-Squash preparation of Onion root tip to study Mitosis. -Preparation of polytene chromosome in chironomous larva. Microtechnique: Microtomy and Staining -Study of Microscopy	Problems on sex linked inheritance. Problems based on Hardy – Weinberg's law, Visit to Zoological museum/Zoo Park and Submission of report 7. Write a report on common birds/mammals in your locality, scientific names and economic importance. -Study of gene frequency and mutants of man	DNA electrophoresis by agarose gel, Project report: - Forest or fresh water ecosystem, Demonstration of Animated methods of following gene cloning, restriction digestion of DNA, southern blotting techniques, northern blotting technique



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Month	Class: B. Sc. I	Class: B. Sc. II	Class: B. Sc. III
	Paper: IV and V	Paper: XI and XII	Paper: XIX and XX
	Semester: II Theory	Semester: IV Theory	Semester: VI Theory
Mar	<ul style="list-style-type: none"> * Arthropoda-General characters * Elements of heredity & variation Definition of genetics and variation Mendel's laws of heredity, Prawn: - Digestive, Nervous, & Reproductive systems. Cockroach Characters, Digestive, Respiratory and Reproductive systems * Gene interaction: modifications in Mendelian phenotypic ratio like, Epitasis Supplementary & Complementary gene 	<ul style="list-style-type: none"> Digestion-Buccal digestion, Gastric digestion, Intestinal digestion * Enzymes-concept and nomenclature, Properties, classification, enzyme action, Factors affecting enzyme action, Enzymes:concept and nomenclature, Properties, classification,enzyme action, Factors affecting enzyme action * Carbohydrates: Classification, mono,di, oligo and polysaccharides. Metabolism: - Glucogenesis, Gluconeogenesis, Glycolysis, TCA. & oxidative phosphorylation 	<ul style="list-style-type: none"> * Organic evolution: concept. -Theories of organic evolution * Animal cell culture and requirements -Application and limitations of cell culture, Origin of Life: Definition, Abiogenesis, Biogenesis, Chemical evolution of life. Evidences of Organic Evolution * Manipulation of reproduction and transgenic animals -Transgenic animals methods
April	<ul style="list-style-type: none"> * Mollusca chracters Pila-Characters, Respiratory, Circulatory, Nervous and Reproductive systems * Multiple Alleles, Coat Color in rabbit, ABO Blood group in man, Rh factor Cytoplasmic inheritance. maternal effect. shell Coiling in snail Male sterility, CO₂ sensitivity, Kappa particles. 	<ul style="list-style-type: none"> Circulation: mammalian heart, Blood and its composition, blood clotting. 4. Excretion:Structure of kidney, uriniferous tubules. Urine formation process, Counter current multiplier system * Proteins: classification –simple,conjugated and derived proteins, Structure of proteins. Metabolism: - Deamination and transamination 	<ul style="list-style-type: none"> Darwinism: Natural selection theory, Artificial selection theory and sexual selection theory. -Elemental forces of evolution * Protein engineering: -Site-directed mutagenesis Commercial production of enzymes
May	<ul style="list-style-type: none"> Echinodermata: Asterias (Sea Star): - Morphology of oral & aboral view, Water vascular system, Reproductive system including development * Sex Determination -Chromosome theory Genic balance theory Triploid intersexes and Gynandromorphs, X linked and Y linked inheritance, Protochordata Amphioxus-Digestive, Circulatory,Reproduction Hemichordata: - Herdmania characters and morphology * Mutation -Gene mutation and types Chromosomal aberration (structural & numerical) Spontaneous & induced 	<ul style="list-style-type: none"> Nerve Physiology: Structure of nerve cells and neuron. Neurotransmitters. Synapses:Ultra structure and function Muscles Physiology:Ultra structure of smooth muscle, striated muscles, and cardiac muscles. Muscle contraction. * Lipids: Definition, classification and types Metabolism: - β oxidation and cholesterol biosynthesis, Reproduction:Structure of gonads, Gametogenesis. Role of sex hormones in Reproduction. Reproductive cycles – oestrous and menstrual cycle * Vitamins: - Sources and deficiency 	<ul style="list-style-type: none"> Basic patterns of evolution Sequential and divergent evolution. Microevolution, Macro evolution, Mega evolution -Species and speciation * Gene therapy and DNA fingerprinting - Human disease-diagnosis using biotechnology, Fossils: Definition , fossil formation Types of fossils. * Applications of biotechnology Agriculture, Medicine, Industry




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Month	Class: B. Sc. I	Class: B. Sc. II	Class: B. Sc. III
	Paper: VI	Paper: XIII and XIV	Paper: XXI and XXII
	Semester: II Practical	Semester: IV Practical	Semester: VI Practical
Mar	<p>-Study of museum specimen & slides of relevant Invertebrates protochordata. Dissection of Prawn for Nervous system -Dissection of Cockroach for Digestive and Nervous Systems.</p>	<p>Study the digestive enzymes from, cockroach/Human Saliva. Total count of RBC /WBC from given blood sample, Preparation of solutions, Study of analytical instrument principle and applications: pH meter, Colorimeter, Centrifuge, Electrophoresis, - Preparation of Heamatin crystals from blood sample, Hb% from given blood sample. -Factors affecting enzymes activity temperature and pH. -Detection of amino acid by paper Chromatography</p>	<p>Embryological evidences of evolution with the help of slide/chart/pictures. -Adaptive modification in feets of birds and mouth parts of insects -Sterilization of glassware and chemicals in tissue culture -Preparation of culture media and sterilization, Study of successive stages of evolution with the help of models/charts horse, human</p>
April	<p>Dissection of Pila for Nervous system. -Dissection of Sea Star for Water Vascular System. Mounting of any five of the following. Mouthparts of Cockroach, Mosquito, House fly, Bed bug and Honeybee</p>	<p>Effect of isotonic, hypotonic, and hypertonic solutions on blood cell (RBCs), Detection of nitrogenous waste product from the extract of different animals -Qualitative test for organic compound. Carbohydrate, Protein, Fats. Detection of nitrogenous waste product in fish/frog water tank, Estimation of O₂ consumed by fish -</p>	<p>Assay of cell viability using dye. -Effect of pH on acid phosphatase activity, Discussion on patterns of speciation with the help of charts /pictures. Allopatric, sympatric speciation. -Study the homologous and analogous organs. Study of natural selection using <i>E.coli</i> bacteria against antibiotics (Tetramycin/ Penicillin)</p>
May	<p>Salivary glands of cockroach. Redula of Pila, Pedicillaria of Star fish. Culture of Drosophila- experimental organism in genetics -Observation of common mutants of drosophila, Determination of human blood groups A, B, AB, and O, Rh factor, Major and minor problems in genetics</p>	<p>Typographic reading of skeletal muscle properties, heart beating in Toad / Rat. (Demo) -Quantitative estimation of protein from animal tissue using Lawry's method, Histological study of T.S. of Kidney, Testis, Ovaries, Pancreas, Intestine, Pituitary gland, Thyroid gland, Adrenal Gland, Islets of Langerhans,</p>	<p>Study of chromosomal aberration -Pure Culture of airborne/water bacteria. -Study of antibiotic resistant/ susceptibility of bacterial culture, Study of geographical era. -Demonstration of Animated methods of nuclear transplantation, hybridoma technique, DNA fingerprinting, Bt- cotton.</p>

Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
 Annual Teaching Plan (Year: 2021-2022)

Month	Class: B. Sc. I	Class: B. Sc. II	Class: B. Sc. III
	Paper: VI	Paper: XIII and XIV	Paper: XXI and XXII
	Semester: II Practical	Semester: IV Practical	Semester: VI Practical
Mar	-Study of museum specimen & slides of relevant Invertebrates protochordata. Dissection of Prawn for Nervous system -Dissection of Cockroach for Digestive and Nervous Systems.	Study the digestive enzymes from, cockroach/Human Saliva. Total count of RBC /WBC from given blood sample, Preparation of solutions, Study of analytical instrument principle and applications: pH meter, Colorimeter, Centrifuge, Electrophoresis, - Preparation of Heamatin crystals from blood sample, Hb% from given blood sample. -Factors affecting enzymes activity temperature and pH. -Detection of amino acid by paper Chromatography	Embryological evidences of evolution with the help of slide/chart/pictures. -Adaptive modification in feets of birds and mouth parts of insects -Sterilization of glassware and chemicals in tissue culture -Preparation of culture media and sterilization, Study of successive stages of evolution with the help of models/charts horse, human
April	Dissection of Pila for Nervous system. -Dissection of Sea Star for Water Vascular System. Mounting of any five of the following. Mouthparts of Cockroach, Mosquito, House fly, Bed bug and Honeybee	Effect of isotonic, hypotonic, and hypertonic solutions on blood cell (RBCs), Detection of nitrogenous west product from the extract of different animals -Qualitative test for organic compound. Carbohydrate, Protein, Fats. Detection of nitrogenous west product in fish/frog water tank, Estimation of O2 consumed by fish -	Assay of cell viability using dye. -Effect of pH on acid phosphatase activity, Discussion on patterns of speciation with the help of charts /pictures. Allopatric, sympatric speciation. -Study the homologous and analogous organs. Study of natural selection using <i>E.coli</i> bacteria against antibiotics (Tetramycin/ Penicillin)
May	Salivary glands of cockroach. Redula of Pila, Pedicillaria of Star fish. Culture of Drosophila- experimental organism in genetics -Observation of common mutants of drosophila, Determination of human blood groups A, B, AB, and O, Rh factor, Major and minor problems in genetics	Typographic reading of skeletal muscle properties, heart beating in Toad / Rat. (Demo) -Quantitative estimation of protein from animal tissue using Lawry's method, Histological study of T.S. of Kidney, Testis, Ovaries, Pancreas, Intestine, Pituitary gland, Thyroid gland, Adrenal Gland, Islets of langarhance,	Study of chromosomal aberration -Pure Culture of airborne/water bacteria. -Study of antibiotic resistant/ susceptibility of bacterial culture, Study of geographical era. -Demonstration of Animated methods of nuclear transplantation, hybridoma technique, DNA fingerprinting, Bt- cotton.

Name of Teacher: Madan Nagre

Art's ,Commerce and Science College, Ambad Dis. Jalna.

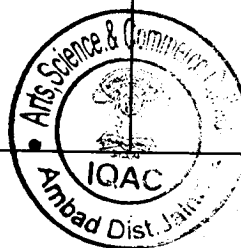
Class: B.Sc (T.Y)

Department: Physics

Annual Teaching Plan year 2021-22

Semester: V

Month	Paper-XVII (17) [theory]	Paper-XVIII (18) [theory]	Paper-XIX (19) [practical]	Paper-XX (20) [practical]
Oct	<ul style="list-style-type: none"> ➤ Basic classical mechanics ➤ Origin of quantum theory 			
Nov	<ul style="list-style-type: none"> > Basic classical mechanics > quantum theory > De Broglie wave 	<ul style="list-style-type: none"> > Crystal structure > test 	<ul style="list-style-type: none"> > Energy band gap 	<ul style="list-style-type: none"> > voltage regulation by zeener
Dec	<ul style="list-style-type: none"> ➤ De Broglie wave ➤ Test 	<ul style="list-style-type: none"> > crystal structure > Bonding in solid 	<ul style="list-style-type: none"> ➤ Edsar "A" pattern ➤ IH curve by excels 	<ul style="list-style-type: none"> ➤ Study of bridge rectifier
Jan	<ul style="list-style-type: none"> ➤ Schrodinger equation ➤ test 	<ul style="list-style-type: none"> ➤ Semiconductor devices ➤ Test 	<ul style="list-style-type: none"> ➤ Surface tension by ripples method 	<ul style="list-style-type: none"> ➤ Study of transistor. ➤ Study of CE
Jan	<ul style="list-style-type: none"> ➤ Schrodinger equation ➤ test 	<ul style="list-style-type: none"> ➤ DC circuits ➤ test 	<ul style="list-style-type: none"> ➤ Determination of e/m(cro) 	<ul style="list-style-type: none"> ➤ Rydberg constant



Name of Teacher: Madan Nagre

Art's ,Commerce and Science College, Ambad Dis. Jalna.

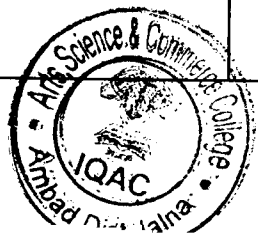
Class: B.Sc (T.Y)

Department: Physics

Annual Teaching Plan year 2021-22

Semester: VI

Month	Paper-XXI (21) [theory]	Paper-XXII (22) [theory]	Paper-XXIII (23) [practical]	Paper-XXIV (24) [practical]
Feb	Exam	Exam	Exam	Exam
Mar	<ul style="list-style-type: none"> ➤ Atomic physics ➤ Molecular physics 	<ul style="list-style-type: none"> ➤ Thermal properties of solid 	<ul style="list-style-type: none"> ➤ Op amp as adder ➤ Diffraction grating 	<ul style="list-style-type: none"> ➤ Thevenin theorem.
April	<ul style="list-style-type: none"> ➤ Molecular physics ➤ Test. 	<ul style="list-style-type: none"> ➤ Nano physics ➤ Transistor biasing. 	<ul style="list-style-type: none"> ➤ Hartsman dispersion formula ➤ Calibration of bridge by using cray foster bridge. 	<ul style="list-style-type: none"> ➤ Study of JFET.
May	<ul style="list-style-type: none"> ➤ Nuclear physics. ➤ Particle accelerator 	<ul style="list-style-type: none"> ➤ Transistor biasing ➤ Operational amp 	<ul style="list-style-type: none"> ➤ H by photocell. 	<ul style="list-style-type: none"> ➤ Study of hartly oscillator. ➤ Study of absorption spectra.
May	<ul style="list-style-type: none"> ➤ Particle accelerator. 	<ul style="list-style-type: none"> ➤ Operational amplifier 	<ul style="list-style-type: none"> ➤ Constant B.G 	<ul style="list-style-type: none"> ➤ Study of LCR.
	Exam	Exam	Exam	Exam



Name of Teacher: Madan Nagre

Art's ,Commerce and Science College, Ambad Dis. Jalna.

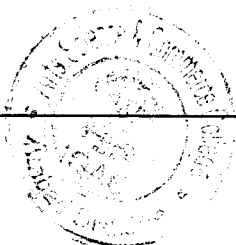
Class: B.Sc (S.Y)

Department: Physics

Annual Teaching Plan year 2021-22

Semester: III

Month	Paper-IX (9) [theory]	Paper-X (10) [theory]	Paper-XI(11) [practical]	Paper-XII (12) [practical]
Oct	<ul style="list-style-type: none"> ➤ Vector algebra. 			
Nov	<ul style="list-style-type: none"> ➤ Vector algebra. ➤ Differentiation. 	<ul style="list-style-type: none"> ➤ Photoelectric effect. 	<ul style="list-style-type: none"> ➤ RP of telescope. ➤ Thermal conductivity probe method. 	<ul style="list-style-type: none"> ➤ Owens bridge ➤ Study of CRO.
Dec	<ul style="list-style-type: none"> ➤ Differentiation. 	<ul style="list-style-type: none"> ➤ Photoelectric effect. ➤ X-ray 	<ul style="list-style-type: none"> ➤ Id curve by spectrometer. ➤ Wavelength by newtons ring. ➤ Determination of B_h and B_v. 	<ul style="list-style-type: none"> ➤ Viscosity of liquid. ➤ Steafan's constant.
Jan	<ul style="list-style-type: none"> ➤ Statistical mechanics. ➤ Maxwell boltzman statics 	<ul style="list-style-type: none"> ➤ Basic principle of laser. ➤ Types of laser. 	<ul style="list-style-type: none"> ➤ IV charecteristics of solar cell. ➤ High resistance leakage method. 	<ul style="list-style-type: none"> ➤ Divergence of laser beam. ➤ Carry foster bridge.
Jan	<ul style="list-style-type: none"> ➤ Maxwell boltzman statics 	<ul style="list-style-type: none"> ➤ Types of laser. 	<ul style="list-style-type: none"> ➤ PI filter 	<ul style="list-style-type: none"> ➤ Diffraction due to cylindrical obstacle.



Name of Teacher: Madan Nagre

Art's ,Commerce and Science College, Ambad Dis. Jalna.

Class: B.Sc (S.Y)

Department: Physics

Annual Teaching Plan year 2021-22

Semester: IV

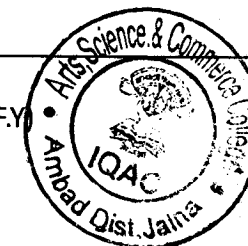
Month	Paper-XIII (13) [theory]	Paper-XIV (14) [theory]	Paper-XV (15) [practical]	Paper-XVI (16) [practical]
Feb	Exam	exam	exam	exam
Mar	<ul style="list-style-type: none"> ➤ Geometrical optics. ➤ Resolving power of optical instrument. 	<ul style="list-style-type: none"> ➤ Time varying field. ➤ Test. 	<ul style="list-style-type: none"> ➤ Coefficient of viscosity. ➤ e/m Thomson method. 	<ul style="list-style-type: none"> ➤ Searle's viscometer ➤ Find sum and series by "C"
April	<ul style="list-style-type: none"> ➤ Interference. ➤ Test. 	<ul style="list-style-type: none"> ➤ Time varying field. ➤ Electromagnetic field. ➤ Theory of relativity. 	<ul style="list-style-type: none"> ➤ Thermocouple experiment. ➤ Gaussiu curve. 	<ul style="list-style-type: none"> ➤ Rydberge constant. ➤ Study of laser.
May	<ul style="list-style-type: none"> ➤ Diffraction. ➤ Test. 	<ul style="list-style-type: none"> ➤ Relativistics transformation ➤ Theory of relativity. 	<ul style="list-style-type: none"> ➤ Convert given no. in to binary and vice versa. 	<ul style="list-style-type: none"> ➤ Mutual inductance. ➤ Carry foster bridge.
May	<ul style="list-style-type: none"> ➤ Diffraction. ➤ Test. 	<ul style="list-style-type: none"> ➤ Theory of relativity. ➤ Test. 	<ul style="list-style-type: none"> ➤ Sine and cosine series. ➤ Test. 	<ul style="list-style-type: none"> ➤ Owne's bridge.
Feb	exam	exam	Exam	exam

Matsyodari Shikshan Sanstha's

Name of Teacher: Madan Nagre

Art's ,Commerce and Science College, Ambad Dis. Jalna.

Class: B.Sc (F.Y)



Department: Physics

Annual Teaching Plan year 2020-21

Semester: I

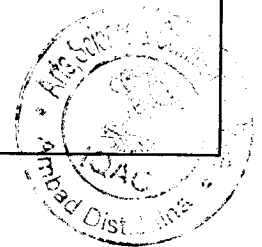
Month	Paper-I (1) [theory]	Paper-II(2) [theory]	Paper-III(3) [practical]	Paper-IV (4) [practical]
Oct				
Nov	<ul style="list-style-type: none"> ➤ Gravitation ➤ Moment of inertia. 	<ul style="list-style-type: none"> ➤ Real gases. 	<ul style="list-style-type: none"> ➤ Keters pendulum ➤ Y by bending of beam. 	<ul style="list-style-type: none"> ➤ Poiseuille's method. ➤ Lee's disc method.
Dec	<ul style="list-style-type: none"> ➤ Moment of inertia. 	<ul style="list-style-type: none"> ➤ Real gases ➤ Thermometry. 	<ul style="list-style-type: none"> ➤ Y by cantilever. ➤ M .I of flywheel. 	<ul style="list-style-type: none"> ➤ Thermal conductivity. ➤ Thermo emf.
Jan	<ul style="list-style-type: none"> ➤ Elasticity ➤ Kinematics of moving fluid. 	<ul style="list-style-type: none"> ➤ Thermodynamics. ➤ Black body radiation. 	<ul style="list-style-type: none"> ➤ S.T by jeagers method. 	<ul style="list-style-type: none"> ➤ J by callenders method.
Jan	<ul style="list-style-type: none"> ➤ Kinematics of moving fluid. 	<ul style="list-style-type: none"> >black body radiation. 	<ul style="list-style-type: none"> > y by flat spiral spring. 	<ul style="list-style-type: none"> > Y by searles method.

Matsyodari Shikshan Sanstha's

Name of Teacher: Madan Nagre

Art's ,Commerce and Science College, Ambad Dis. Jalna.

Class: B.Sc (FY)



Department: Physics

Annual Teaching Plan year 2020-21

Semester: II

Month	Paper- V (5) [theory]	Paper-VI (6) [theory]	Paper-VII(7) [practical]	Paper-VIII (8) [practical]
Feb	Exam	exam	Exam	exam
Mar	<ul style="list-style-type: none"> ➤ Electrostatics ➤ Dielectrics. 	<ul style="list-style-type: none"> ➤ Free oscillation and damped oscillation. 	<ul style="list-style-type: none"> ➤ Study of temperature. ➤ Carry foster bridge. 	<ul style="list-style-type: none"> ➤ Velocity of sound
April	<ul style="list-style-type: none"> > Electricity > test. 	<ul style="list-style-type: none"> > Forces oscillation. > Wave motion. 	<ul style="list-style-type: none"> > B.G for capacity. > field along circular coil. 	<ul style="list-style-type: none"> > I-H curve
May	<ul style="list-style-type: none"> ➤ Magnetostatics. 	<ul style="list-style-type: none"> ➤ Wave motion ➤ Sound. 	<ul style="list-style-type: none"> ➤ Velocity of sound. 	<ul style="list-style-type: none"> ➤ Dispersion power of prism. ➤ RC constant.
May	<ul style="list-style-type: none"> ➤ Magnetostatics. 	<ul style="list-style-type: none"> ➤ Sound. 	Comparison of capacitance.	<ul style="list-style-type: none"> ➤ Find even odd number.

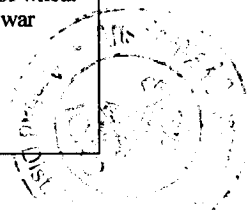



Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
Annual Teaching Plan (Year: 2021-2022)

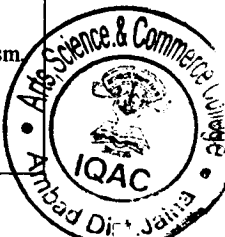
Department of Botany

Name: Dr. D. S. Ghogare

MONTH	Class: FY Paper: II (TH) Semester: I	Class: FY Paper: IV (PR) Semester: I	Class: SY Paper: IX (TH) Semester: III	Class: SY Paper: XI (PR) Semester: III	Class: TY Paper: XVII (TH) Semester: V	Class: TY Paper: XIX (PR) Semester: V
OCT 21	<p>Morphology of Angiosperms Unit – 1 Basic body plan of flowering plant, modular type of growth, diversity of plant forms: Herbs, Shrubs, Trees, Climbers; annuals, biennials and perennials</p> <p>Morphology of Angiosperms Unit – 1 Morphology of vegetative organs: Root: Characteristics, functions, regions of root, types – tap and adventitious, modification of root for storage, mechanical support (stilt root) and vital functions (Pneumatophore). Stem: Characteristics, functions, modification – underground, sub aerial and aerial</p>	<p>Morphology of Angiosperms Study of the following with the help of temporary mountings, permanent slides, charts, models, specimens and bio visual aids. *Study of root and its modifications: a) Tap root b) Adventitious root c) Storage roots d) Stilt root e) Respiratory root.</p>	<p>Taxonomy of Angiosperms Unit – 1 1. Salient features, origin and evolution of Angiosperms Taxonomy of Angiosperms Unit – 1 2. Bentham and Hooker's system of classification up to series level, its merits and demerits. 3. Taxonomy in relation to anatomy, embryology, palynology, ecology and cytology 4. Concept of Binomial Nomenclature and its advantages 5. Concept of genus, species and epithet. 6. Herbaria and Botanical Gardens. Unit:2 Study of the following families: systematic position, salient features, floral formula, floral diagram, common examples and their economic importance 1. Annonaceae</p>	<p>Taxonomy of Angiosperms Study of locally available plants of the following families: Annonaceae</p>	<p>Plant Pathology Unit-1 Fundamentals of plant pathology: 1. Plant pathology – history, scope, losses due to pathogens, importance and need to study plant pathology 2. Classification of plant diseases on the basis of symptoms and causal organisms – animate and inanimate</p>	<p>Plant Pathology 1. Study of Koch's postulates – isolation, inoculation and disease development 2. Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management</p>
NOV 21	<p>Morphology of vegetative organs: Leaf: Parts of typical leaf, phyllotaxy, types (simple and compound), diversity in shape and size, venation and modifications of leaf. Morphology of reproductive organs: Inflorescence: Racemose,</p>	<p>*Study of stem and its modifications: a) Underground stem b) Sub aerial stem c) Aerial Stem Study of leaf and its diversity: a) Types of leaf (Simple, Compound) b) Shape and size</p>	<p>Study of the following families: systematic position, salient features, floral formula, floral diagram, common examples and their economic importance ii. Malvaceae iii. Leguminosae Fabaceae (Papilionaceae) Caesalpinaceae Mimosaceae</p>	<p>Study of locally available plants of the following families: ii. Malvaceae iii. Leguminosae Fabaceae (Papilionaceae) Caesalpinaceae Mimosaceae</p>	<p>3. Plant pathological institutes – IARI (Indian Agricultural Research Institute), ICRI (International Crop Research Institute for Semi Arid Tropics) 4. Seed pathology – concept and importance of seed pathology, seed borne</p>	<p>1) Cereals: a. Black stem rust of wheat b. Grain smut of jowar c. Ergot of bajra</p>



	cymose and special types.	c) Venation d) Phyllotaxy e) Modifications			pathogens, methods to study seed borne pathogens 5. Study of air borne pathogens: methods and applications 6. Field and laboratory diagnosis of plant disease - Koch's postulates Unit-2 Plant diseases: Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management: 1) Cereals: a. Black stem rust of wheat b. Grain smut of jowar c. Ergot of bajra	
DEC 21	Flower: Definition, parts of typical flower, forms of thalamus, androphore, gynophore, gynandrophore, insertion of floral whorls on thalamus (hypogyny, perigyny and epigyny), structure, function and modification of calyx, corolla, androecium, gynoecium, aestivation and placentation.	Study of inflorescence: a) Racemose b) Cymose c) Special Study of flowers: a) Typical flower (<i>Hibiscus / Datura</i>) b) Hypogynous, Perigynous and Epigynous c) Aestivation d) Forms of corolla – cruciform, papilionaceous, infundibuliform and bilabiate e) Parts of typical stamen, adhesion and cohesion. f) Parts of typical carpel and placentation	Study of the following families: systematic position, salient features, floral formula, floral diagram, common examples and their economic importance Apocynaceae Solanaceae Acanthaceae Lamiaceae (Labiatae) Nyctaginaceae	Study of locally available plants of the following families: Apocynaceae Solanaceae Acanthaceae Lamiaceae (Labiatae) Nyctaginaceae	Plant diseases: Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management: 2) Pulses: a. Wilt of pigeon pea b. Yellow vein mosaic of bean 3) Vegetables: a. Late blight of potato b. Little leaf of brinjal c. Black rot of onion (<i>Aspergillus</i>) 4) Oil seeds: a. Tikka disease of groundnut b. Damping off of mustard	2. Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management 2) Pulses: a. Wilt of pigeon pea b. Yellow vein mosaic of bean 3) Vegetables: a. Late blight of potato b. Little leaf of brinjal c. Black rot of onion (<i>Aspergillus</i>) 4) Oil seeds: a. Tikka disease of groundnut b. Damping off of mustard
JAN 21	Fruit: Types of fruits Fruit and Seed dispersal strategies.	Study of flowers with respect to pollination mechanism: <i>Calotropis, Ocimum, Salvia, Helianthus, Ficus, Clitoria.</i> Study of fruits: *Simple: legume, capsule,	Study of the following families: systematic position, salient features, floral formula, floral diagram, common examples and their economic importance Liliaceae Poaceae (Gramineae)	Study of locally available plants of the following families: Liliaceae Poaceae (Gramineae)	Plant diseases: Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management: 5) Cash crops:	2. Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management 5) Cash crops: a. Grassy shoot of



		caryopsis, achene, drupe, berry. *Aggregate: an etaerio of berries, an etaerio of follicles *Composite fruit: sorosis, syconus			a. Grassy shoot of sugarcane b. Downy mildew of grapes c. Angular leaf spot of cotton d. Citrus canker 6.Ornamentals: a. Powdery mildew of rose	sugarcane b. Downy mildew of grapes c. Angular leaf spot of cotton d. Citrus canker 6.Ornamentals: a. Powdery mildew of rose
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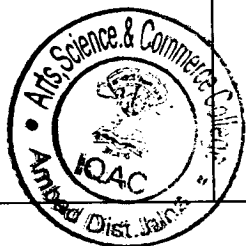
Name: Dr. D. S. Ghogare

MONTH	Class: FY	Class: FY	Class: SY	Class: SY	Class: TY	Class: TY
	Paper: VI (TH)	Paper: VIII(PR)	Paper: XIV(TH)	Paper: XVI (PR)	Paper: XXI (TH)	Paper: XXIII (PR)
	Semester: II	Semester: II	Semester: IV	Semester: IV	Semester: VI	Semester: VI
MAR 22	Histology, Anatomy and Embryology Unit – 1 Histology: a) Types of tissue: i. Meristematic tissue – Meristem, structure and types based on origin and position		Gymnosperms and Utilization of Plants Unit – 1 Gymnosperms: 1. Salient features, classification as per Sporne 1965, economic importance Geological time scale, fossilization, types of fossils <i>Lyginopteris</i> , fossil fuels 3. Contributions of Prof. Birbal Sahani	Gymnosperms and Utilization of Plants Gymnosperms: a) <i>Cycas</i> i. Habit, young leaf, bulbils, male cone, microsporophyll, megasporophyll, pollen grains, mature seed.	Microbiology and Disease Management Unit – 1 1. Microbiology Microorganisms in biological world, their classification and features of different groups 2. Microbial techniques: a. Microscopy – simple, compound and electron microscope b. Micrometry – Principle, working and uses c. Staining – common stains used in pathology, their preparation and significance, (cotton blue and Gram's Stain) d. Sterilization of glassware's and media	6. Principle and working of autoclave, laminar air flow, Tilak air sampler 7. Use of aerobiological techniques to study fungal spora (gravity slide method, Tilak air sampler) 8. Calibration of microscope and measurement of fungal spores 15. Preparation of stains and mounting media - cotton blue, lacto phenol and gram stain.
APR 22	Histology, Anatomy and Embryology Unit – 1 Histology: ii. Permanent tissues: Simple, Complex and Secretary iii. Epidermal tissues: Trichomes and Stomata	Histology, Anatomy and Embryology Unit – 1 Histology: 1. Meristem: root apex and shoot apex 2. Permanent tissues – simple, complex and secretory 3. Epidermal tissues: trichomes and stomata	4. Study of morphology, anatomy, reproduction (excluding developmental stages) and graphical representation of life cycle of the following types: a) Cycadales – <i>Cycas</i> b) Coniferales – <i>Pinus</i>	a) <i>Cycas</i> ii. Study through permanent slides-Normal root (T.S.). Stem (T.S.), Ovule (L.S.) iii. Study through hand section-Coralloid root (T.S.), Rachis (T.S.), Leaflet (L.S.) b) <i>Pinus</i> i. Habit, long and dwarf shoot, scale leaves, foliage leaves, male cone, female cone, pollengrains (W.M.), winged seed.	3. Culture media for isolating plant pathogen: Industrial application of microorganisms - organic acids, alcohol, milk products, antibiotics and bio-pesticides Unit:2 Disease management: 1. Preventive methods: field sanitation, use of clean planting material, crop rotation, trap crops, time of sowing, planting distance and tillage 2. Control methods: a. Seed	9. Sketching of fungal spore by camera lucida technique 10. Detection of organic acids from healthy and infected leaves by circular paper Chromatography 11. Detection of Amino acids from healthy and infected leaves by circular paper chromatography 13. Study of fungi from locally available seed



				ii. Study through hand sections and permanent slides Root (T.S.), Stem (T.S.) Needle (T.S.) iii. Study through permanent slide - T.L.S. & R.L.S. of stem, L.S. of male cone, L.S. of female cone	treatment: concept, objective, traditional and modern methods of seed treatment b. Soil sterilization: concept, objectives and methods	samples 14. Preparation of sterile media - nutrient agar, potato dextrose agar
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	<p>Histology: b) Histological organization of root and shoot apices c) Various theories of cellular organization</p> <p>Unit – 2</p> <p>Anatomy: a) Primary structure of root, stem and leaf of Monocot (Maize) and Dicot (Sunflower) b) Secondary growth in root and stem of Dicot (Sunflower)</p>	<p>Anatomy: 1. Anatomy of young dicot (Sunflower) and monocot (Maize) root. (Double stained permanent slide preparation) 2. Anatomy of young dicot (Sunflower) and monocot (Maize) stem. (Double stained permanent slide preparation) 3. Anatomy of dicot (Sunflower) and monocot (Maize) leaf. (Double stained permanent slide preparation)</p>	<p>Unit:2</p> <p>Utilization of Plants: 1. Domestication of plants and their centers of origin 2. History, origin, cultivation, harvesting, improved varieties and economic importance of the following plants: i. Food plants – Wheat, Jowar ii. Sugar – Sugarcane iii. Fibers -Cotton, Jute iv. Vegetable oils – Groundnut, Sunflower</p>	<p>Palaeobotany: a) Types of fossils (Specimens) b) <i>Lygnopteris</i> (Specimen / Permanent slide)</p> <p>Utilization of plants : a) Food plants – Study of the morphology, structure, and histochemical tests of food storing tissue in Jowar & Wheat. b) Histochemical test of lignin and cellulose c) Vegetable oils – hand section of Groundnut & Sunflower Seed and staining of oil droplets by Sudan III.</p>	<p>Disease management: c. Fungicides: Definition, classification and ideal characteristics of fungicides, study of fungicides with respect to active ingredients, formulations, methods of application, mode of action and uses i. Sulphur fungicides – Inorganic – Wettable sulphur, Organic – Thiram ii. Copper fungicides iii. Mercuric chloride – Agrosan – GN iv. Heterocyclic nitrogenous compounds – Captan v. Benzene compounds – Dexon vi. Antibiotics – Streptomycin and Aureofungin vii. Systemic – Bavistin and Vitavax d. Pesticides: Nicotin, Neem and pyrethrum e. Rhodenticides – Zinc phosphoid f. Nematicides- Nemagon, Propoxar g. Weedicides- 2,4-D h. Biological control- definition, need, examples and role Plant quarantine</p>	<p>1. Study of fungicides as per theory syllabus 2. Preparation of Bordeaux mixture, burgundy mixture and Bordeaux paste 3. Study of insecticides with respect to active ingredient, colour code, formulation, mode of action, antidote and uses 4. Study of <i>Trichoderma</i> culture</p>
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MAY 22	<p>Anatomy: c) Wood anatomy: Growth rings, heart wood and sap wood d) Periderm: Origin, structure and functions. Unit – 3 Embryology: a) Structure of anther, microsporogenesis and development of male gametophyte b) Structure and types of ovule, megasporogenesis and development of female gametophyte (Polygonum type). c) Pollination -Mechanism, types and agencies. d) Double fertilization and its significance d) Double fertilization and its significance Embryology: e) Development of Dicot embryo (Crucifer type). f) Structure, development and types of endosperm. g) Structure of Dicot and Monocot seed.</p>	<p>Embryology: 1. Study of T.S. of anther 2. Structure of ovule (anatropous), types of ovules 3. Study of Dicot and Monocot seed (embryo) Field note book and Tour report. Collection of specimens</p>	<p>2. History, origin, cultivation, harvesting, improved varieties and economic importance of the following plants: v. Beverages – Tea, Coffee 3. Botanical name, family name and economic importance of the following plants: i. Medicinal plants – <i>Aloe vera</i>, <i>Withania somnifera</i>, <i>Curcuma longa</i>, <i>Vitex negundo</i> ii. Timber and Gum – Teak, Neem, Babul, Sisham iii. Cosmetics and Perfumes – Rose, Mogara, Tuberose iv. Spices – Clove, Black pepper, Cumin, Coriander, Cinnamon</p>	<p>d) Study of the sources of Timber, Gum, Medicinal plants, Cosmetics and Perfumes e) Study of Black pepper, Clove, Cinnamon, Cumin, Coriander f) Field notebook, specimen collection, and tour report.</p>	<p>3. Control measures and environment: pollution due to chemicals, residual effects, toxicity, safe measures, colour code, antidote, symptoms of poisoning, precautions in using pesticides 4. Pesticide application equipments: principle and working –pneumatic air pump knapsack sprayer, mist blower and duster, types of nozzles 5. Plant clinic: Concept, objective and need 6. Recent techniques in plant pathology: Genetically modified organisms (GMO's), B.T. Cotton, Pheromones.</p>	<p>5. Study of plant protection equipments –pneumatic air pump, knapsack sprayer, mist blower cum duster 12. Study of pathogens in fruits from local market</p>
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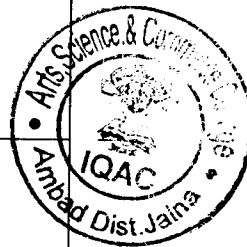
Autty
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Arts, Science & Commerce College, Ambad Dist. Jalna

Annual Teaching Plan (Year: 2021-2022)

Month	Class: B.Sc F.Y	Class: B.Sc S.Y	Class: B.Sc T.Y	E-COMMERCE
	Paper: Programming in C	Paper: DBMS Using Sql	Paper: Ethics and Cyber Law OR E-Commerce	
	Semester: II	Semester: IV	Semester: VI	
Mar-2022	Introduction • An Overview of C, History of C language, • C as a Structured Language, Features of C. • Basic Elements & Operators • Character set, C Token, Identifier & Keywords, Variables • Constant and its types. Integer constant, floating point constant, character constant, string constants. • Operators: Arithmetic, Relational, Logical, Unary operators: Increment & decrement Assignment and Conditional operator. • Precedence & Associativity of Operators	Basic concept: Data definition ,types of data,Record and file,file based system and processing database application ,purpose of database system Abstraction and data ,integration of 3 level architecture proposal for dbms,Component of dbms: users,facilities and structure ,Advantages and disadvantages of dbms. Data modeling and design:Data association - entities,Attributes,association,Relationship among entities,Representation of association & Relationships.	Basic Concepts of Technology and Law, Understanding the Technology of Internet, Scope of Cyber Laws, Cyber Jurisprudence. Law of Digital Contracts The Essence of Digital Contracts.	Introduction, IT and business, E-commerce: Concepts Electronic Communication, PCs and Networking, E-mail, Internet and intranets. EDI to E-commerce, EDI, UN/EDIFACT
April-2022	Data Types • Data Types: int, char, float, double. Declaration & Initialization. • Type modifiers: long, short, signed and unsigned . C Program & I/O statements • Structure of C Program, Compilation & Execution of C program I/O: Introduction, Formatted Input/Output function: scanf & printf, Escape sequence characters. • Library functions: General used & Mathematical.	Data model :importance of data model,Types of data model:Relational,ER Model,semi structure ,object oriented,network and hierarchical model, The Advantages and Disadvantages of model. Entity relationship data model:Entity ,entity set,Types of entity, strong and weak entity,Representation attributes,Types of attributes, Representation relationship:binary and ternary Representation mapping cardinality,entity relationship design issue	The System of Digital Signatures. The Role and Function of Certifying Authorities. The Science of Cryptography	Concerns for E-commerce Growth, Internet bandwidth, Technical issues, Security issues. India E-commerce Readiness, Legal issues, Getting started.
May-2021	Control and Iterative Statements : • Simple if, nested if, if-else, else if	Relational data model:Basic structure of relational data model ,database schema constraints:integrity rule 1 and 2	E-Governance, Cyber Crimes and Cyber Laws. Introduction to Intellectual Property.	Security Technologies: Encryption,



	<p>ladder • Switch-case statement • The conditional expression (? : operator) • while and do-while loop, and for loop • break & continue statement, goto statement . Arrays: • Introduction, Declaration and initialization Accessing array elements, Memory representation of array. • One dimension and multidimensional arrays, character array, Introduction to string</p>	<p>Normal form, anomalies, functional dependency, dependency diagram, 1 normal form, 2 normal form, 3 normal form, conversion from universal to 1NF, 2NF, 3NF AND 2NF, 3NF</p>		<p>Symmetric key Encryption, Public key encryption, Public key encryption using digital Signatures. Hashing techniques, Certification and key Distribution, Cryptographic.</p>
<p>May -2022</p>	<p>Functions • Introduction, types of functions. Defining functions, Arguments, Function prototype, actual parameters and formal parameters, Calling function, Returning function results, Call by value, Recursion.</p>	<p>Relational algebra: basic operation : union, intersection, difference and cartesian product advance operation- projection, selection, join (inner and outer) division example based on above operation . relational algebraic queries. Introduction to oracle: Oracle software : version of oracle, products of oracle, tools of oracle, sql: Logging of sql/iSQL, SQL plus worksheet</p>	<p>Information Technology Act 2000 Cyber Law Issues in E-Business Management. Major issues in Cyber Evidence Management, Cyber Law Compliancy Audit, The Ethics of Computer Security. Relevant Rules Notifications, Information Technology (Amendment) Act, 2008.</p>	<p>The elements of E-commerce. SSL-Secure Socket Layer, SET-Secure Electronic Transaction Protocol for Credit card payment, E-Cash, E-check, Smart cards. Electronic Payment System: Digital Cash, Digital Wallets, Digital checking payment systems, Electronic Billing, Wireless payment systems. Software Package: PGP e-mail encryption software</p>


Teacher

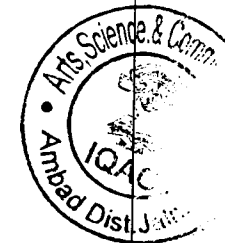

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Arts, Science & Commerce College, Ambad Dist. Jalna

Annual Teaching Plan (Year: 2020-2021)

Month	Class: B.Sc F.Y	Class: B.Sc S.Y	Class: B.Sc T.Y
	Paper: Operating System	Paper: Programming in C++	Paper: Data Communication and Networking
	Semester: II	Semester: IV	Semester: VI
Mar-2022	<p>Introduction to Software:</p> <ul style="list-style-type: none"> Software: Definition, classification and components of software, operating system as the main component of system software; <p>II Operating System Fundamental</p> <ul style="list-style-type: none"> Operating Systems: OS as a resource manager, Structure of OS, Evolution of OS, OS functions, Characteristics of modern OS. <ul style="list-style-type: none"> Types of O.S.: Early systems, simple batch systems, multiprogrammed batch systems, Time sharing system, Personal Computer systems, Parallel systems, Distributed systems, Real time systems <ul style="list-style-type: none"> OS Structures: Components of OS: Process management, Memory management, Storage management, File management, I/O management. 	<p>Procedural Vs Object oriented programming, Basic concept of object oriented programming, Class, Object, Data Abstraction, Encapsulation,, Inheritance, polymorphism, Dynamic binding, Message passing, Benefits and application of oops, History and overview of C++,C++ program structure, Reference variable, Scope Resolution Operator, Member dereferencing Operator, new and delete cin and cout, The endl and setw manipulator.</p>	<p>Introduction Communication System, Components of communication system, Computer network Advantage and applications of computer n/w. point-to-point and multipoint line configuration, LAN, MAN and WAN. Analog and Digital signals, Data Transmission: Parallel and Serial, Synchronous and Asynchronous transmission, Transmission Mode: Simplex, half-duplex and full-duplex. Network Topologies Mesh, Star, Tree, Bus and Ring and Hybrid Topology (Advantages and disadvantages of each)</p>
April-2022	<p>Process Management</p> <ul style="list-style-type: none"> Concept of Process: Process State, Operation on Processes, 	<p>Function in C++: Function prototype ,Call BY Reference(Using reference variable),Return by reference, Inline function ,Default Argument, Const Argument.</p>	<p>Transmission media Guided and unguided media, Twisted-pair, UTP and STP cable, coaxial cable, Optical Fiber cable, Radio waves, Microwaves, Satellite</p>



	<p>thread.</p> <ul style="list-style-type: none"> • CPU Scheduling : Types of Schedulers, Criteria for scheduling, Scheduling Algorithms. • Process Synchronization: Need for synchronization, Critical Section, Hardware Synchronization, Semaphores, Monitors, Problem of synchronization. • Deadlocks: Concept of Deadlock, Deadlock Modeling, Methods for Handling Deadlock 	<p>Function Overloading: Different number and kind of Argument</p>	<p>Communication (<i>Transmission characteristics and advantages of each type</i>)</p>
<p>May-2022</p>	<p>Storage Management</p> <ul style="list-style-type: none"> • Memory Management: Address Binding, Logical Vs. Physical Address space, Memory Allocation, Paging, Segmentation, Segmentation and paging of Intel Pentium. • Virtual Memory: Demand Paging, Page replacement Algorithms (FIFO, Optimal, LRU), Virtual Memory in windowsXp. • File System Interface: Files, File Access, Directory Structure, Protection • Implementation of File System: Allocation Methods, Free space Management 	<p>Objects and Classes: Specify Class, private and public, defining member function, Objects as data types, Memory Allocation of Objects, static data members and member function, Array of Objects, Objects as function Arguments, Friend function and characteristics.</p>	<p>Modulation & Multiplexing Concept of modulation and demodulation, Digital-to-analog conversion, Amplitude Shift Keying (ASK)/AM, Frequency Shift Keying (FSK)/FM, Phase Shift keying (PSK)/PM.</p>

<p>May -2022</p>	<p>I/O System</p> <ul style="list-style-type: none"> • I/O System Components : I/O Devices , I/O Hardware , Application I/O interface • Secondary Storage Structure : Disk fundamental, Disk Scheduling , Disk Management 	<p>Constructor and Destructor: Introduction, default and parameterized constructor, Multiple constructor in class, copy constructor, Destructor.</p> <p>Operator Overloading: Overloading Unary Operator, Rules of operator overloading, Overloading without friend function and using friend function, Overloading Binary operator such as Arithmetic and relational operator, concatenating, String And Comparison Operator.</p>	<p>The Mobile Telephone System: First Generation(1G), Second Generation(2G), Third Generation(3G), Internet over cable, Spectrum Allocation, cable Modem, ADSL Versus Cable.</p>
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Roham
Teacher

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Principal



Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna

Annual Teaching Plan (Year: 2021-2022)

Department of Computer Science

Month	Class: B.Sc F.Y	Class: B.Sc S.Y	Class: B.Sc T.Y	VB.Net
	Paper: Computer Fundamentals	Paper: Data structure	Paper: Web Designing Or	
	Semester: I	Semester: III	Semester: V	Semester: V
Oct-2021	<p>Fundamentals of Computer System</p> <ul style="list-style-type: none"> • Introduction. • Characteristics & features of Computers. • Components of Computers. • Organization of Computer. Data Representation • Introduction to Number System Decimal Number System Binary Number System o Hexadecimal Number System • Conversion within Numbers Systems • Arithmetic Operation on Binary and Hexadecimal Numbers • Normalized Floating point Number • Representation of Character in Computers • Representation of Integer Numbers • Representation of Fraction Numbers • Hexadecimal Representation of Number 	<p>Introduction to data structure: Introduction, basic terminology: Data items, fields, records, files, entity, attributes, data organization and data structure.</p>	<p>Introducing HTML5 Understanding HTML, XHTML, and HTML5, Introducing semantic markup, Syntax, Attributes, Working with elements, Creating an HTML document Embedding content, Embedding HTML by using inline frames, Working with hyperlinks, Adding images to your HTML document, Embedding plug-in content</p> <p>Advances of HTML5 HTML5 Layout container Format using <div> element Working with Tables: creating regular and irregular tables, heading, columns and rows, captions, header, footer.</p>	<p>Introduction: Introduction to .NET and .NET Framework, Difference between CUI & GUI, Event Driven Programming, the VB IDE, Operators, Conditional statements and looping statements. Sub Procedure, functions and exception handling</p>
Nov-2021	<p>Algorithm and Flowcharts</p> <ul style="list-style-type: none"> • Algorithm Definition Characteristics Advantages and disadvantages Examples • Flowchart Definition Define symbols of flowchart Advantages and disadvantages Examples 	<p>Array: Representation of a linear array, Traversing, insertion, deletion, sorting and searching algorithm, multidimensional array 2D and 3D concept, Record and record structure, representation in memory.</p>	<p>Introducing JavaScript Basic of JavaScript JavaScript Variables, Operators & Its Precedence, Special Values, Predefined Built-In functions, Functions Declaration & Call String Functions Conditions and looping structure, Inline JavaScript & External JavaScript.</p>	<p>Windows Forms : General Properties, Events handling events like mouse, keyboard, Types of forms MDI, adding removing controls at run time</p>



Dec-2021	<p>Computer Generation & Classification • Generation of Computers : First to Fifth • Classification of Computers • Distributed & Parallel computers . Computer Languages • Types of Programming Languages Machine Languages Assembly Languages High Level Languages • Assembler, Linker, Loader, Interpreter & Compiler</p> <p>Computer Memory • Memory Cell & Organization • Types of Memory (Primary And Secondary) RAM ROM PROM EPROM Secondary Storage Devices (FD, CD, HD, Pen drive, DVD, Tape Drive, DAT)</p>	<p>Linked List:concept of linked list,representation of linked list in memory,Traversing of linked list, searching the linked list: sorted and unsorted,insertion and deletion in linked list, Header linked list & two way list.</p>	<p>Advances in JavaScript Object in JavaScript, Concept of array, how to use it in JavaScript, types of an array, array methods DOM Concept in JavaScript, DOM Objects, DOM Search Methods Event handling in JavaScript: Capturing & Bubbling, Subscribing, Unsubscribing and Cancelling Event, Windows Event, Keyboard and Mouse Events.</p>	<p>Controls : The control class, Text Box, Rich Text Box, Label, Buttons, Checkbox, Radio Button, Panels, Group Boxes, List Box, Combo Box, Picture Box, Scroll Bars, Splitters, Track Bars, Pickers, Timer.</p>
Jan - 2022	<p>I/O Devices • Input Devices : Touch screen , OMR, OBR , OCR, Light pen • Output Devices : Scanners, Digitizers, Plotters, LCD Plasma Display, Printers . Processor • Structure of Instruction • Description of Processor • Processor Features • RISC & CISC . Operating system Concepts • Why Operating System • Functions of Operating System • Types of Operating System Batch O.S. Multiprogramming O.S. Time Sharing O.S Personal Computers O.S. Network O.S.</p>	<p>Stack queue and recursion: stack,operation,Array representation of stack,linked representation of stack,arithmetic expression POLISH & POSTFIX ,application of stack:Quicksort and Recursion</p> <p>Queue: Representation of queue and link Types of queue:dequeue and priority queue.</p>	<p>Cascading Style Sheet Introduction to CSS3 Defining and Applying a Style, Inline, Embedded and External Style Sheet. Selectors: element, id and class selector, grouping selector, attribute, Specificity and cascading CSS properties: Color, box Model, border, padding, margin, float, clear</p>	<p>Object-Oriented Programming : Class and Object, Class Vs. Object Members, Creating Classes, Objects, Structures, Modules, Constructors, Data Members, Methods, Properties, Event</p>

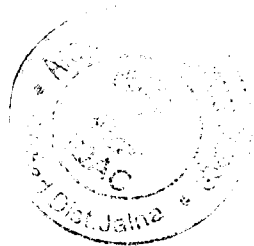



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Annual Teaching Plan (Year: 2021-2022)

Department Of Computer Science

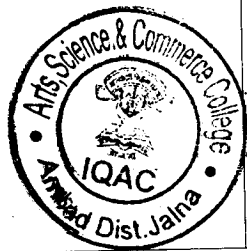
Month	Class: B.sc F.Y	Class: : B.sc S.Y	Class: : B.sc T.Y
	Paper: Digital Electronics	Paper: Advance C Programming	Paper: Software Engineering
	Semester: I	Semester: III	Semester: V
Oct-2021	<p>Number Systems and Arithmetic Decimal Number System & Binary Number System Decimal to Binary conversion(Double-dabble method only)</p> <p>Binary to Decimal Conversion Binary Arithmetic : Binary addition, subtraction, multiplication & division</p> <p>Hexadecimal number system , Hexadecimal to binary, binary to Hexadecimal, Hexadecimal to decimal conversion</p> <p>Hexadecimal arithmetic: Addition, subtraction, multiplication & division</p> <p>Binary subtraction using 1' complement, 2's complement method</p>	<p>1. Structure & Union Structure: Introduction, Declaration and initializing structure, Accessing structure members, Nested structures, Arrays of structure, <i>typedef</i> statement. Unions: Declaration, Difference between structure and union</p> <p>2. Pointers: Introduction, Memory organization. Declaration and initialization of pointers. The pointer operator * and &, De-referencing, Pointer expression and pointer arithmetic, Pointer to an array, Pointer to pointer, Constant pointers</p>	<p>Software and Software Engineering What is Software, Characteristics of software, categories of Software, attributes of WebApps, software Engineering, Software Process, Essence Software Engineering Practice, General Principles, Software Myths</p>



<p>Nov-2021</p>	<p>Boolean Algebra and Logic Gates Postulates of Boolean Algebra Theorems of Boolean Algebra: Complementation , commutative, AND, OR, Associative,Distributive,Absorption laws , De morgan's theorems</p> <p>Reducing Boolean expressions Logic Gates : AND, OR, NOT, Ex-OR, Ex- NOR NAND as Universal building block Logic diagrams of Boolean expressions Boolean expressions for logic diagrams</p>	<p>Functions & Pointers: Call by reference, Passing array and structure to function, functions returning pointers, character pointer, Two dimensional array of string, array of pointer to string, passing structure pointer to function, arrow (->) operator.</p> <p>Storage Classes & Preprocessor Directives Storage classes, Scope, visibility and lifetime of variable, block and file scope, auto, extern, static and register storage classes. File inclusion and conditional compiler directives, Macro substitution, #define, #if, #ifdef, #else, #elif, #endif</p>	<p>Software Process and Process Models Software process Model Process Flow, Process Models, Waterfall model, Incremental Process Model, Evolutionary Process Models, Concurrent Models, Specialized Process Models, The Unified Process, Personal and Team Process Models, Product and Process</p>
<p>Dec-2021</p>	<p>Minimization Techniques Introduction , Minterms and Maxterms K-Map, K-map for 2 variables K-map for 3 variables K-map for 4 variables 4 Combinational and Arithmetic Logic Circuits Half Adder & Full Adder Binary parallel Adder</p>	<p>File Handling: Introduction, Opening & closing a file, Input/Output operations on files, text and binary files, getc(), putc() function. File copy program, fprintf() and fscanf(). fread() and fwrite() function. Writing and reading records from binary file, modifying and deleting a record from file, Random access functions fseek(), rewind(), flushall(), remove(), rename()</p>	<p>Agile Introduction to Agility, Agility and the Cost of Change, Agile Process, Agility Principles, Human Factors, Extreme Programming (XP), XP Values, XP Process, Industrial, Critics of XP</p> 

	<p>Half Subtractor, Full Subtractor Adder/Subtractor in 2's complement system BCD to Decimal decoder 2 : 4 demultiplexer 4 line to 1 line multiplexer</p>		
<p>Jan -2022</p>	<p>Flip Flops Introduction : RS FF Clocked RS FF, D FF Triggering, preset and clear JK FF , T FF , Race around condition Master slave FF Counters Introduction : Asynchronous/ ripple counter Modulus Counter , MOD-12 counter Synchronous counter : Synchronous serial & synch parallel counter</p> <p>BCD counter Ring counter Johnson counter Shift Registers Introduction, Buffer register Serial- in serial -out Serial-in parallel-out Parallel-in serial-out, parallel-in parallel-out</p>	<p>Object Oriented Programming: Introduction, Procedural Vs Object Oriented Programming, Basic concepts of Object Oriented Programming, Class, Object, Data Abstraction, Encapsulation, Inheritance, Polymorphism, Dynamic Binding, Message Passing. Benefits and applications of OOP. Object Oriented Programming Languages</p>	<p>Principles That Guide Practice Principles That Guide Process, Principles That Guide Practice, Communication Principles, Planning Principles, Modeling Principles, Construction Principles, Deployment Principles</p>

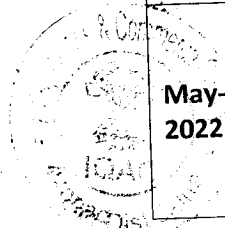


	<p>and erythro diastereomers, meso compounds. • Relative and absolute configuration, sequencerules, D and L and S systems of nomenclature. • Geometric Isomerism - Determination of configuration of geometric isomers. E and Z system of nomenclature, geometric isomerism in oximes and alicyclic compounds.</p>	<p>Helmoltz Function (A) as Thermodynamic Quantities. A and G as criteria for Thermodynamic Equilibrium and Spontaneity, their Advantage over Entropy change. Variation A with P, V and T.</p>	<p>phosphorescence, (Internal conversion, Intersystem crossing), quantum yield, photosensitized reactions.</p>
<p>Jan -2022</p>	<p>IV Alkanes : Methods of formation (Koble reaction, Corey - House reaction and decarboxylation of carboxylic acids) Physical properties and Chemical reactions of alkanes Chlorination, Nitration, Sulphonation, Catalytic oxidation.</p> <p>V Alkenes : Nomenclature of alkenes, methods of formation, mechanisms of dehydration of alcohols and dehydrohalogenation of alkyl halides. The Saytzeff rule, Hofmann elimination, physical properties and relative stabilities of alkenes. Chemical reactions of alkenes - mechanisms involved in hydrogenation, electrophilic and free radical additions, Markownikoff's rule, hydroboration and oxidation with KMnO₄. Polymerization of alkenes</p>	<p>a3) Chemical Equilibrium: Equilibrium Constant and Free Energy. Thermodynamic Derivation of Law of Mass Action. Le Chatelier's Principle. Reaction Isotherm and Reaction Isochore. Clapeyron Equation, Clausius-Clapeyron Equation and its Application.</p>	<p>IV Physical properties and molecular structure Optical activity and its measurement, dipole moment and its measurement by temperature change method, magnetic property and its measurement by Guoy balance method, Applications of optical activity, dipole moment and magnetic property for determination of structure of molecule.</p>
	<p>VI Arenes and Aromaticity: Nomenclature of benzene derivatives. The aryl group. Aromatic nucleus and side chain structure of benzene : molecular formula and Kekule structure. Resonance Structure, MO Picture. Aromaticity : The Huckel rule, aromatic ions Aromatic electrophilic substitution: General Pattern of the mechanism (Nitration, halogenations and Sulphonation) and Friedel Crafts reaction.</p> <p>VII Alkyl and Aryl halides: Polyhalogen Compounds: Chloroform, Carbon tetrachloride. Methods -formation of aryl halides, nuclear and side chain reaction</p>		<p>V Nano Material Introduction to nano-materials Methods of Synthesis - i) High energy ball milling, ii) Physical vapour deposition (PVD) iii) Chemical vapour deposition (CVD) iv) Micro emulsion. Synthesis using micro-organisms and plant extract.</p>

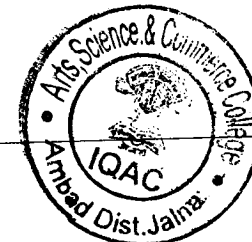
Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna

Annual Teaching Plan (Year: 2021-2022)

Month	Class: B.Sc.F.Y.	Class: B.Sc.S.Y.	Class: B.Sc.T.Y.
	Paper: IV	Paper: VIII	Paper: XVII
	Semester: II	Semester: IV	Semester: VI
Mar-2022		<p>1) Phase Equilibrium: Statement and Meaning of the Terms: <i>Phase, Component</i>, Degree of Freedom, Derivation of Phase Rule Equation. Phase Equilibria of the One Component System: Water System. Phase Equilibria of Two Components System: Solid-Liquid Equilibria, Simple Eutectic Pb-Ag. System Desilverisation of Lead.</p>	<p>1. Heterocyclic Compounds Introduction: Molecular orbital picture and aromatic characteristics of pyrrole, furan, thiophene and pyridine, Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution. Mechanism of nucleophilic substitution reactions in pyridine. Comparison of basicity of pyridine, piperidine and pyrrole. Condensed Heterocycles: Introduction, Preparation of Quinoline (Skraup's Synthesis), Isoquinoline (Bischler Napiralski) and Indole (Fischer indole Synthesis).</p>
Apr-2022	<p>I Mathematical Concepts : Logarithmic relations, curve sketching, linear graphs and calculation of slopes, differentiation of functions like kx^e, x^n, $\sin x$, $\log x$; maxima and minima, partial differentiation.</p>	<p>Solid Solutions: Compound Formation with congruent Melting Point (Mg-Zn) and Incongruent Melting Point (FeCl₃-H₂O) System. Freezing Mixture, Acetone-Dry Ice. Liquid-Liquid Mixture: Raoult's Law and Henry's Law. Ideal and Non-Ideal system. Azeotropes: HCl-H₂O and Ethanol-Water System. Partially Miscible Liquids: Phenol-Water, Trimethyl Amine-Water, Nicotine water System, Lower and Upper consolute Trimethyl Amine Water, Nicotinewater system, Lower and Upper Consolute Temperature. Effect of Impurity on Consolute Temperature.</p>	<p>2. Carbohydrates Definition, Introduction and Classification. Monosaccharides-Interconversion of Glucose and Fructose, chain lengthening, chain shortening of aldoses. Conversion of Glucose into mannose. Determination of open chain structure of glucose & pyranose ring structure of glucose. Mechanism of Mutarotation and Introduction to disaccharides (maltose, sucrose and lactose) and Polysaccharides (Starch and cellulose) without involving structure determination</p>
May-2022	<p>II Gaseous States: Postulates of kinetic theory of gases, kinetic gas equation, Deduction of Gas Laws : Boyles Law, Charles Law, Grahams Law of diffusion, Avogadro's hypothesis, deviation from ideal</p>	<p>2) Electro Chemistry-I Electrical Transport: Conduction in metals and in Electrolyte Solutions. Specific Conductance and equivalent conductance, measurement of equivalent conduction, variation of equivalent and specific conductance with</p>	<p>3. Synthetic Polymers Introduction, Classification based on nature of synthesis (without mechanism) with examples. (Addition and condensation polymers). Properties, uses and synthesis of polyvinyl chloride, polyvinyl acetate, polystyrene,</p>



	<p>behavior, van der Waals equation of state. Critical Phenomena : PV isotherms of real gases.</p> <p>III Chemicals Kinetics and Catalysis: Chemical Kinetics and its scope, rate of reaction, factors influencing the rate of reaction - concentration, temperature, pressure, solvent, light, catalyst concentration dependence of rates. Derivation of rate law and characteristics of simple chemical reactions - zero order, first order, second order, Pseudo order, half life. Effect of temperature on rate of reaction. Arrhenius equation, concept of activation energy. Catalysis : Definition, types, and characteristics of catalysis, homogeneous, heterogeneous catalysis - Enzyme catalysis and its application.</p>	<p>dilution. Numerical problems. Kohlrausch's law and its application. Arrhenius Theory of Electrolyte Dissociation and its limitations. Weak and Strong Electrolytes, Ostwald's Dilution Law, its use and Limitations. Transport Number: Definition, Determination by Hittorf's Method and Moving Boundary Method. Conductometric Titration: Types and its advantages.</p>	<p>polymerization, properties, uses and synthesis of Buna N., Neoprene and silicon rubber.</p>
<p>Jun-2022</p>	<p>IV Liquid State: Intermolecular forces, structure of liquids (a qualitative description). Difference between solids, liquids and gases. Liquid Crystals: Classification, structure of nematic and cholesteric phases V Solid State : Types of solids, Amorphous, crystalline and difference between them, Miller Indices. Laws of crystallography - (i) Law of constancy of interfacial angles (ii) Law of rationality of indices (iii) Law of symmetry. Symmetry elements in crystals. X-ray diffraction by crystals. Derivation of Bragg equation</p>	<p>3) Electrochemistry-II Types of Reversible Electrodes: Gas-Metal Ion, Metal-Metal Ion, Metal-Insoluble salt Anion and Redox Electrodes. Nernst Equation, Derivation of Cell, E.M.F. and single Electrode potential, Standard Hydrogen Electrode, Reference Electrodes, Standard Electrode Potential, Sign Conventions, Electro-Chemical Series and its significance. Electrolytic and Galvanic Cells, Reversible and Irreversible Cells, Conventional Representation of Electro Chemical Cells. E.M.F. of a cell and its measurement, Calculation of Thermodynamic Quantities of Cell Reactions (G, H and K) Definition of pH, pKa-Determination of pH using SHE and Glass Electrode by Potentiometer method. Buffer-Acidic and Basic Buffers, Mechanism of Buffer Action, Henderson-Hasselbalch equation. Corrosion: Dry (Atmospheric) Corrosion and Wet (Electro-Chemical) Corrosion Electrochemical Theory of Corrosion.</p>	<p>4. Synthetic Dyes and Drugs Synthetic Dyes - Definition, colour and constitution (electronic concept) of dye, classification based on chemical constitution, synthesis of methyl orange, Congo red, malachite green, crystal violet, Alizarin and indigo dyes. Synthetic Drugs - Definition, introduction, classification of drugs. Properties of ideal drug. Synthesis of chloramphenicol, paracetamol, phenacetin, sulphaguanidine.</p>

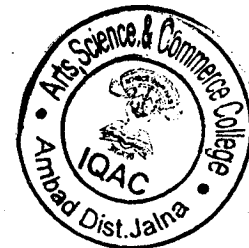


VI Colloidal State :

- Definition of colloids, classification of colloids.
- Solids in liquids (sols) : properties - kinetic, optical and electrical; stability of colloids, protective action. Hardy - Schulze Law.
- Liquids in liquids (emulsions) : types of emulsions, preparation.
- Liquids in Solids (gels) : classification, preparation and properties, general applications of colloids.

Signature

Dr. Simla S.N.

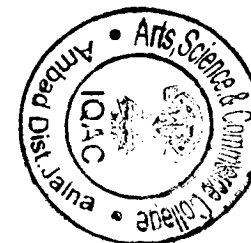


Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
Annual Teaching Plan (Year: 2021-2022)

Department of Botany

Name: Dr. Shaikh F. K.

MONTH	Class: SY	Class: FY	Class: SY	Class: TY
	Paper: X (PR)	Paper: III	Paper: VIII (TH)	Paper: XVIII (C) (PR)
	Semester: III	Semester: I (PR)	Semester: III	Semester: V
	PLANT ECOLOGY :	Diversity Of Cryptogams-I	PLANT ECOLOGY:	PLANT PATHALOGY;
Nov 2021	<p>1. Study of morphological and anatomical adaptations in hydrophytes – <i>Hydrilla</i>, <i>Eichhornia</i>, <i>Typha</i> and <i>Nymphaea</i> .</p> <p>2. Study of morphological and anatomical adaptations in xerophytes -<i>Aloe</i>, <i>Nerium</i>, <i>Casuarina</i>.</p> <p>3. Study of morphological and anatomical adaptations in hydrophytes – <i>Hydrilla</i>, <i>Eichhornia</i>, <i>Typha</i> and <i>Nymphaea</i> .</p> <p>4. Study of morphological and anatomical adaptations in xerophytes -<i>Aloe</i>, <i>Nerium</i>, <i>Casuarina</i>.</p>	<p>Diversity Of Cryptogams – I</p> <p>1. Study of simple and compound microscope</p> <p>2. Virus: Tobacco Mosaic Virus</p> <p>3. Gram staining in bacteria, forms of Bacteria</p>	<p>Unit – 1 Plant and environment A)Climatic factors –</p> <p>a) Light as an ecological factor, global radiation and photo synthetically active radiation .</p> <p>b) Temperature as an ecological factor.</p> <p>c) Water as an ecological factor, physicochemical properties of water.</p>	<p>Unit-1 1.</p> <p>Study of Koch's postulates – isolation, inoculation and disease development 2.Study of the following diseases with respect to symptoms, causal organism, disease cycle and disease management</p> <p>1) Cereals: a. Black stem rust of wheat b. Grain smut of jowar c. Ergot of bajra</p>
Dec 2021	<p>5. Study of morphological adaptations in halophytes -Pneumatophore, Stilt roots.</p> <p>6. Study of morphological and anatomical adaptations in epiphytes.</p> <p>7. Study of vegetation by quadrat method.</p>	<p>Lichens: Form - Crustose, Foliose, Fruticose; <i>Usnea</i></p> <p>a) <i>Nostoc</i></p> <p>b) <i>Chara</i></p>	<p>B) Edaphic factor –</p> <p>Soil formation, soil profile, physicochemical properties of soil, major soil types of India, soil erosion and soil conservation.</p> <p>Unit:2 1. Response of plants to water Morphological, physiological and anatomical response of plants to water:–</p>	<p>2- study following diseases with respect to symptoms causal organisms disease cycle and disease management 2)Pulses: a. Wilt of pigeon pea b. Yellow vein mosaic of bean .</p> <p>3)Vegetables: a. Late blight of potato b. Little leaf of brinjal c. Black rot of onion (<i>Aspergillus</i>)</p>

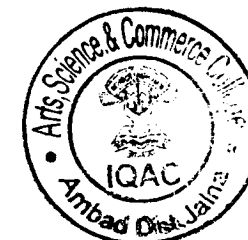


			hydrophytes, xerophytes, plants to water:— hydrophytes, xerophytes, halophytes and epiphytes.	4) Oil seeds: a. Tikka disease of groundnut b. Damping off of mustard
Jan 2022	<p>8. Estimation of Importance Value Index (IVI) of grassland ecosystem on the basis of relative frequency, relative density and relative abundance.</p> <p>9. Determination of water holding capacity of different soils.</p> <p>10. Study of meteorological instruments - Rain gauge, Hygrometer, Barometer.</p>	<p>c) <i>Botrydium</i> d) <i>Sargassum</i> e) <i>Batrachospermum</i> Fungi: a) <i>Albugo</i></p>	<p>Unit:2 1. Response of plants to water Morphological, physiological and anatomical response of plants to water: hydrophytes, xerophytes, halophytes and epiphytes.</p> <p>2. Phytogeography: (Biogeographical regions of India, vegetation types of India.</p>	<p>5) Cash crops: a. Grassy shoot of sugarcane b. Downy mildew of grapes c. Angular leaf spot of cotton d. Citrus canker 6) Ornamentals: Powdery mildew of rose</p>
Feb 2022	<p>11. Determination of percent leaf area injury of different infected leaf samples.</p> <p>12. Estimation of salinity of different water samples.</p> <p>13. Determination of pH of different soils by pH papers/universal indicator/pH meter.</p>	<p>Fungi: b) <i>Mucor</i> c) <i>Eurotium</i> d) <i>Agaricus</i> e) <i>Cercospora</i></p>	<p>Unit: 3 1. Community ecology: Community characteristics -frequency, density, life forms, biological spectrum. 1. Ecosystem: Structure -biotic and abiotic components, food chain, food web, ecological pyramids, energy flow, biogeochemical cycles-nitrogen and phosphorus</p>	<p>7) Weeds: Rust of Euphorbia 8) Trees: Cercospora on Albizzia fruits</p>



Name: Dr. Snaikh F. K.

MONTH	Class: TY	Class: SY	Class: FY	Class: TY
	Paper: XX (C) (TH)	Paper: XIV (PR)	Paper: III (PR)	Paper: XXII (C) (PR)
	Semester: VI	Semester: IV	Semester: II	Semester: VI
Apr 2022	<p>PLANT PHYSIOLOGY :</p> <p>Unit:1 1. Plant water relations: a) Diffusion, osmosis, plasmolysis and imbibition. (02) b) Water absorption and ascent of sap (Transpiration pull theory). (03) c) Transpiration – Definition, types -cuticular, lenticular and stomatal, structure of stomata, mechanism of opening and closing of stomata (starch – sugar hypothesis). (02) 2. Mineral nutrition: a) Macro and microelements: roles and deficiency symptoms of N, P, K, Mg, Ca, Fe, Zn, Bo, Mo. b) Mineral uptake – passive (ion exchange theory) and active (carrier concept). (05) 3. Translocation of solutes: Mass flow hypothesis, protoplasmic streaming theory, Source and sink relationship. (03)</p>	<p>Plant Physiology</p> <ol style="list-style-type: none"> 1. Osmosis by egg membrane and potato osmoscope. 2. Plasmolysis in <i>Tradescantia</i> leaves 3. Effect of different conc. of organic solvents on membrane permeability 4. Determination of water potential of any tuber 	<p>Diversity Of Cryptogams – II</p> <p>Unit – 1</p> <p>Study of specimen of Bryophytes, and Pteridophytes through temporary mounting, permanent slides, field work and biovisual aids.</p> <p>a) Bryophytes:</p> <ol style="list-style-type: none"> i. <i>Marchantia</i> 	<p>(Microbiology and Disease Management</p> <ol style="list-style-type: none"> 1. Study of fungicides as per theory syllabus 2. Preparation of Bordeaux mixture, burgundy mixture and Bordeaux paste.
May 2022	<p>3</p> <p>Unit:2 1. Enzymes : Chemical nature holoenzyme, apoenzyme, prosthetic group, cofactor and coenzyme, properties, nomenclature, classification based on type of reactions, mechanism of enzyme action and methods</p>	<ol style="list-style-type: none"> 5. Detection of mineral elements in plant ash. 6. Digestion of starch by amylase. 7. Detection of enzyme activity : oxidase, peroxidase, catalase and dehydrogenase 13. Isolation of starch. 	<p>b) Pteridophytes:</p> <p><i>Lycopodium, Selaginella Equisetum</i></p> <p>b) Pteridophytes:</p> <p><i>Marsilea</i></p>	<ol style="list-style-type: none"> 3. Study of insecticides with respect to active ingredient, colour code, formulation, mode of action, antidote and uses 4. Study of Trichoderma culture 5. Study of plant protection equipments –pneumatic air pump, knapsack sprayer, mist blower cum duster 6. Principle and working of autoclave, laminar air flow, Tilak air sampler 7. Use of aerobiological techniques to study fungal spora (gravity slide method, Tilak air sampler)



<p>June 2022</p>	<p>2. Growth: Definition, Phases of Growth, Sigmoid growth curve. 3. Growth regulators: Discovery, structure, roles and practical applications of Auxins, Gibberellins, Cytokinin's, Absciscic acid and Ethylene.</p> <p>Unit: 1. Photosynthesis: Definition, ultrastructure of chloroplast, photosynthetic pigments, Light reactions -Hill reaction, red drop and Emerson enhancement effect, two pigment systems (PS I, PS II), photophosphorylation – cyclic and non-cyclic, Z-scheme; Dark reactions -C3, C4 and CAM pathways. 2. Respiration: Definition, Ultrastructure of mitochondria, types of respiration, Glycolysis, TCA Cycle, Electron transport system, alcoholic and lactic acid fermentation.</p>	<p>14. Isolation of pectin. 15. Estimation of total and reducing sugars in fruit juice by Fehling solution</p>		<p>8. Calibration of microscope and measurement of fungal spores. 9. Sketching of fungal spore by camera lucida technique 10. Detection of organic acids from healthy and infected leaves by circular paper chromatography . 11. Detection of Amino acids from healthy and infected leaves by circular paper chromatography.</p>
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Matsyodari Shikshan Sanstha's
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 Annual Teaching Plan (Year: 2021-2022)

Subject: Chemistry

Month	Class: M.Sc.F.Y.	Class: M.Sc.F.Y.	Class: M.Sc.F.Y.	Class: M.Sc.F.Y.
	Semester: I	Semester: I	Semester: I	Semester: I
	Paper: CHE-101	Paper: CHE-102	Paper: CHE-103	Paper: CHE-104
Nov - 2021	Unit-I – Statistical treatment of analytical data	Unit-I & II -Symmetry Concept and Representation of groups	Unit-I- Nature of Bonding in Organic Molecule	Unit-I- Ionic Equilibria And Biological reaction.
Dec- 2021	Unit-II- Basic seperation techniques :Distillation and solvent and Solid Phase extraction Unit-III- Cheomatography	Unit-III- Reaction Machanism of Transition Metal Complexes.	Unit-II Reaction Machanism: Structure and Reactivity.	Unit-II- Chemical Dynamics.
Jan- 2022	Unit-IV- Chromatographic systems (a) Thin layer Chromatography. (b)Liquid-Liquid Partition Chromatography. (c) Column Chromatography. (d) Gel Permeation Chromatography. (e) Ion exchange Chromatography.	Unit-IV- Metal Ligand Equilibria in Solution	Unit-III & IV- Sterio-Chemistry.	Unit-III- Classical Thermodynamics.
Feb - 2022	Unit-V- (a) Gas Chromatography. (b) High Performance Liquid Chromatography.	Unit-V- Inorganic Chemistry In Biological System.	Unit-V Aliphatic Nucleaphilic And Electrophilic Substitution.	Unit-IV- Surface Chemistry. Unit V- Electrochemistry



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Month	Class: M.Sc.F.Y.	Class: M.Sc.F.Y.	Class: M.Sc.F.Y.	Class: M.Sc.F.Y.
	Semester: II	Semester: II	Semester: II	Semester: II
	Paper: CHE-205	Paper: CHE-206	Paper: CHE-207	Paper: CHE-208
Apr-2022	Unit I- General Introduction of Spectral Method of analysis. Microwave Spectroscopy.	Unit-I- Spectroscopic Term Symbols	Unit-I-Aromatic Electrophilic And Nucleophilic Substitutions.	Unit-I-Quantum Chemistry-I.
May-2022	<u>Unit -II- Vibration and Raman Spectroscopy.</u>	Unit-II- Electronic Spectra and Magnetic Properties of Metal Complex.	Unit-II- Addition to Carbon-Carbon Multiple Bond	Unit-II- Quantum Chemistry-II.
Jun-2022	<u>Unit-III- Electronic spectroscopy</u> Atomic Spectroscopy Molecular spectroscopy Photoelectron Spectroscopy.	Unit-III- Chemistry Of Metal Carbonyls. Unit IV- Metal Nitrosyl Compounds.	Unit-III- Addition to Carbon-Hetero Multiple Bond	Unit-III- Phase Rule. Unit IV- Crystallography.
Jul-2022	<u>Unit IV- Ultraviolet-Visible Spectroscopy.</u> <u>Infrared Spectroscopy.</u> Unit-V- Nuclear Magnetic Resonance Spectroscopy.	Unit-V- Theories of Metal-Ligand bonding in Complexes.	Unit-IV-Elimination Reactions Unit-V- Rearrangements Reactions.	Unit-V- Photochemistry.



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Month	Class: M.Sc.S.Y.		Class: M.Sc.S.Y.	Class: M.Sc.S.Y.	Class: M.Sc.S.Y.	Class: M.Sc.S.Y.
	Semester: III	Semester: III				
Nov - 2021	Unit-I - Nuclear Magnetic Resonance Spectroscopy (¹ H-NMR)	Unit-I- Oxidation	Unit-I- Introduction in Bio-organic Chemistry.	Unit-I- Ptercyclic Reactions-I Electrocyclic Reaction.	Unit-II- Ptercyclic Reactions-II Cycloaddition Reaction Sigmatropic Reaction.	
Dec- 2021	Unit-II- C ¹³ Nuclear Magnetic Resonance Spectroscopy.	Unit-II- Reduction	Chemistry.	Unit-II- Ptercyclic Reactions-II Cycloaddition Reaction Sigmatropic Reaction.		
Jan- 2022	Unit-II-Mass Spectroscopy. Unit-V- Problem Based on UV, IR, H ¹ -NMR, C ¹³	Unit-III- Organic Reagents Unit-V- Reaction Intermediate.	Unit-III-Co-ef Enzyme Chemistry Unit-IV- Photochemistry- II Unit-IV- Biomimetic Chemistry and Supramolecular Chemistry.	Unit-III- Photochemistry-I Unit-IV- Photochemistry-II		
Feb - 2022	Unit-V-(A) Massbauer Spectroscopy. (B) Electron Spin Resonance Spectroscopy.	Unit-V- Formation of Carbon-Carbon Bonds via Organometallic Reagents	Unit-V- Asymmetric Synthesis.	Unit V- Free Radical Reactions.		

Total

Matsyodari Shikshan Sanstha's
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 Annual Teaching Plan (Year: 2021-2022)

Mont	h	Semester	Class	Apr 2022	May 2022	Jun 2022	Jul 2022
Class: M.Sc.S.Y.	Semester: IV	Paper: CHE-417	Class: M.Sc.S.Y.	Unit-I - Disconnection Approach	Unit-II- Protecting Groups Unit-III- C-C Disconnections (i) One Group C-C Disconnection (ii) Two Group C-C Disconnection	Unit IV- Ring Synthesis Chemistry Four Membered Five Membered Six Membered Fused Heterocycles.	Unit-V- Complex Molecule
Class: M.Sc.S.Y.	Semester: IV	Paper: CHE-418	Class: M.Sc.S.Y.	Unit-I - Rearrangement	Unit-II- Name Reactions	Unit-III- Heterocyclic Chemistry Unit-IV Anthocyanins and Flavones	Unit-V - Biogenesis
Class: M.Sc.S.Y.	Semester: IV	Paper: CHE-419	Class: M.Sc.S.Y.	Unit-I- Terpenoids and carotenoids	Unit-II- Alkaloids	Unit-III- Pharmacodynamics of Drugs Unit-IV- Classification of Anti-inflammatory Drugs Anti-hypertensive Drugs Antibiotics	Anaesthetic Drugs Anti-diabetic Drugs Anti-neoplastic Drugs
Class: M.Sc.S.Y.	Semester: IV	Paper: CHE-420	Class: M.Sc.S.Y.	Unit-I- Basic Consideration of Drug Activity.	Unit-II- Pharmacokinetics		

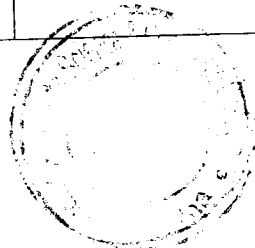


Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna

Annual Teaching Plan (Year: 2021-22)

Department of Chemistry

Month	Class: B.Sc.F.Y.	Class: B.Sc.S.Y.	Class: B.Sc.T.Y.
	Paper: VI	Paper: XII	Paper: XVIII
	Semester: I	Semester: III	Semester: V
Nov-2021	<p>I Organic Qualitative Analysis: Nature / Functional group / Element / Derivative / Physical constant (i) Benzoic acid, (ii) salicylic acid,</p>	<p>Section A: Instrumentation: i. To determine normality and strength of HCl using (0.1N) NaOH Solution Conductometrically. ii. To determine normality and strength of acetic acid using (0.1N) NaOH solution Conductometrically.</p>	<p>Organic Estimation i) Estimation of Carbonyl group by hydrazone formation method ii) Estimation of vitamin C in commercial soft drink / Glucon D</p>
Dec-2021	<p>(iii) β-naphthol, (iv) p-nitroaniline,</p>	<p>iii. To determine normality and strength of HCl using (0.1N) NaOH solution by pH-metrically. iv. To verify Lambert-Beers Law using $KMnO_4$ solution. v. To estimate the amount of Sugar using Polarimeter.</p>	<p>iii) Estimation of ascorbic acid iv) Estimation of Saponification value of oil Organic Preparation and its purity by TLC i) Preparation of Hydrazobenzene from azobenzene. ii) Preparation of Phthalic anhydride from phthalic acid.</p>
Jan-2022	<p>v) Naphthalene (vi) Acetanilide</p>	<p>vi. To determine refractive index of ethanol water system. vii. To determine indicator constant of indicator colorimetrically</p>	<p>iii) Preparation of 2, 4 dinitrophenyl hydrazone of acetone. iv) To prepare picrate of Naphthalene. v) To prepare picrate of Anthracene. Vi) preparation of p - bromo acetanilide from acetanilide</p>



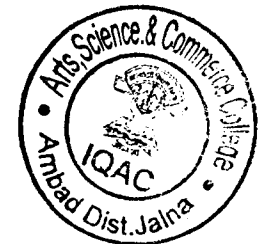
Dr. Simla S. N.

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Annual Teaching Plan (Year: 2021-22)

Month	Class: B.Sc.F.Y.	Class: B.Sc.S.Y.	Class: B.Sc.T.Y.
	Paper: IV	Paper: VII	Paper: VI
	Semester: II	Semester: IV	Semester: VI
Apr-2022	<p>II Organic Estimation:</p> <ul style="list-style-type: none"> Phenol by Bromination 	<p>Section B: Organic Derivatives:- Preparation, Crystallization and Physical Constant. i. Acetyl Derivatives : a) Aniline b) Salicylic Acid ii. Benzoyl Derivatives : a) Aniline b) B-naphtol iii. Hydrolysis Derivatives : a) Ethyl Benzoate b) Aspirin iv. Bromo-Derivatives : a) Phenol b) Cinnamic Acid</p>	<p>Instrumental</p> <ol style="list-style-type: none"> Determine the Strength of HCl and CH₃COOH in a given mixture by titrating against strong base conductometrically. Determine the strength of oxalic acid conductometrically using sodium hydroxide solution. To determine empirical formula of ferric - 5-sulphosalicylate
May-2022	<ul style="list-style-type: none"> Estimation of basicity, molecular weight of organic acid (oxalic/acetic acid) 	<p>Organic Estimations:</p> <ol style="list-style-type: none"> Estimation of nitro group by reduction. Estimation of glucose. 	<ol style="list-style-type: none"> Determine the amount of Fe²⁺ in the given solution potentiometrically To determine the refractive indices of series of salt solutions and to find out concentration of the salt in given unknown solution.
Jun-2022		<ol style="list-style-type: none"> Estimation of ester by hydrolysis. Estimation of amides by hydrolysis 	<p>Non-Instrumental</p> <ol style="list-style-type: none"> To determine the interfacial tension between two immiscible liquids. To study the effect of addition of an electrolyte NaCl / KCl on the solubility of benzoic acid at room temperature. To determine the standard free energy change ΔG^0 and equilibrium constant for the reaction $Cu + 2 Ag^+ = Cu^{2+} + 2 Ag$.

Month	Class: B. Com FY Paper: SL Marathi Semester: I	Class: B. Com SY Paper: SL Marathi Semester: II	Class: Paper: Semester:	Class: Paper: Semester:	Class: Paper: Semester:
Nov	वाच-पद्यउपयोजित गद्य-१ संसृष्टि रक्षण २ अज्ञात पद्य-१ धुकी भागीप २- अज्ञात	१-भाषा भाषा शिक्षण २ व्यापार व्यवसाय वाचन			
Dec	पद्य-३ आठवे कोठ्या ४-भाषा-ग्राह्य ५-सूक्त भाग्य गद्य-३ राजापी कर्ण ४-जिजाऊ	३ पत्र लेखन: तंत्र शिक्षण			
Jan	पद्य-६ पांडस देवा ७-याज्ञिक ८-संस्कृत गद्य-९ मनु कथा ५-पुस्तक ६-पुस्तक	४ नागार्जुनीयान्तर्भाषी भाषाचे महत्त्व			
Feb	पद्य-१०-तुस्त्या प्रसिद्धि ११-प्रेम भाषा उपयोजित लेखन	५ निबंध लेखन			
March	गद्य-१ शोच्य कीर्तिका २ देशाचे भाषित ३-लोक भाषा पद्य-१ कुंकुमा २-निर्वाण ३-नवमहादेशी	१ कार्य लेखन (लेखन) २-अनुवाद: तंत्र शिक्षण			



Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
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Month	Class: B.com I	Class: B.com II	Class:	Class:
	Paper: SL-Markku	Paper: SL-Markku	Paper:	Paper:
	Semester: I	Semester: II	Semester:	Semester:
Apr	1- अर्थशास्त्र 2- विदेशी 3- अर्थशास्त्र 4- अर्थशास्त्र 5- अर्थशास्त्र 6- अर्थशास्त्र	1- वाणिज्य व्यवसाय व शासन 2- व्यापारशास्त्र शासन		
May	1- अर्थशास्त्र 2- अर्थशास्त्र 3- अर्थशास्त्र 4- अर्थशास्त्र 5- अर्थशास्त्र	1- अर्थशास्त्र शासन		
Aug				
Sep				
Oct				

1/2/21
21/11/21 य. प्र. प्र.

Y. Pr. Pr.
Dr. R. B. Rameshwar

Principal
M.S.S.'s Arts, Science & Commerce College
Ambad Dist. Jalna-431204

Arts, Science & Commerce College, Ambad DistJalna

Annual Teaching Plan (Year: 2021-22)

Name of Teacher: Madne V. K.

Department of ..Commerce...

Month	Class: B.Com. F.Y. Paper No: Entrepreneurship Devp. - I Semester: I	Class: B.Com. S.Y. Paper No: Marketing Management Semester: III	Class: B.Com. T.Y. Paper No: Adv. Financial Accounting - I [I] Semester: V
Oct-2021	Unit-I : Entrepreneur - Concept, Definition, characteristics, Imp, Entrepreneurs & Intrapreneur, Role of Entrepreneur in Economic Development. Unit-II : Entrepreneurship - Concept, meaning, Definition, characteristics, challenges, issues & Barriers of Entrepreneurship.	Unit-I : Introduction to Marketing: Definition, nature, scope, imp. of marketing, classification of markets, functions of marketing, evolution of marketing. Unit - II : Strategic & Ethical Marketing - Definition, features, steps in strategic marketing planning process, SWOT analysis, ethics in marketing, challenges facing marketers.	Unit - I : Single Entry System - Meaning, features, merits & demerits, DIFF. between single entry system & Double entry system, Net worth & Conversion methods. Unit-II : Final Accounts of Banking Company (Numeric) - Intro-duction, legal provisions, NPA, Reserve fund, bills for collection, rebate on bills discounted, preparation of Final accounts as per schedule stated, Form 'A' & Form 'B'.
Nov-2021	Unit-III : The Dynamic New Trends of Entrepreneurship - startup Accelerators, student Sandbox and Business Labs, Crowd Funding, Venture capital, co-working, spaces Boot Camps, online Entrepreneurship Degree.	Unit - III : Marketing Mix and channels of Distribution :- Meaning & imp. of marketing mix, elements of marketing mix - product mix, price mix, place mix, Promotion mix, study of channels of distribution.	Unit-III : Final Accounts of Insurance company (Numeric) - Intro, meaning, types, books maintain, Reserve A/c's, P&L A/c, Preparation of Fire & Marine A/c.
Dec-2021	Unit-IV : Evolution of Entrepreneurship in 21 st century - Essential of 21 st century Entrepreneurship, Imp. of Ent. in 21 st century, start	Unit-IV : Marketing Management and Environment - Definition, need, imp. functions of MM, marketing environment, nature, scope, micro, macro	Unit - IV : Investment Accounts (Numeric) - Intro., meaning, Definition, cum-int, cum-div, ex-int, ex-div. transactions, valuation of closing investment by FIFO method & market price method.
Jan-2022	UP Schemes, start up india, stand up india, Pradhan mantri kaushal Yojana, Skill india. Unit-V : Project Identification: Meaning, Definition, classification, Project life, project formulation & Feasibility, information centres in India.	Environment, Emerging marketing opportunities in india, international marketing environment. Unit - V : Agriculture Marketing :- meaning, Definition, scope, diff. between agricultural product marketing and manufactured product marketing, Factors affecting demand of agro products.	Unit - V : Emerging Technological Trends in Accounting - cloud accounting system, Forensic accounting, Artificial intelligence in accounting and auditing.

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Annual Teaching Plan (Year: 2021-22)


Month	Class: B.Com. F.Y.	Class: B.Com. S.Y.	Class: B.Com. T.Y.
	Paper No: Entrepreneurship Devp-II Semester: II	Paper No: Insurance Semester: IV	Paper No: Adv. Financial Accounting - II Semester: VI
Mar-2022	Unit - I : Originating Theories of Entrepreneurship - Economic theory, Sociological theory, psychological theory, Innovative theory of Ent. by Joseph Schumpeter, Theory of achievement motivation by McClelland, Maslow's Sociological th.	Unit - I : Introduction to Insurance - Insurance - History, meaning, definitions, principles, imp., types, contract of insurance, Insurable risk & its types.	Unit - I : Indian Accounting Standards - Meaning, IAS 2020, application of AS-7, AS-9, AS-14, AS-18, AS-19, AS-20, AS-24, AS-26 & AS-29 Unit - II : Farm Accounting - (Numeric)
Apr-2022	Unit - II : Types of Entrepreneurship - Recent trends - Sociopreneur, edupreneur, Ecopreneur & agropreneur, women ent, SHG. Unit - III : Identification of Business opportunities - Env. scanning factors considered for env. scanning socio cultural, economic, technical, demographic, legal, political etc.	Unit - II : Life Insurance - History, meaning, definition, principles, imp, types, procedure of taking life insurance policy, policy conditions & claims, life insurance corporation of India. Unit - III : General Insurance - History & types (Marine, fire, motor, Health, accident, crop, group insurance etc.)	- Books of Accounts to be maintained for farm accounting, preparation of Farm A/c & Balance sheet. (Dairy & Poultry). Unit - III : Final Accounts of Local Self Government (Numeric) - meaning & importance of local self govt., maintaining books, preparation of Final accounts (Gram panchayat & zilla parishad only)
May-2022	Unit - IV : Market Research - meaning, need & imp of market research, field survey, test mar, delphi tech, Desk Research, obs & experiment method.	Unit - IV - Insurance Agency - Agent's qualification, procedure for becoming an agent, methods of agents remuneration, functions & responsibilities of agent, ethical behaviors of agent, Renewal & cancellation of license.	Unit - IV : Final Accounts of Electricity Company (Numeric) - Preparation of Revenue, Net revenue receipt & exp. on capital A/c, B/S with special adjustments.
Jun-2022	Unit - V : Innovation in Entrepreneurship - Purposeful innovation, incubation centres, study of incubation centres in Goa.	Unit - V : Recent Trends in Insurance Sector - Functional areas of IT in insurance sector, e-insurance, online insurance, procedure of purchase online insurance policy, ULIP.	Unit - V : International Financial Reporting standard (Theory) - IFRS, Accounting values & culture, Devp. & disclosure, Global accounting.


Madhe V.K.

Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
Annual Teaching Plan (Year: 2021-22)

Name of the Teacher: - Mrs. Arati Shrikant Chitral, Department of Commerce

Month	Class: B.Com. FY	Class: B.Com. SY	Class: B.Com. TY
	Paper No: III	Paper No: IV	Paper No: V
	Semester: I (Industrial & Busi. Economics)	Semester: III (Cost Accounting I)	Semester: V (Comp. Accounting I)
Oct-21	Unit No. I Introduction to Business Economics- Meaning, Definition, Significance and Scope of business economics, Objective of business firm.	Unit I Cost Accounting: Meaning. Definition. Limitation, of Financial Accounting. Development of Cost Accounting. Function. Objection. Advantages. Disadvantages and Laminations of Cost Accounting. Difference between Financial and Cost Accounting.	Unit I Introduction to Computerized Accounting: Computerized Accounting Need & Significance, Evolution from Manual to Computerized Accounting System, Benefits of Computerized Accounting. (eg. Tally ERP 9). Evolution of Accounting Software, Different Versions of Tally. Silent Features, Technological Advantages of Computerized Accounting.
	Unit No. II Theory of Consumer Behavior: The indifference curve approach: Meaning, definition, assumptions and properties of indifference curve, consumers equilibrium	Unit II Elements of Cost: Concept of Cost. Cost Units. Cost Centers. Cost Objects. Cost Drivers. Types of Cost, Classification of Cost - By Nature or Elements. By Function, By Variability or Behavior, By Control liability. By Normality. By Cost for Managerial Decision Making.	Unit- II Fundamentals of Computerized Accounting (e.g. Tally ERP9): Start-up & Quit. Screen Components. Setting up a new company. Select Alter & Delete a company. Maintaining Accounting Masters: groups. Leaders. Maintaining Inventory Masters: Stock Group. Stock Item. Units of Measure. Stock Categories, Godown. F11 features, F12 Configurations.
Dec-21	Unit No. III Elasticity of Demand: Concept, Measurement and determinants of elasticity of demand. Price elasticity, income elasticity and cross elasticity, importance of elasticity of demand, Demand Forecasting Methods. Market Structures :	Unit III Material: Concept, Objectives, Need. Essentials of Material Control, Purchase procedures. Function of purchase. Department classification and coding of material, Fixation of levels of material, Economic order Quantity. Material Handling Costs. Bin Cards. Stores Routines, Issue of Material, Issue Procedures. Method of Pricing. Material Issue FIFO, LIFO. Simple Average, Weighted Average Method.	Unit III Vouchers Accounting Vouchers: Contra, Payment, and Receipt. Journal. Purchase, Sales, Debit Note and credit Note. Inventory Vouchers: Purchase Order. Sales Orders. Receipt Note & Delivery Note. Stock Journals, Rejection In and Rejection out.


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Month	Class: B.Com. FY	Class: B.Com. SY	Class: B.Com. TY
	Paper No: III	Paper No: IV	Paper No: V
	Semester: I (Industrial & Busi. Economics)	Semester: III (Cost Accounting I)	Semester: V (Comp. Accounting I)
Dec-21	Unit No. IV		Unit- IV
	Market Structures and Business decisions, Objectives of a business firm		Reports: Accounting Reports: Trial Balance. Profit & Loss A/c. Balance Sheets, Day Book, Cash/Bank Book. Ledger Report. Group Summery. Voucher Report. Inventory Reports: Stock Summary. Stock Item Summery. Stock Group Summery. Stock Category Report, Godown Reports. Inventory Vouchers Reports. Understanding report - wise F12 configurations.
Jan-22	Unit No. IV	Unit IV	Unit V
	a) Perfect Competition: Meaning, Concept and features b) Monopoly: Meaning, Concept and features.	Labour : Meaning, Definition. Recant Trends in Time Booking. Labour Control, Methods of Wage Payment. Time and Piece Rate, Incentives Scheme Taylor's Differential Piece Rate system. Halsey Plan, Rowan Plan (Theory & Numerical)	GST Functionality: Activating GST in Tally. Setting Up GST: Company level. Ledger Level or Inventory Level. Creating GST Masters: C-GST. 1-GST. 1-GST, Recording GST Transaction: Purchase, Sales, Printing GST Tax Invoice. GST Returns, Payment of GST.
	Unit No. V	Unit V	
	Factor Pricing: Marginal Productivity theory and demand for factors; Nature of supply of factor inputs; Determination of wage rates under perfect competition and monopoly; Rent concept; Ricardian and Modern theories of Rent; Quasi rent.	Overheads: Definition, Direct and Indirect Costs. Important of Overheads. Allocation. Apportionment and Absorption of Overhead. Methods of Distribution. Primary Secondary distribution, repeated method. Machine Hour Rate, Under and Over absorption of overheads.	

Month	Class: B.Com. FY	Class: B.Com. SY	Class: B.Com. TY
	Paper No: V	Paper No: IV	Paper No: V
	Semester: II (Business Org. and Mgt.)	Semester: IV (Cost Accounting II)	Semester: VI (Comp. Accounting II)
Mar-2022	Unit No. I Foundation of Indian Business: Manufacturing and Service Sectors; Small and Medium Enterprises; Problems and Government policy. India's experience of liberalization and globalization. Technological innovations and skill development. "Make in India' Movement. Social responsibility and ethics Emerging opportunities in business; Franchising, Outsourcing, and E-commerce.	Unit I Single or Output Costing: Meaning. Definition, Features, Objectives. Elements of Cost. Distribution of overhead. Preparation of cost sheet. Tender and Quotation.	Unit I Advance Computerized Accounting Features: (e.g. Tally ERP9) Maintaining Bill-wise details: Activating Bill -wise details, Credit period. Maintain Balances bill-by-bill, Outstanding Reports Cost Centers & Cost Categories: Activating Cost Centers. Creating Cost Centers, Cost Center Report Banking: Cheque Book Management. Denomination Details, Bank Reconciliation.
Apr-22	Unit No. II Business Enterprises: Forms of Business Organization: Sole Proprietorship, Joint Hindu Family Firm, Partnership firm, Joint Stock Company, Cooperative society; Limited Liability Partnership: Choice of Form of Organization. Government Business Interface; Rationale and Forms of Public Enterprises. International Business, Multinational Corporations.	Unit II Contract Costing: Meaning concept of contract costing, preparation of contract account, complete and incomplete contract, work in progress, and profit on contract.	Unit- II Advanced Inventory Features in Computerized Accounting: (e.g.Tally.ERP 9) Stock Transfers: Recording Stock Journals. Godown-wise Reports. Bill of Materials: Set up for stock item. Manufacturing Journals. Batch-wise Details: Activating Batch -wise details. Batch-wise Reports.
	Unit No. III Leadership, Motivation and Control: Leadership: Concept and Styles; Trait and Situational Theory of Leadership. Motivation: Concept and Importance; Maslow Need Hierarchy Theory: Herzberg Two Factors Theory. Control: Concept and Process.		

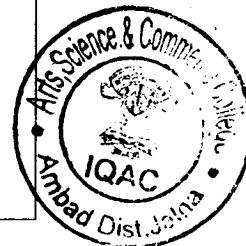
Month	Class: B.Com. FY	Class: B.Com. SY	Class: B.Com. TY
	Paper No: V	Paper No: IV	Paper No: V
	Semester: II (Business Org. and Mgt.)	Semester: IV (Cost Accounting II)	Semester: VI (Comp. Accounting II)
May-22	Unit No. IV Management and Organization: The Process of Management: Planning: Decision-making, Strategy Formulation. Organizing: Basic Considerations; Departmentation Functional, Project, Matrix and Network; Delegation and Decentralization of Authority: Groups and Teams.	Unit III Operating costing or Service Costing: Meaning of operating costing, types of operating costing. Preparation of electricity and transport and cost sheet.	Unit III Advanced GST Transactions: (e.g. Tally.ERP 9): Recording Purchases: Nil Related, Exempted. Multiple Tax Rates Purchase Returns. Recording Sales: Nil Related, Exempted. Multiple GST rates. Sales Returns. Recording sales of Service. E-way Bill, GST Returns: GSTR1. GSTR2.
		Unit IV Process Costing: Meaning of process costing, concept of process costing, normal and abnormal loss, gain, Equivalent production, preparation of process costing. Joint and by-product.	
Jun-22	Unit No. V Functional Areas of Management: Marketing Management: Marketing Concept; Marketing Mix; Product Life Cycle; Pricing Policies and Practices Financial Management: Concept and Objectives; Sources of Funds - Equity Shares, Debentures, Venture Capital and Lease Finance. Securities Market, Role of SEBI. Human Resource Management: Concept and Functions; Basic Dynamics of Employer Employee Relations.	Unit V Reconciliation Meaning, objectives and Advantages of reconciliation, Reconciliation of cost accounting records with financial record. Procedure of reconciliation, method of reconciliation.	Unit- IV Tax Deducted at Source (TDS): Concept of TDS. Activating TDS. Creating Masters. Recording Transactions. TDS Reports.
			Unit V Technological Features in Accounting Software: (eg. Tally. ERP 9): Backup & Restore, Import & Export Data, Setting Password to Company.

Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad DistJalna

Annual Teaching Plan (Year: 2021-22)

Name of Teacher: Mr. Whoje S.K. Department of ... English

Month	Class: BA FY	Class: BA FY	Class: BA FY
	Paper No: English (Certs) -II	Paper No: Eng. (Certs) IV	Paper No: Eng. (Certs) IX
	Semester: I	Semester: III	Semester: V
Oct-2021	① Dramatic monologue ② Farce and melodrama ③ one Act play. Text: Now related to the world.	Introduction to English literature.	Introduction to modern English literature
Nov-2021	Poetry:- ① My last Duchess ② Christabel ③ Morning Prayer.	① THE ESSAY ② THE EPIC: Types, mock epic, conventions	T.S. Eliot's poetry:- ① Love Song of J. Alfred Prufrock ② Preludes
Dec-2021	Drama:- The Three Sisters by Anton Chekhov	Bacon's essays:- ① of studies ② of love ③ of Parents and children ④ of Revenge ⑤ of friendship	G.B. Shaw's play Pygmalion
Jan-2022	Short Fiction:- ① The Postmaster - R. Tagore ② Adventure of the dying Detective ③ Rule of the Road ④ How I hid my Cattle.	Alexander Pope's Rape of the Lock Cantos I, II, III, IV V	D.H. Lawrence's novel: Sons and Lovers.



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Month	Class: <u>BATY</u>	Class: <u>BASY</u>	Class: <u>BATY</u>
	Paper No: <u>Eng. (Cpt.) IV</u>	Paper No: <u>Eng. (Cpt.) VII</u>	Paper No: <u>Eng. (Cpt.) XIII</u>
	Semester: <u>II</u>	Semester: <u>IV</u>	Semester: <u>VI</u>
Mar-2022	I A. Poetry Types: ① THE EPIC ② THE ③ THE SATIRE ④ THE B) Sansan Agonistes	Introduction to 18th Century Literature.	Introduction to Contemporary Literature.
Apr-2022	II Essays by Francis Bacon: 1 to 10	① Shakespearean Tragedy ② Features of Rhetoric Literature.	W. B. Yeats' Poetry: ① Easter, 1916 ② The Second Coming ③ Among the School Children.
May-2022	III Drama: - Doctor Faustus by Christopher Marlowe.	William Shakespeare's play, Julius Caesar	John Osborne's play Look Back in Anger
Jun-2022	IV Fiction: The English Patient by Michael Ondaatje	Daniel Defoe's novel: Robinson Crusoe.	Kingsley Amis' novel: Lucky Jim.



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Annual Teaching Plan (Year: 2021-22)

Month	Class: BA/BSc Sy	Class: B.Com Sy	Class: BA Ty
	Paper No: Eng. (Comp.) - IV	Paper No: Eng. (Comp) IV	Paper No: Eng. (Comp) XV
	Semester: IV	Semester: IV	Semester: VI
Mar-2022	Introductory	Introductory.	Introduction to American literature
Apr-2022	Prose: Lesson 6 to 10	Unit IV, V, VI of section I	Robert Frost's poetry:- ① mending wall ② Road not taken
May-2022	Poetry: poem No. 6 to 10	Prose No. 6 to 10	Drama:- Tennessee Williams The Streetcar named Desire
Jun-2022	Grammar Section: clause, clause elements, synonyms, antonyms, prefixes, suffixes etc.	Grammar Section: clause elements, prefixes, suffixes.	Fiction:- Ernest Hemingway's The Old man and the sea.



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Annual Teaching Plan (Year: 2021-22)

Name of Teacher: Mr. Khoje S.K.

Department of

Month	Class: BA/BSc Sy	Class: B.Com Sy	Class: B.A.Ty
	Paper No: English (Comp.) - III	Paper No: English (Comp.) - III	Paper No: Eng. Comp. - VI
	Semester: III	Semester: III	Semester: V
Oct-2021	Introductory	Introductory	Introduction to American Literature
Nov-2021	Prose: Lesson 1 to 5	Unit I, II, III of Section I	Emily Dickinson's Poetry: 1 to 5.
Dec-2021	Poetry: Poem No. 1 to 5	Prose no. 1 to 5	Fiction: The Adventure of Huckleberry Finn by Mark Twain
Jan-2022	Grammar Section: Sentences, clause punctuation, capitalization.	Grammar section: Sentences, clause punctuation, capitalization.	Drama: The Heiny Ape by Eugene O'Neill



NEW

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 Annual Teaching Plan (Year: 2021-2022)

Department of Economics

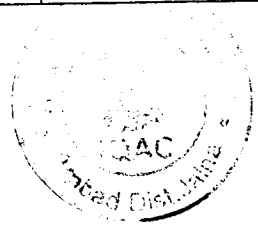
Dr.R.B Sangule

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Dec
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Month	Class: Class:-B.A FY	Class: BASY	Class: BATY	Class: BATY
	Paper: Micro economics (I)	Paper: Economics of Development (VI)	Paper: International Economics (IX)	Paper: History of Economic thought
	Semester: I	Semester: III	Semester: V	Semester: V
Nov-2020	Unit- I: Introduction Meaning, nature, scope, significance and limitations of micro Economics.	Unit I – Introduction:- Meaning of economic development & growth, Difference bet ⁿ development & growth,	Unit I – Importance OF Trade & Trade Theories:- Importance of the Study of International Economics,	Unit-1 Thomas Mun-natural order, Agriculture, Social Classes, Taxation
Dec-2020	Difference between Micro Economics and Macro Economics .Welfare Economics: Definition and nature of welfare Economics, The concept of new welfare Economics. Pigovian Welfare Economics, Social Welfare Function.	Concept of underdevelopment & growth, characteristics of underdeveloped countries, sustainable development, obstacles to economic development. Unit II –Theories of Development – Theories of Adam Smith & Malthus, Karl Max, Shumpeter.	Inter-Regional & International trade, Absolute Advantage Theory Comparative advantage & opportunity cost, Unit II- Gains From Trade- Measurement & distribution, Trade as an engine of Economic growth	Unit-II Adam Smith, Davidd Record, Tomas Malthas, Karl Marks, J.B. Say
Jan-2021	Unit - II: Theory of Demand and Supply: Concept of Demand, Law of Demand. Demand Function – Linear and non-Linear demand function. Concept of Supply, Law of Supply and Supply Function. Elasticity of Demand – Price, Income and Cross and its measurement. Elasticity of Supply. Static and Dynamic Equilibrium, Partial and General Equilibrium	Unit III – Factors in Development Process –Natural resources, renewable & nonrenewable, Population- Theory of optimum population, Saving & Investment – capital accumulation, capital output ratio, choice of technique. Unit IV – Growth Models – Ragnar Nurkses model of economic growth, W.W.Rostows stages of economic growth	Concept of T. of T. & their importance in the theory of trade Unit III-Tariffs & Quotas- Types of tariffs & quotas, their impact in partial eq ^m analysis, Free trade & policy of tariff in relation to economic growth with special reference to India	Unit-III Marshal- Price determination, economics method, ideas of consumer's surplus, prime and Supplementary cost, representative firm, quesirent, nature of profit.



JAN
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Unit III: Consumers Behaviour and Demand: Meaning of Utility. Marishallian Approach: Theory of Diminishing Marginal Utility, Equi-marginal utility, Consumer's Surplus. Hick's Approach: Indifference curve – properties of Indifference Curve. Consumer's Equilibrium with the help of Indifference Curve, Price effect, Income effect and substitution effect Samuelson Approach: Revealed Preference Theory
Unit IV: Analysis of Market Equilibrium: Meaning and Importance of Equilibrium. Kinds of Equilibrium – Stable, Unstable and Neutral Equilibrium.
1st semester exam

Rosentain Rodans theory of big push, balanced v/s unbalanced growth.
Unit V – Sectoral View of Economic Development – Roal of Agri., Industrialisation & Service sector in economic development, Role of Nano technology in agricultural development
3rd semester exam

Unit IV- Balance of Payments- Concept of BOP, eq^m & diseq^m in BOP, consequences of diseq^m in BOP, Various measures to correct deficit in the BOP
Relative merits, demerits & limitations of Devaluation
5th semester exam

Unit IV
Keyns-aggregate Economy, Liquidity preference theory, liquidity trap, marginal investment, deficit, multiplier principle.

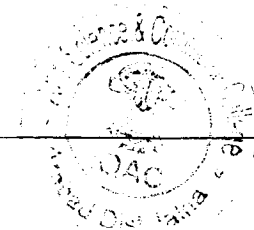

Head Of Dept


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Matsyodari Shikshan Sanstha's
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Annual Teaching Plan (Year: 2021-2022)

Month	Class: BAFY	Class: BASY	Class: BATY	Class: BATY
	Paper: Price Theory	Paper: Statistical Methods (VIII)	Paper: Industrial Economics (XIV)	Paper: Indian Economic Thinker (XV)
	Semester: II	Semester: IV	Semester: VI	Semester: VI
Nov 2022	Unit I: Theory of Production: Meaning of production. Concept of Production Function, The law of Variable Proportions, Law of returns & returns to Scale. Internal and External Economies & Diseconomies. ISO quant Curve, Properties of ISO quant curves. ISO cost Line, Production Possibility Curve.	Unit- I Introduction of Statistics: Meaning, definition, scope and importance of statistics, collection of data	Unit I – Introduction : Need, Importance & Scope of Industries	Unit I – Economic thought of Koutilya : Concept of welfare state, principle of taxation
Apr 2022	Unit II: Analysis of Costs and Revenue: Concepts of Costs- Fixed and variable Costs, Opportunity cost, Average and Marginal Cost. Short run and Long run cost curves. Modern Approach related to Short run and Long run cost curves. Relation between Marginal Cost, Average Cost and Total Cost. Revenue concepts: Total Revenue, Average & Marginal Revenue. Equilibrium of the Firm – Short run and Long run	Tabulation and serration of data, Graphical Presentation of statistical data. Unit- II Measurement of Central tendency: Mean, Median Mode.	Industrial Classification Unit II – Industrial Organization & Ownership Structure ; Public, Private, Joint & Co-operative sector, MNCs	Unit II – Economic Ideas of Nauroji, Ranade & Datt ; Drain theory, Economic policies, concept of New Humanism, Economic idea of Datt
Nov Dec 2021	Unit III: Market Meaning & classification Perfect Competition: concept - Characteristics, price determination in short and long run, Equilibrium of the firm and industry. Monopoly- Concept, Characteristics and short and long run Equilibrium, price determination, Price discrimination. Monopolistic Competition: concept, Characteristics and short & long run Equilibrium of Firm, Group Equilibrium,	Unit –III Dispersion and Correlation: Measures of dispersion - Mean deviation and Standard deviation, Simple Correlation- Karl Person's Method	Unit III – Location & Dispersion : Theories of location, diversification, problem of regional imbalance	Unit III – Economic Idea of M. Gandhi : sarvodaya, Village swaraj, Dr. B. R. Ambedkar , D. R. Gadgil, Y. B. Chavan



<p>May 2022</p>	<p>Marginal Productivity theory of Distribution. Rent – Concept -Ricardian Theory of Rent, Modern Theory of Rent, Quasi Rent.. Wages – Concept, Types – Modern theory of wages, wage differentials and Collective Bargaining. Interest –Concept, Loanable funds theory and Keynes’s Liquidity preference theory. Profit – Concept, Risk and uncertainty theory and Innovation theory. Unit V: Pricing Methods: Pricing Methods: Marginal Cost Pricing - Full Cost Pricing - Multi product pricing – Limit Pricing. Bain’s Model 2nd semester exam</p>	<p>Unit-IV Index Number: Meaning, types and uses of Index Number, Methods of constructs price index – Laspeyre, Pasche and Fisher's Methods 4th semester exam</p>	<p>Unit IV – Composition of Industrial Sector : Sugar, Cotton, iron & steel Industries, rural industrialization 6th semester exam</p>	<p>Unit IV – Economic thoughts of Amartya Sen : Economic welfare, Social Choice 6th semester exam</p>
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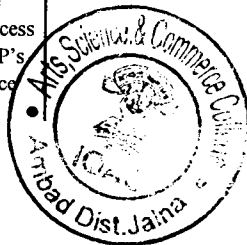
Matsyodari Shikshan Sanstha's

Arts, Science & Commerce College, Ambad Dist. Jalna

Annual Teaching Plan (Year: 2021-2022)

Department of B.C.A

Month	Class: BCA T.Y	Class: BCA T.Y	Class:BCA T.Y	Class:BCA T.Y	Class:BCA T.Y	Class:BCA T.Y
	Paper: Elements Of Commerce	Paper: Android 9	Paper: Business Law- III	Paper: Project	Paper: Software Testing	Paper: Service Marketing
	Semester: VI	Semester: VI	Semester: VI	Semester: VI	Semester: VI	Semester: VI
Mar-22	HTML 5: Introduction , form elements - Date, Date Time, Email, Number, Range, Tel, Color, URL, Date Time Local, Month , Week, Time, Placeholder Attribute, Aittofocits Attribute, Required Attributes , HTML Audio , Video	Environment Setup: Developing for android installing the android SDK, Installing the updates to the SDK, Android Development Tools (ADT) Plugin, developing with Eclipse. Create Android Application, Create Android Virtual Device, and	Information Technology Act 2000: Cyber Crime : Meaning and Nature Terms used in Cybercrime : Hacking, Cyber Space, Leapfrog Attack ; Meaning and its effects on Cyber users Teenage Web Vandals, Cyber Fraud, Virus on the Internet, Defamation, Harassment and E-mail	1. The project should be done in Gore specialization area of B.B.A course only.	Introduction : Fundamentals of Testing What is Testing? Typical Objectives of Testing , Testing and Debugging Why is Testing Necessary? Testing's Contributions to Success Quality Assurance and Testing Errors, Defects, and Failures Defects, Root Causes and Effects Seven	introduction : Service Marketing, Concept, Nature of Services, Characteristics of Services, Classification of Services, Need and Importance of Service Marketing, objectives and Problems of Service Marketing, Difference between Goods and Service, Difference between Software Products and Software Services
Apr-22	XML: Concept of XML, features of KML, Writing XML elements attributes etc. XML with CSS, programs on it. XML with DSO, program s on it. XML Namespace, XML DTL, programs on it. XML schemas, waiting simple sheet using XS LT, SAX Parser, DOM Paizer, Introduction to SOAP, Examples of XML	Application Components: IT Application Components Activities, Services, Broadcast Receivers, content Providers. Anatomy of Android Application, The Main Activity File, The Manifest File, The Strings File, The R File, The Layout File, Running the Application. Types Of Android Application:	IT Contracts and Standards Contracts in the InfoTech World, Contract Formation on Internet, Terms and Conditions on Contracts NIST: National Institute of Standards and Technology; Objectives and working Copyright - Meaning, Ownership and Assignment, License of Copyright,	2. Comprehensive case study (covering single organization/multifunctional area problem, formulation analysis and recommendations)	Testing Throughout the Software Development Lifecycle Software Development Lifecycle Models Software Development and Software Testing Static Testing: Static Testing Basics Work Products that Can Be Examined by Static Testing Benefits of Static Testing	Marketing Communication: Meaning, Elements of marketing communication, Process of marketing communication The Customer, The Business Environment and The Media, Role of Marketing Communication, Approaches in Marketing Communication Corporate and Marketing oriented,
May-22	jQuery - I: Introduction to jQuery, Syntax Overview Anatomy of a jQuery Script, Creating first jQuery script Traversing the DOM, elections - Ciraining, Getters & Setters CSS, jQuery - II : Manipulating Attributes, Utility Methods Events - Connecting Event to Elements,	Resources Organizing & Accessing: Alternative Resources, the Android Debug Text View Attributes, AutoComplete Text View Attributes, Image Button Intents and Filters: IN Intent Objects, Android Intent sandard, Actions, Data, Types of Intents: Android Application Life Cycle.	Technologies and Services :Firewall, DoS, Digital Signature, Digital Signature Certificate, SSL, HTTPS, Pen Register CERT : Cyber Security and Protection to Cyber Users : National Cyber NCSP 2013 : meaning, Aim and Objectives, Reasons of NCSP 201 3, Strategies NCSP 2013 NSA : National Security	3. Inter-organizational study aimed at inter-organizational comparison/ validation of theory/survey of management services. 4. Evolution of any new conceptual / theoretical framework. 5. Field study (empirical study). 6. The project can be based on primary or secondary data	Differences between Static and Dynamic Testing Review Process Work Product Review Process Roles Test Techniques: Categories of Test Techniques Choosing Test Techniques Categories of Test Techniques Experience-based Test : Techniques Error Guessing Exploratory Testing Checklist-based Testing Test Case What is	Promotion and Distribution of Services: Promotion Meaning and Concept, Objectives in Service marketing, Advertisements and Sales Promotion of Services, Distribution: Concept, Channels of Distribution, Obstacles in distribution, Recent Trends in distribution, Service Process and Performance: Service process Concept, Steps in Service Process, 7 P's of Service Marketing Mix, Performance in Service Marketing Concept,



			Agency Consumer Protection Act 1986 (with Amendments 2019)		Test Case? , How to write effect test case, features of good test case, Format for Manual Test Case Writing	Monitoring of Marketing Performance,
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Annual Teaching Plan (Year: 2021-2022)

Department of B.C.A

Month	Class: BCA T.Y	Class: BCA T.Y	Class:BCA T.Y	Class:BCA T.Y	Class:BCA T.Y	Class:BCA T.Y
	Paper: Management Accountin	Paper: SQL 2017	Paper: Visual Basic	Paper: Orgnizational Behavior	Paper: Software Engineering	Paper: Bankng & Insurance
	Semester: V	Semester: V	Semester: V	Semester: V	Semester: V	Semester: V
Mar-22	Introduction to Mang A/c: Meaning, Definaton, Features, Scope, Imporntance and Function Difference between Mang A/C, Fin A/C, Cost A/C Advantages and Limitations of Mang A/C.	Introduction To DBMS: DBMS and data models. Intro to Basic Data type, Advantages of DBMS Understanding client and server, intro to TSQL,history and Featres and type of TSQL.Commands	Intro to Visual Basic: Intro IDE Overview, GUI, Programmng Language, How t use VB edition Installation. Intro to VB Programming: Intro, Visual program and Event-Driven program, A simple Program, Variable- Public, Private, Static, Const, Datatye, Declaring Variable,	Evolution of Management thought: Classical School to Contingency School. Contribution of Management thinkers and proponents: Fredrick Taylor, Max Weber, Henri Fayol, Frank and Lillian Gilbreth, Henry Gantt, Elton Mayo and others. OB Studies and Experiments:	Overview of systems analysis and desing system concept : Type of System, sys life cycle role & skill of Sys analyst, Models A) Current trends in Software Engineering B) Information requirement Analysis : DAT, DTD, DT, SE, FDD, DD	Banking in india: Meanig and definition of bank, commercial bank Structure, Function, credit creation of commercial bank, Co-Operative Bank & Regional Bank intro, obj, structre, organization. Reserve Bank of India: Intro, Organization, mang gernal fun, regulation of money & credit, credit control measures
Apr-22	Analysis and Interpretation of Fianncial Statement: Meaning, Defination, Defination, Scope of Fiancial Statement. Tools of F/S - cpmparative Financial statemnt ,common size financial statement,Trend Analysis.	Intro to SQL Server: Advantages and browback of SQL Server, comparison between SQL and Oracle, Install step of Server Connecting to Server Sever Type, Server Name, Authentication Models- SQL server, Windows, SQL Sever Mangement	Arithmetic Operators, Formatting Data, Branching and Looping Statement. Array and Procedures, functions: Types of array, User defined function OOPs- Class, Object, Event and Inheritance. Eception Handling- Intro When Error handling use, simple error handling, error handling example error object, mouse handling	individual Dyna mics -I Personality: Conceptualization, Discussions on Type. vs. Trait Theory and Nature vs. Nurture Type Theory: Freud 's Theory of Psychosocial Stages, CarlJung's Theory of Personality , Theory X vs. Theory Y and others.	Software Analysus: Requirements Engineering; Feasible study : Economical,Social, technical Requirement validation and management Cost Estimation Model; Activities in Requirements Determination: Reuirement Anticipation, Investigation, Specification.	Banker & Customer : The relationship between banker and customre, statutor obligation to honor cheque - banker lies, duty, right to claim incidental charges, right t charge interest Account of Customer : Precaution for accounting opening, KYC, Type of A/C. TDS.
	Ratio Analysis: Meaning, Advantages, Limmitation, and	Transaction Management: Transaction concepts- Begin,	Basic GUI Concepts: Intro to Form and Control- Create	Individual Dyna mics - Theories of Motivation:	Software requirement specification Structure and	Electronic Baking : Intro, traditional VS E banking,


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Department of B.C.A

Month	Class: BCA F.Y	Class: BCA F.Y	Class:BCA F.Y	Class:BCA F.Y	Class:BCA F.Y	Class:BCA F.Y
	Paper: Accountancy II	Paper: Industrial Organisation	Paper: Mathematics	Paper: Programming in c	Paper: Principles of management	Paper: Basic Web technology
	Semester: II	Semester: II	Semester: II	Semester: II	Semester: II	Semester: II
Mar-22	Goodwill of partnership Firm : Meaning, Need, factors affecting goodwill, methods of valuing goodwill, average profit method, super profit method	Concepts of industrialization: What is industrialization, its determinates problem of industrialization, corporate social responsibility of business	Logarithms, Rules for multiplication division and exponentiation	Introduction and importance of C language, Constants, variables and data types, character set tokens, constant, keywords and identifiers	Definition, Nature & Scope of management, importance, management as an art, science and profession, different approaches to management	Event handling & validations on form: javascript handling event on button, textbox, radio button, checkbox, dropdown box, text area etc,
Apr-22	Accounts of non trading concern : Preparation of receipts and payment account, income and expenditure account and balance sheet	Scale of operation and size of business units, economics of scales meaning of large medium and small size business	Permutations, combinations, and binomial theorem	Operators and Expressions: Arithmetic, relational and logical operators assignment, condition bitwise special operators Decision making and looping : IF statement switch statement , GOTO statement WHILE DO and For Statement	Evolution of management thought contribution of Taylor, Fayol, Follet, Drucker	Form validation : numeric, alphanumeric, alphabets and any combination of these VBScript introduction to VBScripts, data types, control structures and looping functions in vbscript
May-22	Company final accounts : Treatment of provisions, treatment of dividends, interim & final dividends on shares, income tax on dividends, payment on dividends, TDS Single Entry System : Concept ascertainment of profit from records of single entry method	Concept of concentration of power : combination, process of integration vertical horizontal lateral and diagonal and service integration types - pools, trusts etc. Holding companies, Industrial Policy Resolutions of 1991 & WTO Corporate structure of business and essential of corporate Governance	Determinants - different methods of calculating determinants Matrix: - representation - addition, subtraction, multiplication and division inverse transpose, adjoint cofactor singular arrays vectors.	1D Array : one dimensional two dimensional, Handling of character set Structure and Unions: Definition & initialization and assigning value to members arrays of structures and arrays within structures Pointer Declaration and initialization of pointer, File maintenance, user defined functions.	Management Process, Planning, organizing, staffing, direction, controlling, coordination, leadership Functional Management, Human Management, Marketing management, financial management, material management.	Client side web scripting, validating forms DOM, Handling errors Web publishing and advanced HTML concepts : Publishing the site, the realities of publishing and maintaining a web site, intro of search engine optimization, meta - information, overview of client/server Programming on the web


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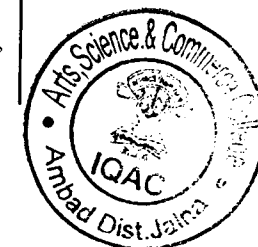
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Annual Teaching Plan (Year: 2021-2022)

Department of B.C.A

Month	Class: BCA F.Y	Class: BCA F.Y	Class:BCA F.Y	Class:BCA F.Y	Class:BCA F.Y	Class:BCA F.Y
	Paper: Operating System I	Paper: Accountancy I	Paper: Industrial Economics	Paper: Business Statistics	Paper:Communication Skills	Paper: Basic Web Technology
	Semester: I	Semester: I	Semester: I	Semester: I	Semester:	Semester: I
Oct-21	Operating System Concept, Its Necessity, Functions Memory Managemen :Device Management,Job Scheduling Management,	Double Entry accounting system Introduction and concept & advantages, accounting cycle types of account, journalizing rules subsidiary book ledger trial balance.	1. Definition and scope of business economics – micro macro economics, significance of economics role in business decision economics systems.	1. Introduction, Origin & Growth of statistics, Definition, Function, Scopes and Limitations. 2. Organising Statistical survey, Planning the survey, Scope Of Survey Techniques of data Collection	1. Meaning, Nature, Scope, Importance, Function and Limitations of communication 2. Elements of Communications – Principles of Communication, Barriers of effective communication.	1. Introduction to html, www, w3c, web publishing, common HTML, Tags Physical & Logical, Some basic tags like, changing background color of page, text color etc., Text formatting tags, ordered & unordered Lists tags, inserting image, links:
Nov-21	Types of Operating System. Disk Operating System(DOS) Sytm Prompt,Default Device Copying,Deleting Files, Directory Handling.	Cash Book Single Columr and double column Trading Profit and loss account and balance sheet	2. Indifference sure analysis Properties of indifference curves consumer equilibrium, income effect price effect and substitution effect.	3. Sampling and sample designs. 4. Classification and Tabulation of data 5. Measures of Central value – Mean, Median and mode	3. Communication Skills:a) Oral Communication:Effective speaking – Principles of effective oral communication, speech preparation – guideline for effective speech Listening skills – telephonic and group communication – Board and union meeting	text, image lomks, image mapping Table :Table, Frame, Form Introduction with text box, text area, buttons, list box radio, checkbox header & footer, index form crating mobile responsive videos songs.
	Windows : Exploring Window Settig,control panel,Remove Add Hardware,Printers,Data Time Regional Setting,Game Recycle Bin etc....	Partnership account Introduction Preparation of Partnership final accounts.	3. Production – Meaning _ Laws of returns. Economics Development – Concept, of economic development,	6. Measures of dispersion – Range, Quartile Deviation, Standard Deviation. 7. Correlation Analysis: Introduction, Utility of the	– interview, their types, techniques and styles Written Communication: Meaning and objective of written communication –	3. CSS Introduction to style sheet, types of style sheets – inline, External, Embedded CSS, text formatting properties, CSS border. margin properties.



Dec-21				study of correlation, correlation and causation,	medias of written communication – features of written communication – preparation, analysis and interpretation of reports.	Positioning use of classes in CSS, Color properties, use of <div> & , padding, CSS multiple columns.
Jan-22	Study Of Internal & External Commands Of MS-DOS DIR, DATE, TIME,CLS,COPY CON,COPY,DELETE,REN, FIND,RESTORE,VER,TREE MOVE.MEM,SYS,XCOPY, BUFFER,GOTO,END	Depreciation introduction meaning and definition methods of depreciation 1. Fixes installment method 2. Reducing balance Method.	indicators of economic development factors promoting economic development obstacles in the economic development of under developed countries features of under development economy with reference to india	Type of correlation – Positive and Negative Correlation Karl Pearsons coefficient of correlation.	Business letter writing – Application, references, Preparation of Tenders and Quotations – Drafting of sales circular letters. Use of electric equipment in business Communication – A hands on Experiments on Telex, Fax Pager Cellular Phone, Computer and internet.	4. JavaScript Basic Introduction to Java Script, variable, commands, operations, syntax, objects, data types, JavaScript DOM theory.

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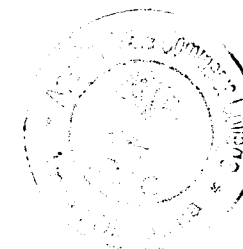
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Department of B.C.A

Month	Class: BCA S.Y	Class: BCA S.Y	Class:BCA S.Y	Class:BCA S.Y	Class:BCA S.Y	Class:BCA S.Y
	Paper: Cost Accountancy	Paper: Java Programming	Paper: MIS & DSS	Paper: Business Law — II	Paper: Entrepreneurship	Paper: advance networking
	Semester: IV	Semester: IV	Semester: IV	Semester: IV	Semester: IV	Semester: IV
Oct-21	Cost Accounting : Definition, Nature, & Scope of Cost Accounting, Distinction between Cost, Financial and Management Accounting, Classification & Elements of Cost, Material, Labor, Expenses, Direct & Indirect Cost, Overheads	Overview Of Java Language: Java history, java features, how java differ from c and c++, JVM, java program structure, type comment, java tokaens, control statement.	Concept, Definition, Characteristics, Objectives, Role and inn pact of MIS, Management as a control system, MIS: A support to the management, Application: of M IS, Organization Effectiveness, Decision making concept, Decision making process, Organizational decision making &M IS and decision	Contract Act: Special Contracts - Law of Indemnity, Guarantee Contracts, Law of Bailment & Pledge, Agency Contracts. Company Law 2013: Introduction of Company Act, Meaning & Definitions, Features of Co. Act	Originating Theories of Entrepreneurship: Economic Theory, Sociological Theory, Psychological Theory, Innovative theory of Entrepreneurship by Joseph Schumpeter. Theory of Achievement Motivation by MC Clelland The Kakinada Experiment. Hoselitz sociological theory Clelland the Kakinada Experiment.	Basic of computer network : computer netwrok, definition, goals, applicition, structure, components, topology, communication types, Mopdes of communication
Nov-21	Costs : Prime Cost, Factory / Works Cost, Administrative Cost, Total Cost, Cost of Sales Preparation of Cost Sheet :	Classes, Objects and Methods · Intro, defining class, creating Objects, use of this key word method parameters, nethod overloading, static member, final method, inheritance nad its types	Information: A quality product. IT enabled services, e business, wireless technologies etc. In formation system in business, Computer based In formation system, I imitation and disadvantages of IS, knowledge and knowledge management system, business intelligence	, Types of Company, Share Capital & its types, Incorporation- Formation of company, Memorandum & Articles of Association SEBI Act 1992 :- Introduction of the Act, Meaning & Definitions, Basic Characteristics of the Act	Types of Entrepreneurship: Recent Trends Sociopreneur, edupreneur, ecopreneur and agropreneur. Women Entrepreneurs, Self Help Groups Identification of Business Opportunities: Environment scanning meaning and benefits,	Network Models : Design issue of the layer, protocol hierarechy, ISO-OSI Reference Model, Internet Model, Comparison of ISO-OSI & TCP/IP, Addressing
	Material: Purchasing, Purchase Requisition, EOQ, Purchase Procedure, Receiving & Recording of Material, Documents. Goods Received	Interface, package and Exception Handling: Defining and implimaenting interface, inner classes packages- create package.	System concept and control, types of system, general model of M IS, need of system Analysis, System Development Life cvcle.	, Obligation of SEBI, issue of Capital, Discloser, Listing & its role in Stock Market Cyber & I.T. Act 2000 (with Amendment) : Need &	Market Research: Meaning, need and importance of market research. Techniques in Marketing Research - Field Survey Technique. Test	Transmission Media : Guid Media, Coaxial Cable, Twisted pair, fiber optics cable, unguided media



Dec-21	Note, Bin Card, Issue of Materials, Pricing Method, LIFO, FIFO, Average Method	access package, type of error, multiple catch statement	development process of MIS, Strategic design of MIS, Business-process, Process mode of an organization. MIS and BPR.	Significance in modern era, Character & User of Internet Technology, On Line Contracts, Hacking, Phishing, Privacy Terrorism, Privacy, Section 66A	Marketing, Delphi Technique, Desk Research, Observation Method and Experiment Method	
Jan-22	Wages : Compensation, Methods of wage payment, Fixed Rate, Piece Rate, Contract, Bonus, Halsey & Rowan Plan	String and stream: string classes, string buffer class, types of stream classes, byte stream classes. Applets: Intro to applet type of applet applet vs application, applet class.	DSS: concept and Philosophy, objectives and characteristic of DSS, major functions of DSS, Components of DSS, DSS generator and tools, 1 imitations of DSS, GDSS, components of G DSS, Knowledge system, Expert system, application of ES, benefits and Limitations of ES, ERP, ERP models	Micro, Small & Medium Enterprises Development Act 2006 (MSMED Act - 2006) : Introduction, Definitions, Features of the Act, Establishment of National Board of MSME, Power & Duties of the Board, Classification of MSME, Promotional Measures of the Act.	Innovation in Entrepreneurship: Purposeful innovation concept, need, process, principles of purposeful innovation, Incubation centers Meaning, Services and role of incubation centres	Network Connectivity Device : categories of connectivity devices, passive & active hub, repeaters, bridge, transparent bridges, source routing bridge

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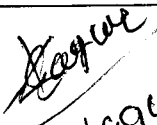
Department of History

Mr. Nagwe K.A.

Month	Class: B.A.F.Y.	Class: B.A.S.Y.	Class: B.A.T.Y.
	Paper I- History of Modern Maharashtra (A.D. 1818 – A.D. 1905)	PAPER NO. 5 - HISTORY OF EARLY INDIA (UPTO B.C. 300)	PAPER NO. 10 : HISTORY OF INDIAN NATIONAL MOVEMENT (A.D. 1885-A.D. 1947)
	Semester: I	Semester: III	Semester: V
Octo-2021	Early phase of British Rule : Administration, Education, Press, Activities of Christian Missionaries.	Sources : Literary and Archaeological Harappan Culture : Rise, expansion and decline	Background : Nature, policies and administration of British rule in India
Nov-2021	Early Socio-religious and economic conditions of Maharashtra. Socio – religious Reformers : Gopal Hari Deshmukh (Lokhitwadi), Mahatma Jyotiba Phule, M.G. Ranade, Gopal Ganesh Agarkar.	Vedic Culture : Vedic Literature, early and later vedic society, position of women, religious concepts Religious movements : Background, Jainism, Buddhism, Lokayat - (Charvak)	Rise of Nationalism in India – Causes and Developments 08 Indian National Congress and National movement : a) Origin of Indian National Congress, b) Leadership of moderates and extremists.
Dec-2022	Early resistance to colonial rule : i) Ramoshi, Bhill and Koli Uprisings. ii) Outbreak of 1857 and Maharashtra. iii) Revolt of Vasudev Balwant Phadke.	Mauryan and post – Mauryan period : Kautilya's Arthshastra, Ashoka's Dhamma, Art, Architecture, Literature.	Revolutionary movement : Rise, nature and importance of the revolutionary movement. Nationalist movement under the leadership of Mahatma Gandhi
Jan-2022	National Movement in Maharashtra : i) The Bombay Association. ii) Poona Sarvajanik Sabha iii) Indian National Congress – Gokhale and Tilak.	Economy : Agriculture, trade and commerce.	Rise of communalism leading partition, and independence of India


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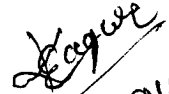
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Department of History

Mr. Nagwe K.A.

Month	Class: B.A.F.Y.	Class: B.A.S.Y.	Class: B.A.T.Y.
	Paper: IV History of Modern Maharashtra(1905-1960)	PAPER NO. 8 - HISTORY OF INDIA (B.C. 300 - A.D. 650)	PAPER NO. 14 – LANDMARKS IN THE HISTORY OF MODERN WORLD
	Semester: II	Semester: IV	Semester: VI
Mar-2022	National Movement (1905 – 1920) : i) Implication of Surat Split, ii) Revolutionary Movement – Abhinav Bharat, iii) Home Rule Movement.	Sources : Literary and Archaeological Brief survey of Political Changes : Sakas, Kushanas, Satvahanas, Guptas, Vakatakas, Vardhan dynasty, Sangam Age.	Renaissance and Reformation in Europe
Apr-2022	National Movement (1920 – 1947) : i) Non co-operation movement, ii) Civil Dis-obedience movement, iii) Quit India movement. 3. Social Movements : i) Non-Brahmin movement – Rajarshi Shahu, Keshavrao Jedhe, Dinkarrao Javalkar.	Socio-Economic life : Structure of Society, Social traditions, Education, position of women, Economic conditions and urbanization.	American war of Independence : Causes, Course and consequences French Revolution : Causes, Course and Consequences.
May-2022	Dalit Movement and Dr. Babasaheb Ambedkar. iii) Education: Karmveer Bhaurao Patil, Panjabrao Deshmukh.	Religious life : Propagation of Jainism, Buddhism, Shaivism and Vaishnavism.	Industrial Revolution : Background, Development, Significance. First World War : Causes and Effects..
Jun -2022	Hyderabad Freedom Struggle (Marathwada Region). Making of Maharashtra : i) Independent Bombay State. ii) Samyukta Maharashtra Movement.	Development of Arts and Architecture : Caves, Temples, Painting, Fabrics A brief survey of the development of Literature.	Russian Revolution of 1917 : Causes, Course and Consequences. Second World War : Causes, Course and effects.


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Dr. Mane R.J.

Month	Class: B.A.F.Y.	Class: B.A.S.Y.	Class: B.A.T.Y.
	PAPER NO. 01 :- SHIVAJI AND HIS TIMES (A.D. 1630 – A.D. 1707)	PAPER NO. 6 - HISTORY OF DELHI SULTANAT (A.D. 1200 - A.D. 1526)	Paper: 09-FIELDS OF HISTORY (ARCHAEOLOGY, MUSEOLOGY, TOURISM)
	Semester: I	Semester: III	Semester: V
oct-2021	Rise of Maratha Power: Geography of Maharashtra, Socio-religious and economic background, Shahaji Bhosle.	Source material for the study Political History (A brief Survey) : a) Turkish invasion of India and foundation of Delhi Sultanate	Introduction of Archaeology : a) Meaning and object b) Archaeology and Arthropology, Archaeology and Material Sciences. c) A brief history of Indian Archaeology.
Nov-2022	Early expeditions of Shivaji : Concept of Hindavi Swaraj, Capture of Torana, Afjalkhan Episod, Siddi Johar's invasion of Panhala Fort. Shivaji – Mughal relations : Attack on Shahista Khan	b) Reign of Khiljis, Tughlaqs and Lodis. c) The Vijaynagar empire and the Bahamani Policies and administration of Sultanat rule	Process in Archaeology: a) Search of Archaeological sites. b) Collection and classification of Archaeological material (remains) Museology: a) Definition of museum and Museology b) Aims and functions of History museums c) Documentation, identification, classification and indexing of the material. d) Use of History Museum.
Dec-2022	Chatrapati Sambhaji; Maratha War of Independence.	Economic and Social Life : Peasants and the rural life, trade, industries and merchants; Social Structure, Caste, Slavery. Religion : a) Religious policy of the state	Tourism : a) Definition and object of Tourism, role of History in Tourism. b) Distinction between travelers and visitors, excursionist and business tour. c) Motivation of Tourism – Pleasure education, culture, Social, ethic, religion, health, history.
Jan -2022	Administration during the period of Shivaji : Civil and Military.	b) Sufi movement, Bhakti movement, Vaishnavite movement, Veershiva Culture. Culture: Literature, fine arts and architecture.	Types and forms of Tourism : Domestic, regional, national and international.

Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna

Annual Teaching Plan (Year: 2021-2022)

Department of History

Dr. Mane R.J.

Month	Class: B.A.F.Y.	Class: B.A.S.Y.	Class: B.A.T.Y.
		PAPER NO. 03 :- HISTORY OF THE MARATHA'S (A.D. 1707 – A.D. 1818)	PAPER NO. 7 - HISTORY OF MUGHAL INDIA (A.D. 1526 – A.D. 1707)
	Semester: II	Semester: IV	Semester: VI
Mar-2022	Transfer of power from Chatrapati to Peshwa – Causes, Chatrapati Shahu, Balaji Vishwanath.	Sources : Literary and Archaeological A brief survey of the political History of Mughal periods	History : Definition, Nature, Scope, Kinds of History, History as a Science and History as an Art
Apr-2022	Peshwa Bajirao First and expansion of Maratha Power Third Battle of Panipat – causes and consequences	A brief survey of the political History of Mughal periods	History and Other branches of Knowledge : History and Archaeology, History and Anthropology History and Geography, History and Sociology, History and Economics, History and Political
May-2022	Revival of Maratha Power – Peshwa Madhavrao. Anglo – Maratha relations Decline of the Maratha power – causes and consequences	Mughal administration: a) Nature of State b) Ruling classes – Nobility and Zamindars, Mansab and Jagir.	Sources of History: Classification of Sources: Evaluation of sources – Authenticity and credibility. 10 4. Modern Thinkers of History: Ranke, Hegel, Karl Marx.
Jun -2022	Administration during the period of Peshwas : Maratha Mandal, Central and provincial administration, Judicial system.	Economic Developments : Agrarian system, industry, trade and commerce, coinage	Major trends in Indian History writing: Imperialist, Nationalist, Marxist, Subaltern. Use of History



Principal

M.S.S. Arts, Science & Commerce College
Ambad Dist. Jalna-431204



Dr. Mane R.J.

Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad DistJalna

Annual Teaching Plan (Year: 2021-22)

Name of Teacher: M. N. Gaiwad

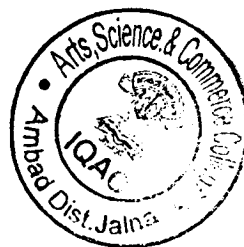
Department of Home Science

Month	Class: <u>B.A First Year</u>	Class: <u>B.A. Second Year</u>	Class: <u>B.A Third Year</u>
	Paper No: <u>Food & Nutrition</u>	Paper No: <u>Textile Clothing</u>	Paper No: <u>Handy & Interior Decoration</u>
	Semester: <u>I</u>	Semester: <u>III</u>	Semester: <u>V</u>
Oct-2021	1) Weight & Measure of raw & cooked food. 2) Market price of raw & Processed food.	<u>Knitting</u> - 4 different type of weaves. <u>II</u> <u>Painting</u> a) tie & dye b) Block Painting c) Batik	<u>Unit I</u> Draw a house plan for different economic group lower middle higher, high income group
Nov-2021	3) Planning & Preparation of recipes from food group cereals, pulses, vegetable, fruits, oil seed milk	<u>III</u> - Elementary sleeves Plain, bell, & Puff Sleeve.	<u>Unit II</u> Preparation of any decorative Artical.
Dec-2021	4) Planning & Preparation of nutrient-rich recipes for higher, middle & lower income group (calori, protm, fat, iron, calcium, vita B ₁ , B ₂ , P.	<u>IV</u> Construction of <u>Apprentis</u> 1) Skirts (1/4 size) (umbrella/plated)	<u>Unit III</u> Making <u>Curtain Sample</u> 1) criss-cross 2) Ruffled 3) Three plated
Jan-2022	5) Survey regarding food packaging labels of different food product.	2) Piper (any one type). 3) child shirt (1/4 size)	4) American decorative a) Glass curtain b) Modern decorative curtain



Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
Annual Teaching Plan (Year: 2021-22)

Month	Class: BA First Year	Class: Second Year	Class: Third Year
	Paper No: Textile & Clothing	Paper No: Food & Nutrition	Paper No:
	Semester: II	Semester: IV	Semester: VI Fundamentals of Art & design
Mar-2022	i) Basic Stitches - Ruffling, hemming back stitch, Hand Embroidery stitches.	i) Planning & Preparation diet for different age group at different socio economics in relation to specific Nutrition	1) Colour Schemes- by colour wheel 2) different type of Colour Schemes
Apr-2022	II Fabric Painting. Preparation of Painting. frame making.	at requirement. 1) Pregnancy. 2) Lactation 3) weaning food.	1) Use of colour scheme in different room 2) flower Arrangement 3) Type of Arrangement.
May-2022	III Preparation of the following item. 1) saree kit- 2) mobile cover 3) small travelling bag.	1) Preschool 2) school going 3) Adolescents 4) Adult- 5) old age	3) floor Decoration Type of Rangoli sanskrit Banti, Crafts Flower & leaves Art
Jun-2022	IV Drafting cutting & stitching of the 1) Yoke Zabra. 2) Self help 3) kitchen apron	III Salad decoration Food Preservation IV Food adulteration.	Modern Rangoli 1) Preparation of Assessments for interior Decorate



Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist Jalna

Annual Teaching Plan (Year: 2021-22)

Name of Teacher: Prof. M. N. Gaikwad

Department of H.A.M.E.S. & C.

Month	Class: F.Y.	Class: S.Y.	Class: T.Y.
	Paper No: I Family Resource Management	Paper No: V Extension Education	Paper No: X Housing & Interior Decoration
	Semester: I	Semester: III	Semester: V
Oct-2021	Unit I Introduction defn, F.R.M. Process F.R.M. factors enhancing management process.	Unit I - Extension Education Types of edu defn differences betn formal & Informal edu origin, scope objective. b) Home & Extension titles	Unit I Housing - factors Selection of site. a) Structural Planning kitchen layout, typed House plan, Vastu-shashtra
Nov-2021	Unit II factors motivating management. Value, Goals, Standard, Decision making. Resources type & characteristics	Home-Ext worker. Unit II Extension Model & Methods. - Teaching aids Innovation, transfer social Indigenization	Unit II lighting & ventilation of Selection type & rooming mtl. lighting for different area. Importance & type of ventilation.
Dec-2021	Unit III Money Management - 1) Concept - of family income type, Importance, type of Budget Steps - 2) Saving & Investment type.	Unit III Community Organization a) Community development b) Role of Govt-N.G.O. Uni, Rural devp & authorities	Unit III Furniture Arrangement - selection & Principle, Arrangement of different rooms. Multipurpose furniture
Jan-2022	Unit IV Consumer Education & Work simplification a) Consumer Education, Problem Rights, Act - b) Work simplification Mundel's law of change.	Unit IV Social Problems Meaning Importance of social problem Unemployment - Poor health & Sanitation.	Unit IV Home furnishing - Curtains type & selection. Floor covering - Rugs & Carpets type & Care.

Matsyodari Shikshan Sanstha's
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Annual Teaching Plan (Year: 2021-22)

Month	Class: <u>First Year</u>	Class: <u>Second Year</u>	Class: <u>Third Year</u>
	Paper No: <u>II food & Nutrition</u> Semester: <u>II</u>	Paper No: <u>VIII food & Nutrition</u> Semester: <u>IV</u>	Paper No: <u>XIV fundamntal</u> Semester: <u>VI of Art & Design</u>
Mar-2022	<u>Unit I</u> food - definition balance diet, function of food, classification of - food group.	<u>Unit I</u> Digestive System → digestion of food - → function of endocrine gland	<u>Unit I</u> Introduction to - foundation of Art- Design, Elements of Art, Principle of Art-
Apr-2022	<u>Unit II</u> Nutritional. Significance of cereals, pulses, oilseed. Vegetable, fruits, milk	<u>Unit II</u> Energy - Meal Planning, factor affecting M.P., Balance diet Menu planning for differ- ent age group.	<u>Unit II</u> The colour. - definition of colour - classification of colour - colour wheel.
May-2022	Meat & Fish: Sugar Spices. <u>Unit III</u> Nutrition. a) diet & Nutrients b) RDA & Malnutrition	<u>Unit III</u> food Preservation. → concept & principle of food P. b) Methods of food preservation	<u>Unit III</u> flower Arrangement - - history, types of flower use of Art, assessment.
Jun-2022	<u>Unit IV</u> - Nutrients classification Macro & Micro Nut - Protein, Carbohydrate, fat, Vitamins, Minerals water	<u>Unit IV</u> food Poisoning a) food Toxins, food hygiene - food adulteration - food Law & consumer Law.	<u>Unit IV</u> floor Decoration (Rangoli) cultural importance. Type of Rangoli;

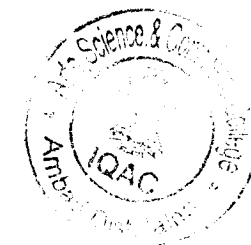


Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna

Annual Teaching Plan (Year: 2021-2022)

Department ofPhysical Education.....

	Class: BAFY	Class: BASY	Class: BATY
Month	Paper: I (101) Philosophical, Sociological Foundations and History of Physical Education.	Paper: IV (201) Health Education and Recreation in Physical Education.	Paper: VII (301) Ancient and Modern History of Physical Education and Sports. Paper: VIII (302) (Main) Sports Psychology and Management in Physical Education.
	Semester: I	Semester: III	Semester: V
Oct-2021	Unit-I: Philosophical Foundations: (a) Meaning and Definition of Philosophy of Physical Education. (b) Component of Philosophy its Application in the field of Physical Education. (c) Traditional and Modern Philosophies their implication in the program of Education. (d) Philosophies of Education applied to Physical Education. (I) Idealism (II) Naturalism (III) Realism (IV) Humanism Unit Test-I	Unit-I: Health Education: (a) Concept and Objectives of Physical Education. (b) Importance of Health Education. (c) Principles of Health Education. Unit-II: Contemporary Health Problems: (a) Abuse of Alcohol and its Effects on Individual, Family and Community. (b) Eating Habits and its Effect on Health. (c) Effect of Drugs and Tobacco on Sports Person. Unit Test – I	Unit-I: Introduction of Physical Education in Ancient India: (a) Vedic Period (b) Epic Period (c) Buddhist Period Unit-II: Physical Education in The State of Sparta and Athens. (a) Physical Education in Ancient Rome. (b) Physical Education and Moral Education. (c) Physical Education in Mughal Period. Unit Test -I Unit-III: Physical Education in India after Independence: (a) Physical Education in British Period. (b) Ancient Olympic Games, Historical Background. (c) Modern Olympic Games.



<p>Nov-2021</p>	<p>Unit-II: Sociological Foundations:</p> <ul style="list-style-type: none"> (a) Sociological Basis of Physical Education. (b) Social Environment for Development of Individual Personality. (c) Socialization and Sports. (d) Social Nature and Social Recognition. <p>Unit-III: Integration of Physical Education with other Faculties:</p> <ul style="list-style-type: none"> (a) Integrations of Physical Education with History. (b) Integration of Physical Education with Psychology. (c) Integration of Physical Education with Sociology. <p style="text-align: center;">Unit Test-II</p>	<p>Unit-III: Family and Health Education:</p> <ul style="list-style-type: none"> (a) Meaning Functions and Importance of Family as a Social Institution. (b) Role of Parents in Child Health. (c) Health Care During Disasters. 	<p>Unit-IV: Government Bodies and Policies in Physical Education:</p> <ul style="list-style-type: none"> (a) Nature and Educational system in Modern India. (b) Education and Physical Education Policies in India. (c) Central Advisory Board of Physical Education. <p style="text-align: center;">Unit Test-II</p> <p>Unit-V: Scheme and Awards Related to Physical Education and sports:</p> <ul style="list-style-type: none"> (a) Arjuna Award (b) Dronacharya Award (c) Rajiv Gandhi Khelratna Award <p>Unit-VI: Institutions of Physical Education in India:</p> <ul style="list-style-type: none"> (a) Y.M.C.A College of Physical Education of Madras. (b) LNIPE Gwalior and NSNIS Patiyala. (c) HVPM Amravati. <p style="text-align: center;">Unit Test-III</p>
<p>Dec-2021</p>	<p>Unit-IV: Nature of Physical Education System:</p> <ul style="list-style-type: none"> (a) Ancient India and Mediaeval India. (b) Physical Education in Ancient Civilization with reference to <ul style="list-style-type: none"> (I) India (II) Greece (III) Rome (IV) Egypt 	<p>Unit-IV: Recreation in Physical Education and Sports:</p> <ul style="list-style-type: none"> (a) Meaning, Need and Scope of Recreation. (b) Principles of Recreation. (c) Types of Recreation . <p style="text-align: center;">Unit Test-II</p>	<p>Paper: VIII (302) Unit-I: Psychology in Physical Education and Sports:</p> <ul style="list-style-type: none"> (a) Meaning, Nature and Scope of Sport Psychology. (b) Importance of Psychology in Sports. (c) Limitation of Psychology in Education. <p>Unit-II: Growth and Development:</p> <ul style="list-style-type: none"> (a) General Nature of Growth and Development. (b) Age and Behavior Characteristics.



	<p>(c) Development of Physical Education with special reference to</p> <ul style="list-style-type: none"> (I) U.S.S.R (II) U.S.A. (III) Germany <p>Unit-V: Physical Education in India during 20th Century.</p> <ul style="list-style-type: none"> (a) Meaning, Definitions, Aims and Objectives of Physical Education. (b) Physical Education Training Institutions. (c) Physical Education after Independence. <ul style="list-style-type: none"> (I) Central Advisory Board of Physical Education (II) All India Council of Sports (AICS) (III) Netaji Subhash National Institute of Sports (NSNIS) (IV) Laxmibai National Institute of Physical Education (LNIPE) (V) Sports Authority of India (SAI) <p>Unit Test-III</p>		<p>(c) Physical, Emotional and Social Development.</p> <p>Unit Test-I</p> <p>Unit-III: Motivation:</p> <ul style="list-style-type: none"> (a) Meaning, Need and its Role in Physical Education. (b) Techniques of Motivation. (c) Psychological Factor Influencing Motivation.
<p>Jan -2022</p>	<p>Unit-VI: Historical Development of Ancient Olympic Games and Modern Olympic Games:</p> <ul style="list-style-type: none"> (a) Philosophy of Olympism and its Impact on Sports Movements in India. (b) Current Trends in Physical Education <ul style="list-style-type: none"> (i) Role of Federations and Associations. (ii) Courses and Coaching Centres (iii) Policies of Central and State Governments for Physical Education and Sports. <ul style="list-style-type: none"> (c) Movements of Akhada and Vyayam Shalas in Maharashtra. 	<p>Unit -V: Planning a Programme of Recreation:</p> <ul style="list-style-type: none"> (a) Urban Recreation Programme. (b) Rural Recreation Programme. (c) Industrial Recreation Programme. <p>Unit-VI: Agencies Promoting Recreation:</p> <ul style="list-style-type: none"> (a) Facilities of Recreation . (b) Organization of Recreation. <p>Unit Test -III</p>	<p>Unit-IV: Management in Physical Education:</p> <ul style="list-style-type: none"> (a) Meaning, Definition and Philosophy of Management. (b) Aims, Objectives and Principles of Management. (c) Functions of Management. <p>Unit Test-II</p> <p>Unit-V: Teaching methods in Physical Education:</p> <ul style="list-style-type: none"> (a) Meaning, Types and Factors Affecting. (b) Presentation Techniques Meaning and Factors. (c) Teaching Aids in Physical Education. <p>Unit-VI: Facilities and Equipments:</p> <ul style="list-style-type: none"> (a) Care and Maintenance and Equipments. (b) Principles of Purchasing Equipments. (c) Office Management, Meaning and Principles.

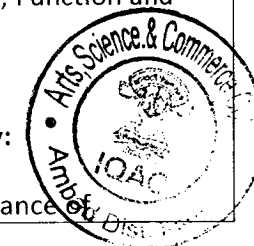


Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
Annual Teaching Plan (Year: 2021-2022)

	Class: BAFY	Class: BASY	Class: BATY
Month	<p>Paper: II (102) Principles and Recent Development of Physical Education.</p> <p>Paper: III (103) Practical Physical Education.</p>	<p>Paper: V (202) Officiating, Coaching and Training Methods in Physical Education.</p> <p>Paper: VI (203) Practical Physical Education.</p>	<p>Paper: IX (303) Organization, Administration and Supervision in Physical Education Youth Welfare and Youth Services.</p> <p>Paper: X (304) (Main) Anatomy, Physiology and Kinesiology of Physical Education.</p> <p>Paper: XI (305) Practical Physical Education.</p> <p>Paper: XII (306) Practical (Main) Physical Education</p>
	Semester: II	Semester: IV	Semester: VI
Feb-2022	<p>Unit-I: Principles of Physical Education:</p> <p>(a) Biological Principles of Physical Education.</p> <p>(b) Sex Differences.</p> <p>(c) Principles of Exercise.</p> <p>(d) Body Types.</p> <p>Unit-II: Sociological Principles of Physical Education:</p> <p>(a) Social Values and Development of Traits.</p> <p>(b) Social Welfare.</p> <p>(c) Physical Education as Sociological Agency.</p> <p style="text-align: right;">Unit Test-I</p>	<p>Unit-I: Officiating of Games and Sports:</p> <p>(a) Meaning and Definition of Officiating .</p> <p>(b) Importance of Officiating in Physical Education and Sports.</p> <p>(c) Qualities of Good Officials.</p> <p>(d) Duties and Responsibilities of Official.</p> <p>(e) Rules and Marking System of Indian and Foreign.</p> <p>Unit Test-I</p> <p>Unit –II: Coaching of games and Sports:</p> <p>(a) Meaning and Definition of Coaching.</p> <p>(b) Importance of Coaching in Games and Sports.</p> <p>(c) Qualities of Good Coach.</p> <p>(d) Duties and Responsibilities of Coaches.</p> <p>Unit Test-II</p>	<p>Unit-I: Organization, Administration and Supervision:</p> <p>(a) Meaning, Scope of Organization and Administration.</p> <p>(b) Objectives of Organization and Administration.</p> <p>(c) Guiding.</p> <p>Unit-II: Organizing and Conducting Tournaments:</p> <p>(a) Different Types of Tournaments and Competition.</p> <p>(b) Knock Out League Tournament.</p> <p>(c) Merits and Demerits of Tournaments.</p> <p>Unit Test-I</p> <p>Unit-III: Intramurals Programme:</p> <p>(a) Need and Importance.</p> <p>(b) Objectives of Intramurals Programme.</p> <p>(c) Methods of Fixture.</p>



<p style="text-align: center;">Mar-2022</p>	<p>Unit-III: Classification of Children:</p> <p>(a) Psychological Bases of Classification.</p> <p>(b) Biological Characteristics of Children.</p> <p>(c) Physiological and Sociological Characteristics of Children.</p> <p>Unit-IV: Recent Development of Physical Education:</p> <p>(a) Status of Physical Education and Sports in Educational Institutions.</p> <p>(b) Physical Education at Pre-Primary and Primary School Level.</p> <p>(c) Physical Education at Secondary and Higher Secondary School Level.</p> <p>(d) Physical Education at University at Professional Level.</p> <p style="text-align: center;">Unit Test-II</p>	<p>Unit-III: Origine and Development of Games and Sports:</p> <p>(a) Fundamental and Advanced Skills of Indian Games.</p> <p>(I) Kabaddi</p> <p>(II) Kho-Kho</p> <p>(III) Wrestling</p> <p>(I) Ball Badminton</p> <p>Unit-IV :Fundamental and Advance Skills of Foreign Games:</p> <p>(II) (a) Volley Ball</p> <p>(III) (b) Soft Ball</p> <p>(IV) (c) Badminton</p> <p>(V) (d) Table Tennis</p> <p style="text-align: center;">Unit Test-III</p>	<p>Unit-IV: Extramural Programme:</p> <p>(a) Need and Importance.</p> <p>(b) Selection and Coaching of Team.</p> <p>(c) Emotional Development of the Students.</p> <p style="text-align: center;">Unit Test-II</p> <p>Unit-V: Supervision in Physical Education:</p> <p>(a) Meaning, Purpose and Scope of Supervision.</p> <p>(b) Objectives and Features.</p> <p>(c) Qualities of Supervisor.</p> <p>Unit-VI: Youth Welfare and Youth Services:</p> <p>(a) Concept of Youth Welfare and Youth Services.</p> <p>(b) Youth Organization in India.</p> <p>(c) Social Services.</p> <p style="text-align: center;">Unit Test-III</p> <p>Paper: X (304) Unit-I: Introduction of Anatomy:</p> <p>(a) Meaning, Need and Importance of Anatomy.</p> <p>(b) Definition of Cell, Meaning in Structure.</p> <p>(c) Blood Composition, Function and Circulation.</p>
<p style="text-align: center;">Apr-2022</p>	<p>Unit-V: Sports and Game Organization in India:</p> <p>(a) District Level Organizations.</p> <p>(b) State Level Organizations.</p> <p>(c) National Level Organizations.</p> <p>(d) International Level Organizations.</p> <p>Unit-VI: Role of Association and Sports Bodies.</p>	<p>Unit-V: Training Methods in Games and Sports :</p> <p>(a) Need of Sports Training.</p> <p>(b) Principles of Sports Training.</p> <p>(c) Factors Affecting the Sports Training.</p> <p>(d) Procedure and planning of Specific Training.</p> <p>Unit-VI: Types of Training Methods in Games and Sports:</p> <p>(a) Weight Training.</p> <p>(b) Circuit Training.</p>	<p>Unit-II: Skeletal System:</p> <p>(a) Types of Bones and its Function.</p> <p>(b) Major Bones of the Body and there Location.</p> <p>(c) Tissue Definition, Structure, Function and Classification.</p> <p style="text-align: center;">Unit Test-I</p> <p>Unit-III: Introduction to Physiology:</p> <p>(a) Meaning, Need and Importance</p>




	<p>(a) Indian Olympic Association (IOA)</p> <p>(b) International Olympic Association (IOA).</p> <p>(c) Sports Authority of India (SAI).</p> <p>(d) Central Advisory Board of Physical Education and Recreation.</p> <p style="text-align: center;">Unit Test-III</p>	<p>(c) Fartlek Training.</p> <p>(d) Interval Training.</p> <p style="text-align: center;">Unit Test-IV</p>	<p>Physiology.</p> <p>(b) Essential Properties of Living Organism.</p> <p>(c) Vital Capacity and its Measurement.</p> <p>Unit-IV: Muscular System:</p> <p>(a) Meaning, Structure Function of Skeletal Muscles.</p> <p>(b) Major Muscles of the Body.</p> <p>(c) Location of Major Muscles.</p> <p style="text-align: center;">Unit Test-II</p> <p>Unit-V: Respiratory System:</p> <p>(a) Structure of Respiratory Organs.</p> <p>(b) Function of Brain.</p> <p>(c) Effect of Exercise on Repertory System.</p>
<p style="text-align: center;">May -2022</p>	<p>Practical Physical Education: Track and Field Events</p> <p>(a) 100 mtrs. Sprint.</p> <p>(b) Long Jump.</p> <p>(c) Shot Put.</p> <p>Opted Game</p> <p>(a) Kabaddi</p> <p>Introduction History of the Game Fundamental Skills of the Game Tactics of the Game Rules and Regulations of the Games Ground Marking System Record Book</p>	<p>Practical Physical Education: Track and Field Events</p> <p>(a) 200 mtrs. Running.</p> <p>(b) Triple Jump.</p> <p>(c) Discuss Throw.</p> <p>Opted Game</p> <p>(a) Volley Ball</p> <p>Introduction History of the Game Fundamental Skills of the Game Tactics of the Game Rules and Regulations of the Games Ground Marking System Record Book</p>	<p>Unit-VI: Introduction to Kinesiology:</p> <p>(a) Definition and Meaning of Kinesiology.</p> <p>(b) Fundamental and Applied Kinesiology.</p> <p>(c) Need and Importance of Kinesiology.</p> <p style="text-align: center;">Unit Test-III</p> <p>Practical Physical Education: Track and Field Events</p> <p>(a) 400 mtrs. Running.</p> <p>(b) High Jump.</p> <p>(c) Javelin Throw.</p> <p>(d)</p> <p>Opted Game</p> <p>(a) Football</p> <p>Introduction History of the Game Fundamental Skills of the Game Tactics of the Game Rules and Regulations of the Games Ground Marking System Record Book</p> <p>Practical Physical Education: Track and Field Events</p>



- (a) 800 mtrs. Running
- (b) Officiating and Coaching and Rules of the Games.
- (c) Yogasanas.
 - (I) Tradasanas
 - (II) Chakrasanas
 - (III) Vajrasanas
 - (IV) Padmasanas
 - (V) Hallsanas
 - (VI) Shawasanas
- (d) Pranayama and Surya Namaskar. Introduction
History of the Game
Fundamental Skills of the Game
Tactics of the Game
Rules and Regulations of the Games
Ground Marking System
Record Book


H.O.D


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Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad DistJalna

Annual Teaching Plan (Year: 2021-22)

Name of Teacher: Dipak B. Rakhunde Department of Mardathi...

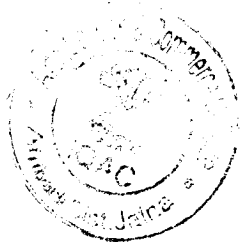
Month	Class: <u>B.A.F.Y.</u>	Class:	Class:
	Paper No: <u>I</u>	Paper No:	Paper No:
	Semester: I	Semester: III	Semester: V
Oct-2021	1) सत्यक रक्षण 2) अर्जवस्त 3) धुकी आणिरत (कनित)		
Nov-2021	4) लुगी सदाचरणने वागा 5) भासा वांघोनि महटिया 6) राजाचे कर्तव्य		
Dec-2021	7) घटक चाचणी-1 8) पाडलेदेवा 9) माणिसर्ज कुळकर्म अरुशीरुफनासिरे		
Jan-2022	10) परमेश्वराची अर्पितव्य 11) आनंदे वोकीया 12) प्रेम काय असते 13) उपयोजित मराठी		



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Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
Annual Teaching Plan (Year: 2021-22)

Month	Class: B.A.F.Y.	Class:	Class:
	Paper No: I	Paper No:	Paper No:
	Semester: II	Semester: IV	Semester: VI
Mar-2022	1) शेवटचे कीर्तन 2) कुवळीण 3) देशाचे भवितव्य		
Apr-2022	4) ग्लोबल भेदकी नदी 5) विणगी		
May-2022	6) दुसरी वाचा 7) कोवळे मरण		
Jun-2022	उपरोक्त मराठी		



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Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna

Annual Teaching Plan (Year: 2021-2022)


Department of Economics
Dr. A.D Nimbalkar

Month	Class: Class:-B.A FY	Class: BASY	Class: BATY	Class: BATY
	Paper: Indian Economy (II)	Paper: Macro Economics III	Paper: Agriculture Economics XII	Paper: Project Work XII
	Semester: I	Semester: III	Semester: V	Semester: V
Oct-2021	Unit I – Structure of the Indian Economy – Introduction Characteristics of the Indian Economy as a less developed economy	Unit I - Introduction: Macro Economics -Definition, nature and scope. Importance and limitations of Macro Economics. Difference between Macro and Micro Economics	Role & Importance Agriculture Development. Linkage between Agriculture & non Agriculture	Project Work
Nov-2021	Features: Natural Resources – Land, Water & Forest, Minerals, Need For Sustainable development, Population- Broad features, size & growth rates sex composition, Birth rate – death rat, Density, Literacy, Age composition, Occupational Distribution, Rural Urban population- Life expectancy, Rural Urban Migration, Problem of over population, Population Policy.	Unit: II - National Income: National Income - Definition and various concepts. Significance and circular flow of national income. Measurement and difficulties in measuring national income. Unit: V - Theory of Trade Cycles: Nature and characteristics of trade cycles. Hawtrey' monetary theory, Hayek' over investment theory,	Sector. Agriculture resources in India. Land utilization. Cropping Pattern. Agriculture growth. &Productivity. contract farming	Project Work
Dec-2021	Unit II – Human Resource Development – Human Development Index (HDI)- concept & meaning, Indicators, Importance, Gender Related Development Index (GDI), Human Poverty Index (HPI), HDI inter country & inter State comparison Unit III – Poverty & Unemployment – Concept of Poverty – measurement of poverty- causes of poverty, Measures to removal of poverty	Keynesian view on trade cycles. Control of trade cycles -monetary and Fiscal measures Unit: III - Theory of Money: Value of money and its measurement. Index Number. Quantitative Theory of Money, Fisher's approach.	Technology in Agriculture. HYV seeds. Water Technology. Green Revolution. Sustainable Agriculture. Dry Land Farming. Size of Holding in India & Maharashtra	Project Work



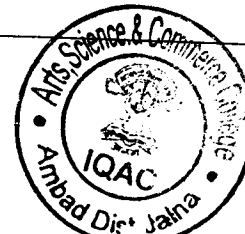
Jan-2022	Measures to removal of poverty Nature & types of Unemployment Unit IV – Planning In India –Background of Indian Planning- National Planning Committee, Bombay Plan, Peoples Plan, Gandhian Plan, The Planning Commission,	Unit: IV - Output and Employment: Classical theories of employment. Keynesian theory of employment aggregate demand function, law of consumption average and Marginal propensity to consume. aggregate supply function, Principle of effective demand: Consumption function - concept, Keynesian Psychological 3 rd semester exam	Agriculture Price Policy. Nature Of demand & Supply Agri Product. Price Instability. Objective of Agriculture Price Policy. Food Security in India .PDS. Agriculture Subsidy. Agriculture Development, employment & unemployment in rural economy. Globalization of Indian economy & effect on Indian Agriculture	Project Work
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Annual Teaching Plan (Year: 2021-2022)

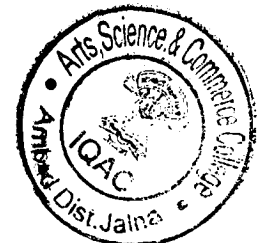
Month	Class: BAFY	Class: BASY	Class: BATY	Class: BATY
	Paper: Money Banking & Finance - IV	Paper: Public Finance	Paper: Research Methodology XIII	Paper: Project Work
	Semester: II	Semester: IV	Semester: VI	Semester: VI
Mar-2022	Unit – I: Meaning & Function of Money: Meaning, Definition and Functions. Types of Money. Paper currency and kinds of Paper currency. Methods of Note Issue – Principles of note issue and Paper Currency Standards. Gresham's Law.	Unit - I: Introduction: Meaning, nature and scope of public finance. Importance of public finance. Difference between private. Public finance. Private public and merit goods. Unit - II: Public Revenue: Course of public revenue. Taxation Direct and	Meaning, nature Scope & Objective of Social research. Concept hypothesis, stages scientific research. Motivating factor of social research	
Apr-2022	Unit – II: Banking in India: Meaning and Definitions of Bank. Banking Structure in India. Commercial Banking – Functions, Credit Creation – process, purpose and limitations, Principles of Commercial Banks Liquidity, Profitability and Safety NABARD. New Concepts in Banking Core banking, ATM, Credit Card, E-banking and Internet banking.	Indirect tax, objectives of taxation, canons of taxation, classification of taxes. Division of tax burden. The benefit theory and ability LO pay theory, impact and incidence and effects of taxation Unit - III: Public Expenditure: Meaning and classification of public expenditure.	Primary data collection. secondary data collection method	Project Work
May-2022	Unit – III: Reserve Bank of India: Meaning and Functions of Reserve Bank of India. Money measures – M1, M2, M3, & M4. Organization and Management of R.B.I. Monetary Policy – Meaning, Objectives Methods of Credit Control – Qualitative and Quantitative.	Principles of public expenditure role of public expenditure in developing economy, effects of public; expenditure Unit - IV: Public Debt: Concept and importance of public debt, Comparison between public debt and private debt Sources,	Meaning & needs of Research Design. Types of Research Design.- Descriptive, exploratory, diagnostic & experimental	Project Work
May-2022	Unit – IV: Money Market Capital Market in India: Meaning, Structure and Functions. Components of Money Market, Role of the Money Market, -Money Market Reforms in India. Capital Market – Meaning, Nature and functions of Indian Capital Market Stock Market – Meaning and functions of stock Market. Functions of Securities Exchanges Board of India (SEBI). 2 nd semester exam	Causes and effects of public debt Debt burden and its management, redemption of bank debt. Unit - V: union Budget Meaning, objectives and components of union budget Types of budget - balanced surplus, deficit and zero base budget, Concept, or Gender Budget. Current Central Government budget of India	One – dimensional diagrams, Two dimensional diagrams .Graphs of time series, Graphs of frequency distribution 6 th semester exam	Project Work



MONT H	Class-Baty Paper-II(op) Sem-I	अभ्यासकमा ची माहिती नाट्य वाङ्मयाचे स्वरूप	अभ्यासकमाची माहिती आर्युक्तिक मराठी वाङ्मयाचा इतिहास 1800 ते 1920	अभ्यासकमा ची माहिती भारतीय साहित्य शास्त्र साहित्याचा स्वरूप इतिहास 1800 ते 1920	अभ्यासकमा साहित्य आढावा निहास याचा मध्यस्थान मराठी वाङ्मयाचा इतिहास	1 सप्टेंबर 2021	ऑक्टोबर र 2021	नाट्यसंहिता नाट्यप्रकार कातलना पंजा दिवाकर कृष्ण चिंती अभिनयाची झाली आहे तीच दिवाकर कृष्ण	लियतकालिका या उदय कथा वाङ्मयाचे स्वरूप वी सी वर्जर यांच्या कथा स्वरूप कथा विशेषण कारण	साहित्य निर्मिती प्रक्रिया प्रतिभा उत्पत्ती अभ्यास व इतर प्रकार कारण जनाबाई पद्यक संपदाय कवी साहित्य पद्यत मग व्याख्यानक	उपर रा. रं. बाराडे असे पात्र संवाद कौशल्य वैशिष्ट्ये सुलगी झाली हे उयाती आपसेकर आशय संवाद	जोईबर 2021
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				विसोबा खेचर नरहरी सोनार गोरा कुंभार
डिसेंबर 2021	यातना उत्सव बापू घोक्षे लेखक परिचय पात्र असे संवाद कौशल्य भाषाशैली लेखन कौशल	घटक चार कादंबरी वाङ्मयाचे स्वरूप विशेष 1857 ते 1885 1885 ते 1920 या काळातील कादंबरी	रसविचार भट्टलोलट श्री शंकूक भट्ट नायक अभिनव गुप्त यांच्या मतांचा विचार शब्दशक्ती अर्थ विचार	संत रामदास यांचे कार्य संत रामदासांची गाथा शाहिरी वाङ्मय प्रेरणा व वैशिष्ट्य पेशवेकालीन बखरी याचा परिचय शिवपूर्वकालीन बखरी
जानेवारी 2022	पेपर दुसरा मुद्रित माध्यमांसाठी लेखन कौशल्य महत्त्व उपयोगिता	पेपर सातवा अभ्यासक्रमाची माहिती आधुनिक मराठी वाङ्मयाचा इतिहास पार्श्वभूमी प्रस्तावना घटक एक नाट्य वाढवण्याचे स्वरूप मराठी रंगभूमी उदय अण्णासाहेब किर्लोस्कर	पेपर बारावा अभ्यासक्रमा ची माहिती घटक एक साहित्यशास्त्र माहिती अभ्यासक्रम घटक साहित्याचे स्वरूप लक्षणे चर्चा	पेपर पंधरावा अभ्यासक्रमा ची माहिती पंडिती साहित्य प्रेरणा स्वरूप
फेब्रुवारी 2022	वृत्तपत्राचे स्वरूप व महत्त्व बातमी लेखन प्रकार बातमी स्रोत्र	घटक दोन काव्यवाङ्मय भाषांतरित कविता केशवसुत व समकालीन कवी	घटक दोन साहित्याचे प्रयोजन पलायनवाद कॅथोलॉसिस आत्मविष्कार जिजासा	पंडिती साहित्य वैशिष्ट्ये पार्श्वभूमी माहिती मुक्तेश्वर
मार्च 2022	स्तंभ लेखन मुलाखत म्हणजे काय मुलाखत	गट क्रमांक तीन चरित्र स्वरूप विशेष 1800 ते 1920	गट क्रमांक तीन साहित्य निर्मितीची प्रक्रिया फ्राईड	वामन पंडित रघुनाथ पंडित साम्राज श्रीधर मोरोपंत



	प्रकार संवाद लेखन अग्रलेख	चरित्र वाङ्मय	युंग प्रेस्कॉट कोलरीज एलियट	शाहिरी वाङ्मय
एप्रिल 2022	स्वरूप महत्त्व समीक्षात्मक लेखन जाहिरात लेखन प्रकार वाचकांची पत्रे निविदा तयार करणे समारोप	आत्मचरित्र स्वरूप विशेष घटक क्रमांक चार मार्क्सवादी साहित्य विचार समाजवादी वास्तववादी बांधिलकी संकल्पना समारोप सराव	गट क्रमांक चार मार्क्सवादी साहित्य विचार समाजवाद वास्तववाद बांधिलकी संकल्पना समारोप सराव परीक्षा	प्रेरणा स्वरूप वैशिष्ट्ये परसराम राम जोशी होनाजी बाळा अनंत फंदी सगनभाऊ प्रभाकर यांच्या वाङ्मयाचा परिचय बखर वाङ्मय शिवकालीन बखर पेशवेकालीन बखर परिचय समारोप परीक्षा

SSKecap

प्रा. एस. एस. प्रधान



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Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
Annual Teaching Plan (Year: 2021-2022)

Department of PSYCHOLOGY

Month	Class: B.A F.Y	Class: B.A F.Y	Class: B.A F.Y
	Paper: General Psychology	Paper: Social Psychology	Paper: Practical
	Semester: I	Semester: I	Semester: I
Oct-21	The Science of Psychology: What is Psychology?- Historical Perspectives in Psychology, Modern Perspectives in Psychology, Scientific Methods, Application: How to enhance your academic performance	Introducing Social Psychology: What Is Social Psychology?, Social Psychology And Related Disciplines, Social Psychology And Human Values, Research Methods : How We Do Social Psychology	Motivation & Emotio Facial expression Knowledge of results Colour Preference
Nov-21	Biological Foundation of Behavior: Neuron: Structure and function, synapse, neurotransmitters, Central Nervous System, Glandular system	Behaviour And Attitudes : Do Our Attitudes Determine Our Behaviour r?, When Does Behaviour Determine Attitudes?, Why Does Our Behavior Affect Our Attitudes?	Sensatwn & Perception Illusion Figure and ground Depth perception
Dec-22	Sensation and Perception: Sensational. Definition of perception, Perceptual constancies: Size, shape and brightness Gestalt principles of perception, Perceptual illusion Application	Conformity: What Is Conformity?, What Are The Classic Conformity Studies?, What Predicts Conformity?, Why Conforms?v) Why Conforms?, vi) How Can We Resist Social Pressure To Conform?	Social Process Social Loafing Scale: k. Religiosity Scale
Jan-22	Motivation and Emotion: Definition of motivation ii. Types of motives. Frustration and Conflict. Emotion, Definition B. Elements of emotion	Group Influence: What Is Group? ii) Social Facilitation: i ii) Social Loafing iv) Deindividuation Group Polarization: Do Groups Intensify Our Opinions? vi) Groupthink:	I. Social distance scale


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Annual Teaching Plan (Year:2021-2022)

Department of PSYCHOLOGY

Month	Class: B.A F.Y	Class: B.A F.Y	Class: B.A F.Y
	Paper: Basic Concepts in Psychology	Paper: Basic Concepts in Social Psychology	Paper: Practical
	Semester: II	Semester: II	Semester: II
Mar-22	Personality: Defi nition of Personality Theories of Personality iii. Assessment of Personality (I), iv. Assessment of Personality (IJ) A. Behavioural assessment a. Observation	Prejudice : Disliking others What Is The Natu re And Power Of Prejudice Ii) What Are The Motivational Sources Of Prejudice? Iv) What Are The Cognitive Sources Of Prejudice? V) What Are The Consequences Of Prejudice?	1. Lea rning &Memory g. Maze Learning b. Recall & recognition
Apr-22	Learning: - i. Definition of learningii. Classical conditioning iii. Operant conditioning iv. Cognitive learning theories	Aggression : Hurting Others I) What Is Aggression? Ii) What Is Some Theories Of Aggression? Iii) What Are Some Influences On Aggression? Iv) How Can Aggression Be Reduced?	2. Intelligence a. Pass along test b. Koh's Block test
May-22	3. Memory: i. Definition and process ii. Types of memory iii. Types of long term memory 4. Intelligence: - i. Definition of intelligenceii. Measurement of intelligence iii. Individual difference in intelligenceiv. Theories of intelligence -	Helping I) Why Do We Help? Ii) When Will We Help? Iii) Who Will Help? Iv) How Can We Increase Helping 4) Social Psychology In Court I) How Reliable Is Eyewitness Testimony? Ii) What Other Factors Influence Juror Judgments?	3. Personality d. Study Habit Test e. 16 PF 4. Social Process b. Social competence scale (SCS g. Comprehensive Scale of Tension


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Annual Teaching Plan (Year: 2021-2022)			
Department of PSYCHOLOGY			
Month	Class: B.A S.Y	Class: B.A S.Y	Class: B.A S.Y
	Paper: Psychology of Adjustment	Paper: Psychological Testing	Paper: Practical
	Semester: III	Semester: III	Semester: III
Oct-21	Interpersonal Communication: I) The Process Of Interpersonal Communication i) Nonverbal Communication Iii) COMMUNICATION PROBLEMS iv) INTERPERSONAL CONFLICT v) APPLICATION	Uses And Implications Of Psychological Testing: I) Functions Of Psychological Tests I i) Nature Of A Psychological Test Iii) Controlling The Use Of V) Examiner And Situational Variables Vi) Effect Of Training On Test Performance Vii) Social And Ethical Implication	i) General Mental Alertness. ii) Teaching Aptitude Test
Nov-21	Friendship And Love: Perspectives On Close Relationships ii. Initial Attraction And Relationship Development. Friendship. Romantic Love	Item Analysis: Item Difficulty II) Item Discrimination Indices Of Item Discrimination IV) Item Response Theory V) Item Analysis Of Speeded Tests VI) Cross Validation	iv) Test of study habits and Attitudes. vi) Leadership Preference Scale
Dec-21	3) Marriage And Intimate Relationship: - . Challenges To The Traditional Model Of Marriage ii. Moving Toward Marriage iii. Marital Adjustment Across The Family Life Cycle iv. Vulnerable Areas In Marital	Reliability Of Psychological Test: I) Definition II) The Correlation Coefficient III) Types Of Reliability: (A) Test-Retest Reliability B) Parallel From Reliability, (C) Split-Half Reliability D) Inter-Item Consistency	Optimistic Pessimistic Scale
Jan-22	Careers And Work: I. Choosing A Career ii. Models Of Career Choice And Development iii. The Changing World Of Work iv. Coping With Occupational Hazards v. Balancing	Validity Of Psychological Tests: I) Meaning Of Validity Ti) Types Of Validity (A) Content Validation (B) Criterion-Related Validation (C) Construct Validation Iii) Comparison Of	A new test of values


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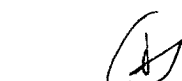
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Annual Teaching Plan (Year: 2021-2022)

Department of PSYCHOLOGY

Month	Class: B.A S.Y	Class: B.A S.Y	Class: B.A S.Y
	Paper: Psychology for Living	Paper: Psychological Statistics:	Paper: Practical
	Semester: IV	Semester: IV	Semester: IV
Mar-22	The Self: - I. Self - Conceptii. Self - Esteem iii. Basic Principles Of Self-Perceptioniv. Self-Regulationv. Self- Presentationvi. Application: Building Self-Esteem	Frequency Distributions: i. Measurement in general ii. Need for grouping iii. Preparation of a frequency table iv. Graphic representations of the frequency distribution a. Histogram b. Frequency Polygon v. Smoothing a polygon	ii) Family relationship scale iv) Marital adjustment questionnaire
Apr-22	Stress And It's Effects: I. The Nature Of Stressii. Major Types Of Stressiii. Responding To Stressiv. The Potential Effects Of Stressv. Factors Influencing Stress Tolerance	Measures Of Central Tendency: i. Mean ii. Computation of the mean a. The long method and b. The short or assumed mean method iii. Median and its computation iv. Mode	ii) Personality Inventory iii) KNPI ii) Revised Adjustment Inventory
May-22	Coping Processes: I. Common Coping Patterns Of Limited Valueii. The Nature Of Constructive Coping iii. Average deviation Iii. Appraisal-Focused Constructive Copingiv. Psychology And Physical Health: - I. Stress, Personality And Illnessii. Habits, Lifestyles, And Healthiii. Reactions To Illness	Measures Of Variability: i. Range ii. Quartile deviation I iii. Average deviation iv. Standard deviation v. Uses of the various measures of variability Measures Of Association: Meaning and types of coefficient of correlation ii) Rank Difference Correlation iii) Product Moment Correlation	vii) Youth problem Inventor- Ego Strength scale viii) Self concept


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Annual Teaching Plan (Year: 2021-2022)

Department of PSYCHOLOGY

Month	Class: B.A T.Y	Class: B.A T.Y	Class: B.A T.Y	Class: B.A T.Y	Class: B.A T.Y
	Paper: Anormal Psychology	Paper: Organizational Psycholoy	Paper: Introduction Counseling	Paper: Project work	Paper: Practical
	Semester: V	Semester: V	Semester: V	Semester: V	Semester: V
Oct-21	Abnormal Behaviour in our times : What is abnormal Psychology? LI Mental Disorders as Maladaptive behaviours. Mental Disorders as Maladaptive behaviours [DSM	Historical context of organizational Behaviour :- J Definition of O.B. 1. Goals and elementsof O.B. 2. Fundamental Concepts 3. Nature of Organization	Definition of Counselling Psychology: ii. goals of counseling iii. Scope of counsel ing	Project work	Local ization of Sound Depth Percepti.on
Nov-21	Causal Factors and Viewpoints in Abnormal Psychology: Cred it 1 What causes Abnormal Behaviour? Necessary, sufficient and contributory causes - Models	Perspectives for understanding O.B.:- D Open system approach D Human Relations perspective D Socio-technical approach	2) Building counseling relationship : a) Factors influencing the counseling process : b) Types of initialinterview:	Project work	3) Retroactive inhibition 4) Paired Associate Learning
Dec-21	Panic, Anxiety and their Disorders: The Fear and Anxiety Response patterns Anxiety Disorders Phobic Disorders	Person in the organization: - D Biographical characteristics Personality Definitions and Measurement C Major Personality	Working in a counseling relationship: Counsellor skills in the understanding and action phases.	Project work	7) Effect of noise on performance 8) Bilateral Transfer of Training
Jan-22	Somatoform and Dissociative Discords: Somatoform Disorder IJ Somatization Disorder Hypochond riasis. D Pain disorder. IJ Conversion disorder. Dissociative	Values, Attitudes and job satisfaction: - I Values: i. Importance of values ii. Types of valuesii i. Values loyalty and ethical behaviour Attitudes:	Termination of counsel ing relationship: function oftermination timing of termination Issues of	Project work	12) Zeigarn ic effect 13) Reaction time


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Annual Teaching Plan (Year: 2021-2022)

Department of PSYCHOLOGY

Month	Class: B.A T.Y	Class: B.A T.Y	Class: B.A T.Y	Class: B.A T.Y	Class: B.A T.Y
	Paper: Psychopathology	Paper: Organizational behavior	Paper: Counseling In Action	Paper: Project work	Paper: Practical
	Semester: VI	Semester: VI	Semester: VI	Semester: VI	Semester: VI
Mar-22	Mood Disorders: -Unipolar Mood Disorders: Normal Depression, Mild to Moderate Depressive Disorder, Major Depressive Disorder o Bipolar Disorder Cvclothymiacs.	The individual in the organization: Moti vation concept Early theories or moti vation Need hierarchy theory Theory x and y Two factor theory MBO Employ involvement	Theories of counseling Psychoanalysis: Humanistic Behavioral counseling Cognitive therapy Bowen systems therapy Crisescounseling	Project work	Small Research Project (Main Students)
Apr-22	Personality Disorders: Personality Disorders Clinical Features of Personality Disorders o Types of personality Disorders Paranoid, schizoid, The Schizophrenias and Delusional	The group and organization: Nature, types, and stages group development D Conditions affecting group functioning of organizational structure Group Structure	2) The Importance of Career of counseling Career information Career development theories and counseling	Project work	1) Adjustmeh Inventory 2) Value Test
May-22	The Schizophrenias and Delusional Disorders: The cl inical picture in schizophrenia Problemsin Defining Sch subtypes of Schizophreni. Mental Retardation: Level of mental Retardation L. o Brain Defects in	Communication in organizations: Communication model,IIBarriers and sources Directions & network Communications and decision Leadership in organizations: Nature and types. Behavioral	Marriage,Couple and Fam ily Counseling: The changing forms of family l life Family life and family life College Counseling and student life Counseling : College counseling Counseling with nontraditional students	Project work	16 PF . Personalit y l nv.:ntcry 5)Achicvemc Sentence CompicTest


Head Of Dept


Principal
Principal
MS's Arts, Science & Commerce College
Ambad Dist Jalna-431204

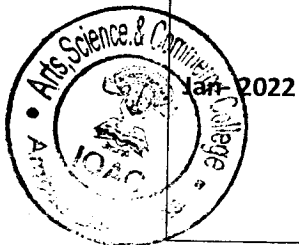
Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad DistJalna

Annual Teaching Plan (Year: 2021-22)

Name of Teacher:

Department of ~~Sociology~~ **Sociology**

Month	Class: BA I st year.	Class: BA II nd year.	Class: BA III rd year.
	Paper No: II	Paper No: VI th	Paper No: X th .
	Semester: I I st	Semester: III	Semester: V
Oct-2021	<p>CHAPTER I</p> <p>(a) Individual society</p> <p>(b) culture (defi, chose)</p> <p>(c) socialization (defi, aims)</p> <p>(d) Agencies of socialization</p> <p>CHAPTER II Social structure</p>	<p>(a) CHAPTER I</p> <p>(b) Emergence of cities.</p> <p>(c) migration</p> <p>CHAPTER II</p> <p>(a) Problems of urbanization.</p> <p>(b) Unemployment.</p>	<p>Chap Ist.</p> <p>(a) Importance of social research.</p> <p>(b) Theory, fact & objectivity.</p> <p>CHAPTER II</p>
Nov-2021	<p>(a) Definition.</p> <p>(b) status, role</p> <p>(c) norms & values.</p> <p>Chap IIIrd Social stratification.</p> <p>(a) meaning and nature.</p>	<p>(a) poverty.</p> <p>(b) crime</p> <p>(c) prostitution.</p> <p>(d) Juvenile delinquency.</p> <p>CHAPTER II</p> <p>* Urban planning & Housing / slums.</p>	<p>TYPES of research.</p> <p>(a) Applied research.</p> <p>(b) Pure research.</p> <p>(c) qualitative research.</p> <p>(d) quantitative research.</p> <p>(e) descriptive research.</p>
Dec-2021	<p>(a) cast system.</p> <p>(b) class system.</p> <p>CHAPTER IV</p> <p>Social change</p> <p>(a) concept, definition.</p>	<p>* urban infrastructure</p> <p>* society of space.</p> <p>CHAPTER IV</p> <p>* Globalization</p> <p>* urban change</p> <p>* Introduction.</p>	<p>CHAPTER III</p> <p>Scientific Research</p> <p>(a) formulation of problem.</p> <p>(b) Hypothesis.</p> <p>(c) sampling technique.</p> <p>(d) data collection.</p>
Jan-2022	<p>(b) factors responsible.</p> <p>(c) Barriers of social change</p> <p>CHAPTER I social control.</p> <p>(a) Definition. (b) Types.</p> <p>(c) conflict</p> <p>REVISION.</p> <p>* TERM EXAM.</p>	<p>(b) meta projects</p> <p>(c) JNU RM.</p> <p>(e) Revision.</p> <p>- TERM EXAM.</p>	<p>(a) data analysis.</p> <p>(b) statement</p> <p>-> Revision.</p> <p>- TERM EXAM.</p>



Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist Jalna

Annual Teaching Plan (Year: 2021-22)

Name of Teacher:

Department of Sociology.

Month	Class: <u>BAIST.</u>	Class: <u>BASY.</u>	Class: <u>BATY.</u>
	Paper No: <u>IV</u>	Paper No: <u>VI</u>	Paper No: <u>XIV</u>
	Semester: <u>II nd</u>	Semester: <u>III</u>	Semester: <u>VI</u>
Oct-2021	<p>Chap I st.</p> <p>(a) Basic of unity in India.</p> <p>(b) form of diversity.</p> <p>(c) India (economy).</p> <p>(d) values of Indian society.</p>	<p>Chap I st.</p> <p>Basic concept.</p> <p>(a) fertility.</p> <p>(b) mortality.</p> <p>(c) density of Population</p>	<p>Chap I st.</p> <p>Techniques of Social Investigation.</p> <p>(a) observation types.</p> <p>(b) questionnaire.</p>
Nov-2021	<p>Chap II nd Indian Population.</p> <p>(a) characteristics, quantitative</p> <p>(b) problem comes Population</p> <p>(c) Population Planning.</p> <p>(d) Population control.</p>	<p>Chap II nd.</p> <p>(a) Population growth.</p> <p>(b) sex ratio</p> <p>(c) female literacy.</p> <p>(d) Age structure.</p>	<p>(c) Interview.</p> <p>Chap II nd.</p> <p>Computer Application and Stat.</p> <p>(a) use of computer.</p> <p>(b) Internet.</p>
Dec-2021	<p>Chap III nd.</p> <p>(a) democracy (chara)</p> <p>(b) social Justice (def)</p> <p>(c) Indian constitution.</p> <p>Chap IV.</p> <p>(a) Baluta system.</p>	<p>Chap III nd.</p> <p>(a) Pre Industrial over</p> <p>(b) Industrial stage.</p> <p>(c) Post Industrial stage.</p> <p>Chap IV Popu, Policy.</p> <p>(a) New Population Policy.</p>	<p>(c) Statistical measure.</p> <p>Chap III nd.</p> <p>(a) To any type of social Problem.</p> <p>(b) To study society.</p> <p>(c) Evolution of welfare scene.</p>
Jan-2022	<p>(b) Changing Nature</p> <p>(c) Importance of land.</p> <p>Santhig</p> <p>- Revision.</p> <p>- Term exam.</p>	<p>(b) family welfare</p> <p>(c) world scenario.</p> <p>Revision.</p> <p>Term exam.</p>	<p>(d) Policy Advocacy</p> <p>Revision</p> <p>- Annual exam.</p>

Dr. S. C. Gadhekar
 Sociology

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Annual Teaching Plan (Year: 2021-22)

Department of Sociology

Name of Teacher:

Month	Class: BA 1st Year 2.	Class: BA 2nd year 2.	Class: BA 3rd year 2.
	Paper No: I	Paper No: II	Paper No: III
	Semester: I	Semester: III	Semester: V
Oct-2021	i) Introduction to sociology Definition, subject matter of Sociology and scope - Development of sociology [world and india] ii) Basic concepts	i) Institutional Issues Disintegration of Rural Family. Problems of Rural women. Domestic Violence	i) Emergence of soci. Thought as period of English theme b) French Revolution c) Industrial Revolution d) Recent trends
Nov-2021	<ul style="list-style-type: none"> Society Social groups Social Institutions Social system 	ii) Education & Health Dropout in Education problem of illiteracy community health and malnutrition	i) The pioneers: August Comte, positivism Law of three stages • Herbert of organism Evaluation
Dec-2021	iii) perspective in sociology structural • Functionalist • Conflict	iii) Rural Economy :- • problem of Landless Labour. Problem of rural Industries. • Developmental projects and displacement.	• Durkheim: Theory of suicide Social Fact, the classical Tradition Karl Marx :- Historical materialism
Jan-2022	The use of sociology • Analysis of social Problem. • Evaluation of social change • social policy & action	iv) Major issues in development • Rural unemployment • Corruption in Govt. Schemes. Indebtness exam.	b) Max Weber! Theory of Authority Analyses of spirit of capitalism. protestant Ethics exam.

Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
 Annual Teaching Plan (Year: 2021-22)

Month	Class:	Class:	Class:
	Paper No:	Paper No:	Paper No:
	Semester: II	Semester: IV	Semester: VI
Mar-2022	1) Sociology and society • Urban sociology • Nature and scope of Urban sociology • Significance of urban	1) Conceptual perspectives on development: Development & under development • Sustainable development	1) Functionalism 2) Stochastic persons 3) Social system Robert Merton:
Apr-2022	• Rural sociology: subject matter, Significance sociology & Interaction. Social psychology matter	• Social Audit Development Issues • Gender & development • Problem of weaker	Role set • Reference group 2) Lewis Coser - Functions of social conflict.
May-2022	Nature & scope, subculture @ Sociologists culture. Anthropology meaning • Scope of development.	1) Development Approaches • Capitalist view • Socialist view • Mixed Approach	1) Rolf Dahrendorf class conflict in Industrial society power and Authority
Jun-2022	1) Applied form of sociology • Applied sociology • Industrial sociology revision Exam.	1) Consequences of Lip development material revision Exam	1) Symbolic interaction G. A. Cooley: Looking glass self Function of self Exam

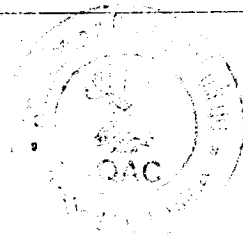
D.S.L. Gadhekar.
 Sociology.

Principal
 MSS's Arts, Science & Commerce College
 Ambad Dist. Jalna-431204

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Matsyodari Shikshan Sanstha's
 Arts, Science & Commerce College, Ambad Dist. Jalna
 Annual Teaching Plan (Year: 2021-2022)

Month	Class: F.Y.B.A. Paper: I st Semester: I st	Class: S.Y.B.A. Paper: II Semester: III rd	Class: T.Y.B.A. Paper: X Semester: V	T.Y.B.A. XI VI
OCT	Basic concept of Pol- sci state: meaning & nature Elements of state Theories of origin of state	Indian Government & Politics Indian constitution, sources, preamble Features. Constitutional provisions Fundamental Right Directive Principles of state & Policy	Western political thought Plato:- views on Justice Communism, Education Ideal state Aristotle:- views on state Citizenship Revolution	Political ideologies Nationalism Meaning, scope Nature, feature Liberalism meaning scope, feature
NOV	Divine Theory, social Contract Theory Evolutionary Theory	Union Government President, Parliament, Prime Minister Functions & Powers.	Niccolo Machiavelli Human Nature, Advice to Prince, views on Religion and Morality.	Democracy:- Meaning Merits & Demerits Kinds of Democracy Features
DEC	Government:- Meaning & Definition organ of Government Legislature Executive & Judiciary Types of Government unitary, federal parliamentary presidential	Budgetary Process & Parliamentary Committees. Budgetary Process Public Accounts Committee, Estimate Committee	Thomas Hobbes Human nature, social Contract theory and concept of sovereignty	Imperialism Meaning, scope Nature, feature
JAN	sovereignty:- meaning Definition and types Austin Theory of sovereignty Pluralistic Theory of sovereignty Citizenship Rights:- meaning & types and Acquisition meaning Definition types of Rights & duties.	Constitutional Institutions Attorney General Comptroller and Auditor General	John Locke Human nature, social Contract theory idea of Right	feminism: meaning nature, features



Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
 Annual Teaching Plan (Year: 2021-2022)

Month	Class: F.Y.B.A. Paper: III rd Semester: II nd	Class: S.Y.B.A. Paper: VII Semester: IV	Class: T.Y.B.A. Paper: XIV Semester: VI	T.Y.B.A. XV VI
MAR	<u>Basic concept of Pol-sci</u> Liberty, Equality and Justice Meaning & Definition TYPE OF Liberty, Equality and Justice Right: - meaning and Nature TYPE OF RIGHTS.	<u>Indian Government and Politics</u> Structure, Powers and functions Powers of Judicial Review. Center-state Relations Legislative, Administrative, Financial	<u>Western Political thinkers</u> Jean Jacques, Rousseau HUMAN NATURE Social Contract Theory idea of General will	<u>Political ideologies</u> Socialism: meaning development, features critical review
APR	<u>Democracy:-</u> meaning and features Direct and indirect Democracy	<u>Ideology and Program of political parties in India</u> feature, of Party system in India India National Congress Party Bharatiya Janta Party Communist Party	<u>John Stuart Mill</u> idea of Liberty Representative Government <u>Jeremy Bentham</u> views on state, government and Rights ideas on law	<u>Communism: meaning</u> development, features critical review Fascism: meaning development features critical review
MAY	<u>Merits and demerits of Democracy</u> <u>Welfare State:-</u>	<u>Election Commission and electoral reforms</u> Composition, power, functions role and importance Electoral reforms in India	<u>and Rights Reform</u> and punishment Theory of utilitarianism <u>Karl Marx: Dialectical Materialism & Materialist interpretation of History</u>	<u>Anarchism:</u> meaning, development features, critical review
	Meaning and features obligatory and optional functions.	<u>Challenges before Indian Democracy</u> Corruption Casteism, Communalism Regionalism.	<u>Theory of class struggle or surplus value</u> view on state and Revolution <u>Karl Laski: pluralistic</u> Theory of sovereignty, Liberty	<u>Environmentalism</u> Meaning development features, critical review.



Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad DistJalna

Annual Teaching Plan (Year: 2021-22)

Name of Teacher: Paithane R.D.

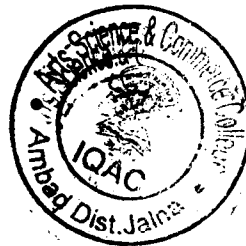
Department of Political Science

Month	Class: F.Y.B.A. Paper No: II Semester: I	Class: S.Y.B.A. Paper No: VI Semester: III	Class: T.Y.B.A. Paper No: IX Semester: V
Oct-2021	Government & politics in Maharashtra - Introduction - sanyukt maha. movement - Introduction - Reorganization commissions - nature, Ideological Basis of movement.	International Relation - - Introduction - Meaning & Definition - Nature & scope - FMP of Inte. Rela. - Significance of Inte. Rela.	Indian Political Thinkers <u>Rajaram Mohan Ray</u> - - Introduction - Political Thought. - Religious & social Thought - Thought on Nationalism
Nov-2021	Organization of Government <u>Execu - Chief Minister - Comp.</u> - Governor - Composition, Power <u>Legislatu - Lower & Upper House - Nature, Composition, power & Function</u>	<u>Idealist App -</u> - Meaning & Nature - Feature, Demerits <u>Realist Approaches - Mean</u> - principal & Feature <u>Behvi App. - meaning & Feature</u>	<u>Dayanda Sarsawati</u> - - Thought on Nationalism - social & Political Thought <u>Lokmanya Tilak</u> - - Political Thought + - Four Point Program
Dec-2021	<u>Judiciary - meaning, High Court - Structure, Power & Function</u> <u>Cooperatve movement -</u> - meaning & Nature - Cooper. Society & Merits & Demerits	<u>National Interest -</u> - Meaning & Nature - Determinants <u>National Power - meaning</u> - Nature, Element, feature <u>Balance of Power - meaning</u> - techniques, types	<u>Tilak - Religious Thought</u> - social Thought, Economics Thought, Thought on Nationalism <u>Gokhale G.</u> - - Political & social Thought - Religious Thought - Thought on Nationalism
2022	<u>Fininept Movement -</u> - Nature & scope <u>Present movement -</u> - Nature & scope	<u>Relevance of Balance of power.</u> <u>Indian Foreign Policy</u> - Nature, object - principal	<u>M.K. Gandhi - Introduction</u> - Political & social Thought - Religious Thought. - Ideal State - Non Violence - Economics Thought - satyagraha.



Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
 Annual Teaching Plan (Year: 2021-22)

Month	Class: F.Y.B.A.	Class: S.Y.B.A.	Class: T.Y.B.A.
	Paper No: IV	Paper No: VIII	Paper No: XIII
	Semester: II Gov. & Pol. in Maha	Semester: IV Inte Relation	Semester: VI Ind. Pol. Thought
Mar-2022	<u>Panchayat Raj System</u> - Introduction, Nature and Committees <u>Grampanchayat - Compo.</u> - Power & function	<u>UN & Collective Security</u> - Introduction, Meaning. - Definition, Nature - Basic principle, feature UN & collective security	<u>Mallana Azad</u> - Introduction - Political thought. - View on Religion - View on Nationalism - View on Hindu-Muslim Unity
Apr-2022	<u>Panchayat Samiti</u> - Composition, power & function <u>Zilla Parishad</u> - composition	<u>Deterrence - Meaning</u> - Nature & Feature, Types - Basic principle <u>Major Issue in con. politics</u> <u>Terrorism - Types & way</u> - Reasons & principle.	<u>J. Nehru - Democracy</u> - Thought on Nationalism Socialism & Internationalism <u>M.N. Roy - Democracy</u> - Critiques on Marx and Radical Humanism
May-2022	<u>Z.P. - Committees</u> - Composition, power & function president - power and function <u>Political Parties - Intro.</u> - Features & Ideology	<u>Environmentalism</u> - Meaning & Nature <u>Regional Org. - SAARC</u> ASEAN, NAFTA, Compositi <u>Inter. Org.</u> - IMF, WTO, World Bank - Function	<u>Dr. B.R. Ambedkar - Ideology</u> on Democracy, Society, Eco. - Religious & social thought. <u>J.P. Narayan - socialism</u> - Thought on Hool Relevance - Janta Sarkar thought
Jun-2022	<u>Parties - Program</u> Congress, BJP, RPI Shiv Sena, NCP. CPM.	<u>Non Alignment Movement</u> - Meaning & Nature - principle & objects - merits	<u>Narayan - political</u> Thought. Test



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Month	Class: B.A. F.Y. Paper: Hindi-SL Semester: I	Class: B.Sc. F.Y. Paper: Hindi-SL Semester: I	Class: B.Com. F.Y. Paper: Hindi-SL Semester: I	Class: B.A. F.Y. Paper: Hindi-I (OPT) Semester: I	Class: B.A. F.Y. Paper: Hindi-II (OPT) Semester: I
Jan	पाठ्यक्रम जानकारी - कथासंसार-सम्पा. डॉ. माधव सोनटके समाविष्ट कहानियाँ	पाठ्यक्रम जानकारी - कथासंसार-सम्पा. डॉ. माधव सोनटके समाविष्ट कहानियाँ	पाठ्यक्रम जानकारी - कथासंसार-सम्पा. डॉ. माधव सोनटके समाविष्ट कहानियाँ	उपन्यास साहित्य का अध्ययन - उपन्यास विधा का परिचय - उद्भव एवं विकास	नाटक साहित्य का अध्ययन - नाटक विधा का परिचय - उद्भव एवं विकास
July	- स्त्री और पुरुष-प्रेमचंद - हार की जीत-सुदर्शन - दो बाँके-भगवतीचरण वर्मा	- स्त्री और पुरुष-प्रेमचंद - हार की जीत-सुदर्शन - दो बाँके-भगवतीचरण वर्मा	- स्त्री और पुरुष-प्रेमचंद - हार की जीत-सुदर्शन - दो बाँके-भगवतीचरण वर्मा	- हिंदी उपन्यास : स्वरूप / विकास * अमिता-शशापाठ - शशापाठ, व्यक्तित्व / कृतित्व	* विजयपर्व-डॉ. ममकूमर वर्मा - व्यक्तित्व / कृतित्व - कथानक, पात्र, देशकाल - संवाद, उद्देश्य
Aug	- गौरी-सुमद्राकुमारी - एटमबम-अ.नागर - पंचमईट-फ.रेणू - परखपरिक्षा	- गौरी-सुमद्राकुमारी - एटमबम-अमृतकान्त - पंचमईट-फ.रेणू - परखपरिक्षा	- गौरी-सुमद्राकुमारी - एटमबम-अमृतकान्त - पंचमईट-फ.रेणू - परखपरिक्षा	- अमिता-कथानक, - पात्र-चरित्र-चित्रण, - देशकाल वातावरण - संवाद * परखपरिक्षा	अभिधा * होरी-प्रेमचंद व्यक्तित्व / कृतित्व - कथानक - परखपरिक्षा
Sep	- अपरिचित-मोहनराजेश * हिंदीभाषा : - उद्भव/विकास - देवनागरी लिपि : स्वरूप - परखपरिक्षा	- अपरिचित-मोहनराजेश * हिंदीभाषा : उद्भव एवं विकास - देवनागरी लिपि : स्वरूप - परखपरिक्षा	- अपरिचित-मोहनराजेश * हिंदीभाषा : उद्भव एवं विकास - देवनागरी लिपि : स्वरूप एवं - परखपरिक्षा	- भाषाशैली, उद्देश्य * आपकावंची-मन्मूर्तझरी - व्यक्तित्व / कृतित्व - कथानक - पात्र	- पात्र, देशकाल - संवाद, भाषाशैली - उद्देश्य * आत्म्यआजारी की-सिंह व्यक्तित्व/कृतित्व
Oct	- एवं विकास - हिंदीवर्तनी - पारिभाषिक शब्दावली स्वरूप और समस्यार्षे	- एवं विकास - हिंदीवर्तनी - पारिभाषिक शब्दावली स्वरूप और समस्यार्षे	- एवं विकास - हिंदीवर्तनी - पारिभाषिक शब्दावली स्वरूप और समस्यार्षे	- चरित्र-चित्रण - देशकाल वातावरण - संवाद - उद्देश्य * अभिधा	- कथानक पात्र - चरित्र - देशकाल वातावरण - संवाद, भाषाशैली उद्देश्य

1) प्रा. डॉ. विनोद जाधव F.Y. (SL) B.A., B.Sc

2) प्रा. डॉ. गणेश निवार F.Y. (SL) B.Com, B.A. F.Y. OPT I

3) प्रा. डॉ. रत्नाकर हुसे F.Y. (OPT) II

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2021-22

Month	Class: B.A.F.Y. Paper: Hindi SL Semester: II	Class: B.S.C.F.Y. Paper: Hindi-SL Semester: II	Class: B.Com.F.Y. Paper: Hindi-SL Semester: II	Class: B.A.F.Y. Paper: Hindi-I (OP) Semester: II	Class: B.A.F.Y. Paper: Hindi-II (OP) Semester: II
Nov	कथासँसार-सम्पा.डॉ. माधवसोनटकेके समाविष्ट कथानियाँ - धर की तलाश-राजेद्रयादव	कथासँसार : सम्पा.डॉ. माधवसोनटकेके समाविष्ट कथानियाँ - धर की तलाश-राजेद्रयादव	कथासँसार : सम्पा.डॉ. माधवसोनटकेके समाविष्ट कथानियाँ - धर की तलाश-राजेद्रयादव	* हिंदी गद्यसाहित्य - कथायात्रा डॉ.माधवसोनटके - जमींदार का दृष्टान्त - एक वेकरीअर मिट्टी - उसने कहा था	* एकांकी साहित्य - एकांकी नये पुराने : स्वरूप भेद - हिंदी एकांकी विकास - कृष्ण एवं शीतलगत अख्ययन
Dec	- कुसबे का आदमी-उमरेश्वर - पोस्टमैन-मरिथानी - छुट्टी का दिन- उषा प्रियवंदा	- कुसबे का आदमी-उमरेश्वर - पोस्टमैन-मरिथानी - छुट्टी का दिन- उषा प्रियवंदा	- कुसबे का आदमी - पोस्टमैन-मरिथानी - छुट्टी का दिन- उषा प्रियवंदा	- नैराश्य - छुरसकार - वह सौंप - परमाना का कुत्ता - ठेस	- शरणागत-लक्ष्मीनारायण - मधुभारत की एक सौंध - कोल डस्ट - पडोसिन का कोर
Jan	- गुमशुदा की तलाश - मातृजीनेशी - दूज का टीका-सुर्यबाण परख परिक्षा	- गुमशुदा की तलाश-मा.जोशी - दूज का टीका-सुर्यबाण - परख परिक्षा	- गुमशुदा की तलाश - दूज का टीका-सुर्यबाण - परख परिक्षा	- फ्रेसना - सपना * कागभगौड़ा-परसाई - परख परिक्षा	- कुंवारी धरती * प्रतिनिधि महिला एकांकी - एक और दिन - परख परिक्षा
Feb	- मैशहर और वे- - नैमिशराय - संक्षेपण - पल्लवण	- मैशहर और वे- - मोहनदास नैमिशराय - संक्षेपण - पल्लवण	- मैशहर और वे - मोहनदास - संक्षेपण - पल्लवण	- परख परिक्षा - डिप्टी कमिश्नर - एक लफ्फा आदमी - अमशनकारी - एक दीक्षांत भाषण	- जान से ध्यारे - उष्मा - कलाकार और नारी
March	- पत्राचार - कम्प्युटर में हिंदी का प्रयोग - अनुवाद स्वरूप और भेद	- पत्राचार - कम्प्युटर में हिंदी का प्रयोग - अनुवाद स्वरूप और भेद	- पत्राचार : - कम्प्युटर में हिंदी का प्रयोग - अनुवाद स्वरूप और भेद	- रामसिंह की ट्रेनिंग - दिल्लीयात्रा - विज्ञापन में विकृती नारी - सफाचार का ताबीज	- कपिलवस्तु की राजवधु - कमाई किसकी



(Signature)

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Matsyodari Shikshan Sanstha's
Arts, Science & Commerce College, Ambad Dist. Jalna
Annual Teaching Plan

2021-22

Month	Class: B.A.S.U Paper: Hindi-SL Semester: I	Class: B.Sc.S.U Paper: Hindi-SL Semester: I	Class: B.Com.S.U Paper: Hindi-SL Semester: I	Class: B.A.S.U Paper: Hindi-III opt Semester: I	Class: B.A.S.U Paper: Hindi-IV opt Semester: I
Jun	पाठ्यक्रम जानकारी * गद्यके विविध आयाम संपा. जयमोहन	* गद्यके विविध आयाम - संपा. प्रो. जयमोहन	भाषा और भाषा शिक्षण - भाषा : तात्पर्य स्वरूप - भाषा प्रकार्य - भाषा विविध रूप - भाषा शिक्षण प्रक्रिया	पाठ्यक्रम जानकारी गद्य प्रश्ना : सं. आलोचक गुणा - त्यागमूर्ति निराळा : संस्मरण - जीवन का व्यवसाय : नारीलेख	* चुनी हुई लंबी कविताएँ - औसु - प्रसाद - सरोजस्मृति - निराळा
July	- आत्मवृत्त : मेरा जीवन - रेखाचित्र : नीलकंठ भोर - संस्मरण : कमला	- आत्मवृत्त : मेरा जीवन - रेखाचित्र : नीलकंठ भोर - संस्मरण : कमला	* प्रयोजनमूलक भाषा - तात्पर्य एवं स्वरूप - विशेषताएँ - विभिन्न रूप - हिंदी भाषा का महत्व	- फणीश्वरनाथ रेणु : संस्मरण - वे बघदुरी से बिके : व्यंज - सुख : कदली - नखिया गहरी नाव पुरानी	- भाषा की रात - धुमिल - एक शब्द तिनका - ठीला घर जुगुप्सि
Aug	- निबंध : शिरीष के फूल - यात्रावृत्त : यक्षों पर चादनी - चाचणी परिक्षा	- निबंध : शिरीष के फूल - यात्रावृत्त : यक्षों पर चादनी - चाचणी परिक्षा	* वाणिज्य-व्यवसाय हिंदी - व्यापार के साधन - आर्थिक प्रकार्य - चाचणी परिक्षा	* गद्य गौरव - ई.रा. स्वामी - रिहई - बेनीपुरी - महात्मा गांधी - वर्मा - चाचणी परिक्षा	- केशरी आया दे गोँव - अमर कोठी - चाचणी परिक्षा
Sep	- प्रयोजनमूलक भाषा * भाषा का स्वरूप एवं महत्व * भाषा की परिभाषा - भाषा शिक्षण : स्वरूप - भाषा की शैली	- प्रयोजनमूलक भाषा - भाषा का स्वरूप एवं महत्व - भाषा की परिभाषा - भाषा शिक्षण	* व्यावसायिक संप्रवेश - तात्पर्य एवं स्वरूप - व्यावसायिक पत्राचार - विशेष व्यावहारिक पत्र	- शाहदत की सिदगी के दुकान में - निराळा भाई - बडा ठोस आदमी है	* धुमिजा (खंड काव्य) - नागार्जुन - कथानक - पात्र
Oct	- व्यावसायिक हिंदी - वाणिज्य व्यापार के साधन - पत्र लेखन, आर्थिक प्रकार्य - निबंध लेखन	- व्यावसायिक हिंदी - व्यापार के साधन - पत्र लेखन, आर्थिक प्रकार्य, निबंध लेखन	* निबंध लेखन - तात्पर्य एवं स्वरूप - व्यावसायिक/आर्थिक विषय पर निबंध	- मुक्ति बोध - परसाई - मेरा हमदर्द मेरा दोस्त	- चरित्र-चित्रण - संवाद - भाषाशैली - हृदयेश्वर

- 1) प्रा. डॉ. विनोद जाधव B.A., B.Sc (CSL) III, IV, (OPT) VI, VII
2) प्रा. डॉ. रत्नाकर कुसे B.A., B.Com (CSL) III (OPT) VI, VII

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2021-22

Month	Class: B.A.S.Y. Paper: Hindi-SL Semester: II	Class: B.S.C.S.Y. Paper: Hindi-SL Semester: II	Class: B.Com.S.Y. Paper: Hindi-SL Semester: II	Class: B.A.S.Y. Paper: Hindi III opt Semester: II	Class: B.A.S.Y. Paper: Hindi IV (opt) Semester: II
Nov	ग्रह के विविध आचामः प्रो. जयमोहन डायरी : स्त्रीधर	डायरी : स्त्रीधर	* वाणिज्य व्यापार : लेखन पक्ष - प्राप्तपण - टिप्पण - संक्षेपण - प्रतिवेदन	हिंदी भाषा स्वल्पः विकास - नामकरण विभिन्न रूप - भारतीय आर्य भाषा - आंतरराष्ट्रीय परिदृश्य	पारिभाषिक शब्दावली - निर्धारण के सिद्धांत - विविध शृंखलाओं - समस्याएँ एवं समाधान
Dec	- व्यंज्य : कर्कश गद्य - रिपोर्टज : जहाँ आकाश नहीं दिखाई देता	व्यंज्य : कर्कश गद्य - रिपोर्टज : जहाँ आकाश दिखाई देता	* बेकिंग और हिंदी भाषा - सामान्य परिचय - हिंदी का प्रयोग * लेखकार्य / वही खाना	* हिंदी भाषा का मानकीकरण - मानक भाषा संकल्पना - लेखन विशेषताएँ - विकास यात्रा	* राजभाषा हिंदी - अवधारणा स्वल्प - राजभाषा, राष्ट्रभाषा - सांविधानिक प्रावधान - प्रचार एवं प्रसार
Jan	- निबंध : कुरीतियों परिहार नहीं - जीवनी : स्वामी स्वामी - चायणी परिक्षा	- निबंध : कुरीतियों परिहार नहीं - चायणी परिक्षा	- उद्देश्य और प्रकार - लेखन प्रक्रिया - खाता नहीं - तल्पट का स्वल्प - चायणी परिक्षा	* देवनागरी लिपि : - उद्भव विकास - वैज्ञानिकता - चायणी परिक्षा	* प्रयोजनमूलक हिंदी - प्राप्तपण - टिप्पण - चायणी परिक्षा
Feb	- मीडिया लेखन - समाचार, रेडियो, फ्लिकर - वैज्ञानिक, तकनीकी हिंदी	- मीडिया लेखन - समाचार रेडियो, फ्लिकर - वैज्ञानिक तकनीकी हिंदी	* वाणिज्य व्यापार और मीडिया - जनसंचार माध्यमः विविध रूप - मीडिया लेखन के प्रकार * व्यावसायिक अनुवाद	- इलेक्ट्रॉनिक माध्यम - उभरे देवनागरी भाषा * प्रयोजनमूलक हिंदी - स्वल्प एवं विशेषताएँ	- संक्षेपण - प्रतिवेदन - समाचार * प्रयोजनमूलक अनुवाद
March	- पारिभाषिक शब्दावली सिद्धांत / प्रयोग - अशुद्धि शोधन - शब्द वाक्य भ्रंश	- पारिभाषिक शब्दावली सिद्धांत / प्रयोग - अशुद्धि शोधन - शब्द वाक्य भ्रंश	- अनुवाद स्वल्प एवं भेद - अनुवाद प्रक्रिया - बेकिंग अनुवाद - मीडिया अनुवाद	- परिभाषा, विशेषताएँ - प्रयोग क्षेत्र एवं प्रयुक्तियाँ	- अनुवाद : स्वल्प प्रक्रिया - कार्यक्षम अनुवाद - वैज्ञानिक अनुवाद - जनसंचार माध्यम


- 1) प्रा. डॉ. विनोद जाधव B.A. TY (OPT) IX, XIII
- 2) प्रा. डॉ. गणेश निवासे B.A. TY (OPT) X, XIV
- 3) प्रा. डॉ. रामाकर हुसे B.A. TY MAN XII, XIV, XV, XI

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 Annual Teaching Plan - 1

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Month	Class: तृतीय वर्ष	Class: तृतीय वर्ष	Class: तृतीय वर्ष	Class: तृतीय वर्ष
	Paper: IX	Paper: IX	Paper: XI	Paper: XII
	Semester: प्रथम सत्र V	Semester: प्रथम सत्र V	Semester: प्रथम सत्र V	Semester: प्रथम सत्र V
Jun	प्रदेशीय साहित्य साहित्य इतिहास - साहित्य जीवन मूल्यों के प्रति आस्था प्रदेशीय भाषा का विकास परिचय -	आदि नव नव कालिक हिंदी साहित्य का विकास हिंदी साहित्य परंपरा का परिचय • पाठ्यक्रम - विवेकानंद -	साहित्य 21147 साहित्य विभाग - 1, कल्याण साहित्य विभाग - कल्याण का परिचय - पाठ्यक्रम - प्रवेश प्रक्रिया आदि -	प्रथम वर्ष लेखन विवेकानंद - पाठ्यक्रम - विवेकानंद
July	1) महादेव साहित्य - महादेव का प्रथम साहित्य सामान्य परिचय - महादेव साहित्य विभाग विकास - आदि - 2) साहित्य - इतिहास - वि. म.	1) हिंदी साहित्य विभाग: लेखन समय का परिचय 2) साहित्य विभाग: सामान्य, साहित्य विभाग, साहित्य परंपरा साहित्य: विवेकानंद, आदि, साहित्य, आदि साहित्य	1) साहित्य का परिचय: साहित्य - साहित्य, साहित्य, हिंदी साहित्य - साहित्य परंपरा परिचय - 2) साहित्य का परिचय: सामान्य, साहित्य	विषय कार्य - विविध सामान्य कार्य -
Aug	1) मुक्ति का साहित्य - 2) प्रथम साहित्य परंपरा का परिचय 3) साहित्य - इतिहास - वि. म. 4) साहित्य - इतिहास - वि. म.	1) साहित्य विभाग: सामान्य, साहित्य विभाग, साहित्य परंपरा साहित्य: विवेकानंद, आदि, साहित्य, आदि साहित्य	1) साहित्य का परिचय: साहित्य - साहित्य, साहित्य, हिंदी साहित्य - साहित्य परंपरा परिचय - 2) साहित्य का परिचय: सामान्य, साहित्य	विषय कार्य - विविध सामान्य कार्य -
Sep	1) साहित्य - इतिहास - वि. म. 2) साहित्य - इतिहास - वि. म. 3) साहित्य - इतिहास - वि. म. 4) साहित्य - इतिहास - वि. म.	1) साहित्य विभाग: सामान्य, साहित्य विभाग, साहित्य परंपरा साहित्य: विवेकानंद, आदि, साहित्य, आदि साहित्य	1) साहित्य का परिचय: साहित्य - साहित्य, साहित्य, हिंदी साहित्य - साहित्य परंपरा परिचय - 2) साहित्य का परिचय: सामान्य, साहित्य	विषय कार्य - विविध सामान्य कार्य -
Oct	1) साहित्य - इतिहास - वि. म. 2) साहित्य - इतिहास - वि. म. 3) साहित्य - इतिहास - वि. म. 4) साहित्य - इतिहास - वि. म.	1) साहित्य विभाग: सामान्य, साहित्य विभाग, साहित्य परंपरा साहित्य: विवेकानंद, आदि, साहित्य, आदि साहित्य	1) साहित्य का परिचय: साहित्य - साहित्य, साहित्य, हिंदी साहित्य - साहित्य परंपरा परिचय - 2) साहित्य का परिचय: सामान्य, साहित्य	विषय कार्य - विविध सामान्य कार्य -


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विद्यया ऽमृतमश्नुते
Arts, Science & Commerce College, Ambad Dist. Jalga
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2021-22

Month	Class: तृतीय वर्ष Paper: XIII Semester: ५०२ भाग VI	Class: तृतीय वर्ष Paper: XIV Semester: ५०२ भाग VI	Class: तृतीय वर्ष Paper: XV Semester: ५०२ भाग VI	Class: तृतीय वर्ष Paper: XVI Semester: ५०२ भाग VI	Class: Paper: Semester:
Nov	१) एकात्मिकता का अर्थ २) आधुनिकता का अर्थ ३) आधुनिकता का अर्थ ४) आधुनिकता का अर्थ	१) आधुनिकता का अर्थ २) आधुनिकता का अर्थ ३) आधुनिकता का अर्थ ४) आधुनिकता का अर्थ	१) आधुनिकता का अर्थ २) आधुनिकता का अर्थ ३) आधुनिकता का अर्थ ४) आधुनिकता का अर्थ	विद्यया ऽमृतमश्नुते आधुनिकता का अर्थ आधुनिकता का अर्थ	
Dec	१) आधुनिकता का अर्थ २) आधुनिकता का अर्थ ३) आधुनिकता का अर्थ ४) आधुनिकता का अर्थ	१) आधुनिकता का अर्थ २) आधुनिकता का अर्थ ३) आधुनिकता का अर्थ ४) आधुनिकता का अर्थ	१) आधुनिकता का अर्थ २) आधुनिकता का अर्थ ३) आधुनिकता का अर्थ ४) आधुनिकता का अर्थ	विद्यया ऽमृतमश्नुते आधुनिकता का अर्थ आधुनिकता का अर्थ	
Jan	१) आधुनिकता का अर्थ २) आधुनिकता का अर्थ ३) आधुनिकता का अर्थ ४) आधुनिकता का अर्थ	१) आधुनिकता का अर्थ २) आधुनिकता का अर्थ ३) आधुनिकता का अर्थ ४) आधुनिकता का अर्थ	१) आधुनिकता का अर्थ २) आधुनिकता का अर्थ ३) आधुनिकता का अर्थ ४) आधुनिकता का अर्थ	विद्यया ऽमृतमश्नुते आधुनिकता का अर्थ आधुनिकता का अर्थ	
Feb	१) आधुनिकता का अर्थ २) आधुनिकता का अर्थ ३) आधुनिकता का अर्थ ४) आधुनिकता का अर्थ	१) आधुनिकता का अर्थ २) आधुनिकता का अर्थ ३) आधुनिकता का अर्थ ४) आधुनिकता का अर्थ	१) आधुनिकता का अर्थ २) आधुनिकता का अर्थ ३) आधुनिकता का अर्थ ४) आधुनिकता का अर्थ	विद्यया ऽमृतमश्नुते आधुनिकता का अर्थ आधुनिकता का अर्थ	
March	१) आधुनिकता का अर्थ २) आधुनिकता का अर्थ ३) आधुनिकता का अर्थ ४) आधुनिकता का अर्थ	१) आधुनिकता का अर्थ २) आधुनिकता का अर्थ ३) आधुनिकता का अर्थ ४) आधुनिकता का अर्थ	१) आधुनिकता का अर्थ २) आधुनिकता का अर्थ ३) आधुनिकता का अर्थ ४) आधुनिकता का अर्थ	विद्यया ऽमृतमश्नुते आधुनिकता का अर्थ आधुनिकता का अर्थ	

(Signature)

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