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SRI VENKATESWARA UNIVERSITY, TIRUPATI

B.Sc. SYLLABUS AND SEMESTER STRUCTURE

SEMESTER I

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DSC- Discipline Specific Course,
CSS – Communication & Soft Skills,
FC – Foundation Course
SUBJECT: ANTHROPOLOGY
I SEMESTER
Paper I: INTRODUCTION TO SOCIAL ANTHROPOLOGY

Unit – I:
Meaning and scope of Anthropology, Sub-divisions of Anthropology and their inter-relationship.
(Physical Anthropology, Social / Cultural Anthropology, Archaeological Anthropology, Linguistic Anthropology).

Unit–II:

Unit – III:
Historical-development and Relationship between Social Anthropology and other Social Sciences History, Psychology and Sociology.

Unit–IV:
Basic concepts: Society, Community, Social Group, Social Institution, Association, Social status, Social Role, Values & Customs.

Unit- V:
Culture: definition, characteristics, components, elements of culture, cultural changes & cultural growth.

Recommended Readings:

1. Beal, R and Hoijer, H (1979): An Introduction to Anthropology
2. Beattie, J (1999); Other cultures
7. Suryanarayana, M. Samajika Manavasastram – Parichayalu (Telugu)
Subject: BIO-CHEMISTRY

SEMESTER-I

Paper I : Biomolecules

Unit – I : Biophysical Concepts
Water as a biological solvent and its role in biological processes. Biological relevance of pH, measurement of pH, pKa of functional groups in biopolymers such as proteins and nucleic acids. Importance of buffers in biological systems, ion selective electrodes, and oxygen electrode. Donnan membrane equilibrium. Significance of osmotic pressure in biological systems.

Unit – II : Carbohydrates
Carbohydrates: Classification, monosaccharides, D and L designation, open chain and cyclic structures, epimers and anomers, mutarotation, reactions of carbohydrates (due to functional groups - hydroxyl, aldehyde and ketone). Amino sugars, Glycosides. Structure and biological importance of disaccharides (sucrose, lactose, maltose, isomaltose, trehalose), trisaccharides (raffinose, melezitose), structural polysaccharides (cellulose, chitin, pectin) and storage polysaccharides (starch, inulin, glycogen). Glycosaminoglycans, Bacterial cell wall polysaccharides. Outlines of glycoproteins, glycolipids and blood group substances.

Unit – III Lipids
Lipids: Classification, saturated and unsaturated fatty acids, structure and properties of fats and oils (acid, saponification and iodine values, rancidity). General properties and structures of phospholipids, sphingolipids and cholesterol. Prostaglandins- structure and biological role of PGD_2, PGE_2 and PGF_2\alpha. Lipoproteins: Types and functions

Unit-IV : Amino Acids, Peptides

Unit-V : Proteins

1st Semester Practicals : Qualitative Analysis

1. Preparation of buffers (acidic, neutral and alkaline) and determination of pH.
2. Qualitative identification of carbohydrates- glucose, fructose, ribose/xylose, maltose, sucrose, lactose, starch/glycogen.
3. Qualitative identification of amino acids – histidine, tyrosine, tryptophan, cysteine, arginine.
5. Preparation of Osazones and their identification.
7. Absorption spectra of protein-BSA, nucleic acids- Calf thymus DNA.

SUBJECT: BIO-TECHNOLOGY
SEMESTER-I

Paper I: MICROBIOLOGY AND CELL BIOLOGY

UNIT I
History, Development and Microscopy
Stains and staining procedures: Acidic, basic and neutral stains, Gram staining, Acid fast staining, Flagella staining, Endospore staining.

UNIT II
A. Bacteria:
Bacterial morphology and subcellular structures, general morphology of bacteria, shapes and sizes, generalized diagram of typical bacterial cell.
Slime layer and capsule, difference between the structure, function and the position of the two structures. Cell wall of gram +ve and Gram -ve cells, Prokaryotic classification.
General account of flagella and fimbriae.
Chromatin material, plasmids; definition and kind of plasmids (conjugative and non-conjugative) F, R, and Col plasmids.
Endospores: Detailed study of endospore structure and its formation, germination, basis of resistance.
A brief idea Bergey’s manual. Morphology of archaea, archaeal cell membrane (differences between bacterial and archaeal cell membrane), other cell structures, concept of the three distinct archaea groups.

B. Viruses: General characteristics of viruses, difference between virus and typical microbial cell, structure, different shapes and symmetries with one example of each type, classification of viruses on the basis of nucleic acids, phage and animal cell viruses, example of each and their importance. Brief idea of lytic cycle and lysogeny.
UNIT III
Microbial Nutrition: Basic nutritional requirements: Basic idea of such nutrients as water, carbon, nitrogen, sulfur and vitamins etc., natural and synthetic media, nutritional classification of bacteria. Selective and Differential media, Enriched media, Enrichment media.

UNIT IV: Microbial growth and control:
Growth: Growth rate and generation time, details of growth curve and its various phases.
Concept of synchronous cultures, continuous and batch cultures (chemostat and turbidostat).
Measurement of growth.
Physical conditions required for growth: Temperature (classification of microorganisms on the basis of temperature requirements), pH etc. Pure cultures and cultural characteristics. Maintenance of pure culture.
Microbial Control: Terminologies - Sterilization, disinfection, antiseptic, sanitization, germicide, microbistasis, preservative and antimicrobial agents.
Mechanism of cell injury: Damage to cell wall, cell membrane, denaturation of proteins, inhibition of protein synthesis, transcription, replication, other metabolic reactions and change in supercoiling of DNA.
Physical control: Temperature (moist heat, autoclave, dry heat, hot air oven and incinerators), dessication, surface tension, osmotic pressure, radiation, UV light, electricity, ultrasonic sound waves, filtration.
Chemical control: Antiseptics and disinfectants (halogens, alcohol, gaseous sterilization. Concept of biological control.

UNITV: Cell Biology
Eukaryotic Cell - Structure and function of the following: nucleus, nuclear membrane, nucleoplasm, nucleolus, golgi complex, Mitochondria, Chloroplast, endoplasmic reticulum, lysosomes, peroxisomes, glyoxisomes and vacuoles.Plant cellwall.
Cytoskeleton (Micro and Macro filaments, microtubules) and cell locomotion. Mitosis and meiosis. Brief idea of cell cycle.
Muscle and nerve cell structure, synaptic transmission and neuromuscular junctions.

Practicals: Microbiology & Cell Biology

1. Demonstration, use and care of microbiological equipment.
2. Preparation of media, sterilization and isolation of bacteria.
3. Isolation of Bacteriophage from sewage / other sources.
4. Demonstration of motility of Bacteria.
5. Simple staining of bacteria
6. Gram staining of Bacteria
7. Acid fast staining of Bacteria
8. Endospore staining.
9. Demonstration of starch hydrolysis by bacterial cultures
10. Growth of fecal coliforms on selective media.
11. Isolation of pure culture by pour plate method
12. Isolation of pure culture by streak plate method.
17. To study germicidal effect of UV light on bacterial growth.

Note: - Mandatory to perform at least ten practical.

Subject: BOTANY

SEMESTER- I

Paper-I : Microbial Diversity, Algae and Fungi

UNIT - I: Origin and Evolution of Life, Microbial diversity
1. Origin of life – theories
2. Geological time scale
3. Microbial diversity-Mycoplasma – Chlamydia – Archaeabacteria – Actinomycetes

UNIT - II: VIRUSES AND BACTERIA
1. Viruses: General account of Viruses, structure, replication and transmission of plant diseases Caused by Viruses.
2. Bacteria: Structure, nutrition, reproduction and economic importance. Outline of plant diseases of important crop plants caused by Bacteria and their control.

UNIT III: CYANOBACTERIA AND LICHENS
1. Cyanobacteria: General account of cell structure, thallus organization and their uses as Biofertilizers
2. Structure and reproduction and life history of Nostoc and Scytonema

UNIT - IV Algae
1. General account, Fritsch classification of Algae and economic importance.
2. Structure, reproduction, life history of Oedogonium, Ectocarpus and Polysiphonia

UNIT V: FUNGI
1. General characters, classification (Alexopulous) and economic importance
2. Structure, reproduction and life history of Albugo, Penicillium, Puccinia
3. General account of plant diseases caused by Fungi and their control

Suggested Readings:

**PRACTICAL SYLLABUS: SEMESTER -I**

**Paper-I: Microbial Diversity, Algae and Fungi**

1. Knowledge of Equipment used in Microbiology: Spirit lamp, Inoculation loop, Hot-air oven, Autoclave/Pressure cooker, Laminar air flow chamber, Incubator, etc.
2. Preparation of solid and liquid media for culturing of microbes (Demonstration)
3. Study of viruses and bacteria using electron micro photographs
4. Gram staining of Bacteria
5. Study of Plant disease symptoms caused by Bacteria (Citrus canker, leaf blight of rice, Angular leaf spot of Cotton) and viruses (TMV, Vein clearing of Bhendi and Leaf curl of Papaya), Fungi (Late blight of potato, Red rot of Sugarcane and Paddy blast
6. Vegetative and reproductive structures of the following:
   a. **Algae**: Oedogonium, Ectocarpus, Polysiphonia, Nostoc and Scyttonema
   b. **Fungi**: Albugo, Penicillium and Puccinia.
7. Section cutting of diseased material infected by Fungi and identification of pathogens as per theory syllabus
8. Lichens: Different types of thalli and Anatomy
9. **Field Visit**
SUBJECT: CT& HM (Catering Tourism & Hotel Management)
SEMESTER- I
PAPER-I: 101 PRINCIPLES OF TOURISM

Unit-I

Unit – II
Social and Economic significance of Tourism – Environmental and Social Impact of Tourism - Tourism as an Industry – Ancillary industries in Tourism

Unit – III
Tourism – Analyse the Scenario and Five year plans – Impact of Tourism – Contribution of Andhra Pradesh State Tourism – Along with different organization. Eg. WTO, IATA, PATA, ICAO, TAAI and UFTAA.

Unit - IV

Unit – V

PRACTICALS:
1. Visit to A.P. Tourism Department
2. Wild life / Beaches / Record work / AP Regional wise
3. Hill resorts
4. Transport: a) Air, b) Sea, c) Railway, d) Bus
5. Visit to any culture regions – Case Study

REFERENCES:
1. An Introduction to Travel and Tourism – Jag Mohan Nagi
2. Air Lines and ticketing for tourism – Jag Mohan Nagi
3. IATA ticketing manual – Ticketing course material
SUBJECT: CT& HM (Catering Tourism & Hotel Management)
SEMESTER- I
PAPER-I: 102 FOOD PRODUCTION

Unit-I
Introduction to cooking – origin of cooking – Culinary terms.
Basic Commodities – Types of commodities, Explanation of various types and their usage in cooking / Processing of cream, types of Butter and its uses classification of cheese and its uses.

Unit – II
Kitchen organization – listing of the classical kitchen Brigade and Kitchen Brigade in various category hotels. Flight kitchen, hospital and institution kitchen, attributes of kitchen staff and Job Description of Staff, Co-ordinating Departments, Layout of kitchen in various organizations, Raw material receiving Areas, storage Areas, Layout of service wash up area of kitchen.

Unit – III
Equipments and Fuels used – Different equipment used in food in food production. Mode of operatio, care and maintenance, Different types of fuel used.
Aims and objectives of food production.

Unit – IV
Quantitative and qualitative aspects, different types of basic stocks and sauces and their preservatives usage in food preparation.
Principles of food production – Classification Selection, Principles of cookery, effect of cooking usage in food preparation, cooking, Accompanied garnishes and presentation of:
(a) Cereals and pulses (b) Egg Cookery
(c) Vegetable & Fruits (d) Meat & Meat Products
(e) Milk Products

Unit – V
Methods of cooking – types of cooking methods with proper examples.
Menu & Menu planning – origin and description of menu. Types of menu and difference between menus, planning and competition of Menu, factors and considerations of menu planning - Different courses of French Classical menu with Examples, Different kinds of Breakfast - Explanation of Brunch & lunch, Dinner and supper aftertation tea of high Tea etc.

PRACTICALS:
1. Identification of equipments, grocery and provision.
2. Preparation of basic stocks and Soups
3. Preparation of continental menus
5. Garnishing presentation of carving.
REFERENCES:
3. Food preparation theory – Eva Medwed Prentice
4. Practical professional cookery – Crockewell and Kanuttmannmacmillam
5. Complete Cookery Manual – Antony O’Reilley (ELBS)

SUBJECT: CT& HM (Catering Tourism & Hotel Management)
SEMESTER- I
PAPER-I: 103 FOOD BEVERAGE SERVICES

Unit-I

Unit – II
Food and Beverage Service organization – Food and Beverage Service Organization – Hierarchy, Job specification and Job description of Staff, Attributes of Food and Beverage Service Personnel – Co-ordinating with Other Departments.

Unit – III
Types Of Food And Beverage Service Outlets – About Various Types of Service Outlets, Brief Description about the Service Outlets. Difference Between Specialized Restaurant and Multi Casting Restaurant, Room Services, Banquets, Operations, Pantry, Food Pick-Up Areas, Stores and Linen Room, Kitchen Stewarding.

Unit – IV
Food and Beverage Service Area Equipments – Introduction of Various Areas. Describing the Area, Still Rooms Silver Room, Washup, Hot Plate, Dispense Bar & Spare – Linen Store – Lightening, colour etc. Different types of Linen and Furniture. Equipment and their Classification. Different Types of cutlery, Glassware, Crockery etc.

Unit – V
Food and Beverage Service – Types of Food Service, Description of Food Science, Cafeteria Service and Counter Service, Room Service and Banquet Hall Buffet Define Mise-en-Scene, Mise-en-Place, Restaurant Reservations, Wine – making.

PRACTICALS:
1. Familiarization of restaurant equipment.
2. Maintenance of the equipment and Silver
3. Menu planning
4. Description of Dishes and their accompaniments.
REFERENCES:
3. Modern Restaurant Service – John Fuller – Stanley Thornupub Ltd.
4. Introduction to Modern Food & Beverage Service by William H Krant.

Subject: CHEMISTRY

SEMESTER-I

Paper-I: Inorganic & Organic Chemistry

INORGANIC CHEMISTRY-I

UNIT – I
1. p-block elements:
   General characteristics of elements of groups 13, 14, 15
   Group—13  Synthesis and structure of diborane and higher boranes (B\(_4\)H\(_{10}\) and B\(_3\)H\(_9\)), boron-nitrogen compounds (B\(_3\)N\(_3\)H\(_6\) and BN)
   Group – 14: Preparation and applications of silanes and silicone

UNIT-II
1. p-block elements:
   General characteristics of elements of groups 16 and 17
   Group – 16: Classifications of oxides based on (i) Chemical behaviour and (ii) Oxygen content.
   Group--17: Inter halogen compounds and pseudo halogens.

2. Organometallic Chemistry
   Definition and classification of organometallic compounds, nomenclature, preparation, properties and applications of alkyls of Li and Mg elements

ORGANIC CHEMISTRY-I

UNIT-III
1. Structural theory in Organic Chemistry
   Types of bond fission and organic reagents (Electrophilic, Nucleophilic, and free radical reagents including neutral molecules like H\(_2\)O, NH\(_3\) & AlCl\(_3\)).
   Bond polarization: Factors influencing the polarization of covalent bonds, electro negativity – inductive effect. Application of inductive effect (a) Basicity of amines (b) Acidity of carboxylic acids (c) Stability of carbonium ions. Resonance or Mesomeric effect, application to (a) acidity of phenol, and (b) acidity of carboxylic acids. Hyper conjugation and its application to stability of carbonium ions, Free radicals and alkenes, carbanions, carbenes and nitrenes.
UNIT-IV

1. Acyclic Hydrocarbons

2. Alicyclic hydrocarbons (Cycloalkanes)
Nomenclature, Preparation by Freunds methods, heating dicarboxylic metal salts. Properties – reactivity of cyclopropane and cyclobutane by comparing with alkanes, Stability of cycloalkanes – Baeyer’s strain theory, Sachse and Mohr predictions and Pitzer’s strain theory. Conformational structures of cyclobutane, cyclopentane, cyclohexane.

UNIT-V

1. Benzene and its reactivity
Concept of resonance, resonance energy. Heat of hydrogenation, heat of combustion of Benzene, mention of C-C bond lengths and orbital picture of Benzene. Concept of aromaticity – aromaticity (definition), Huckel’s rule – application to Benzenoid (Benzene, Naphthalene) and Non – Benzenoid compounds (cyclopropenyl cation, cyclopentadienyl anion and tropylum cation) Reactions – General mechanism of electrophilic substitution, mechanism of nitration. Friedel Craft’s alkylation and acylation. Orientation of aromatic substitution – Definition of ortho, para and meta directing groups. Ring activating and deactivating groups with examples (Electronic interpretation of various groups like NO₂ and Phenolic). Orientation of (i) Amino, methoxy and methyl groups (ii) Carboxy, nitro, nitrile, carbonyl and sulphonic acid groups (iii) Halogens (Explanation by taking minimum of one example from each type)

Practical-I

Qualitative inorganic analysis
Qualitative Analysis and Inorganic preparations:
Analysis of simple salt containing the following one anion and cation
Analysis of Anions: Carbonate, sulphate, chloride, bromide, iodide, acetate, nitrate, borate, phosphate,
Analysis of cations: Lead, copper, cadmium, iron, aluminum, zinc, manganese, nickel, calcium, strontium, barium, potassium and ammonium.
Inorganic preparations: Any one of the following inorganic preparations:
1) Ferrous ammonium sulphate
2) Tetrammine copper (II) sulphate
Recommended Text Books and Reference Books

Inorganic Chemistry
1. Advanced Inorganic Chemistry Vol-I by Satyaprakash, Tuli, Basu and Madan
2. Inorganic Chemistry by R R Heslop and P.L. Robinson
3. Text book of Inorganic chemistry by R.Gopalan
4. A textbook of qualitative inorganic analysis by A.I. Vogel
5. Organometallic Chemistry – An introduction by R.C.Mehrotra and A.Singh
6. Advanced Inorganic Chemistry By Gurudeep Raj
7. Selected topics in inorganic chemistry by W.D.Malik, G..D.Tuli, R.D.Madan
9. Concise coordination chemistry by Gopalan and Ramalingam
10. Satyaprakash’s modern inorganic chemistry by R.D.Madan.

Organic Chemistry
1. Organic Chemistry By R T Morrison and R.N.Boyd
3. Reaction mechanisms in Organic Chemistry by S.M.Mukherji and S.P.Singh
4. A guide book to mechanisms in Organic Chemistry by Peter Sykes
5. Organic spectroscopy by J.R.Dyer
6. Organic Spectroscopy by William Kemp
8. Organic Chemistry by L.G.Wade Jr, Maya Shankar Singh
9. Elementary organic spectroscopy by Y.R. Sharma
10. Chemistry & Industry by Gurdeep R. Chatwal
12. Synthetic Drugs by O.D.Tyagi & M.Yadav
Unit I
Definition and introduction to nutrition-good nutrition and mal nutrition Macro Nutrients -
Classification, digestion, absorption, functions, dietary sources, RDA, clinical manifestations of
deficiency and excess and storage in the body of the following in brief:
Energy, Carbohydrates, lipids and proteins

Unit II
Classification, digestion, absorption, functions, dietary sources, RDA, clinical manifestations
of deficiency and excess of the following in brief:
1) Fat soluble vitamins-A, D, E and K
2) Water soluble vitamins – thiamin, riboflavin, niacin, pyridoxine, folate, vitamin B12
   and vitamin-C
3) Minerals – calcium, iron, iodine, fluorine and zinc

Unit III
A) Energy value of foods and energy requirement – the body’s for energy BMR activities,
   utilization of food to energy requirements.
B) Basal metabolism, factors affecting basal metabolic rate, calorigenic effect of food, specific
dynamic action of food.
C) Acid base balance.

Unit IV
Importance of water and water balance – functions, sources, requirement – effect of deficiency.

Unit V
A) Interrelation between nutrients – nutrition and health – visible symptoms of good health.
B) Nutrition and Infection

PRACTICALS
1. Identification of nutrient rich sources of foods, their seasonal availability and price.
2. Study of nutrition labelling on selected foods.
3. List out low cost nutrient rich foods.
4. List out nutrient foods for different income groups.

REFERENCES
SUBJECT: COMPUTER SCIENCE
SEMESTER-I
Paper I: COMPUTER FUNDAMENTALS AND MS OFFICE

Unit – I
Introduction to Computers
Input and Output Devices

Unit – II
Computer Memory and Processors
Number Systems and Computer Codes

Unit – III
Computer Software
Operating Systems

Unit – IV
Introduction to Algorithms and Programming Languages
MS Word:
Getting Started.
Understanding Word Basics. Editing and Formatting Text. Formatting Documents
Working with Graphic Objects.

Unit – V
Microsoft Excel:
Microsoft PowerPoint:
Understanding PowerPoint Basics. Formatting and Modifying Presentations. Enhancing the Presentation.

TEXT BOOK:
1. Fundamentals Of Computers ” by REEMA THAREJA from OXFORD UNIVERSITY PRESS

REFERENCE BOOK:
1. “Computer Fundamentals and Programming in C” by REEMA THAREJA from OXFORD UNIVERSITY PRESS
2. PC SOFTWARE UNDER WINDOWS by Puneet Kumar And Sushil Bhardwaj From Kalyani Publishers
SUBJECT: B.Com. COMPUTER APPLICATIONS

SEMESTER –I

FUNDAMENTALS OF COMPUTERS

UNIT I
Introduction to Computers
Input and Output Devices

UNIT II
Computer Memory and Processors
Number Systems and Computer Codes

UNIT III
Boolean algebra And Logic Gates
Computer Software

UNIT IV
Operating Systems
Introduction to Algorithms and Programming Languages
Database Systems

UNIT V
Computer Networks
Internet
Emerging Computer Technologies

TEXT BOOKS :

1. Fundamentals Of Computers By Reema Thareja from Oxford University Press

REFERENCE BOOKS :

SUBJECT: DAIRY SCIENCE  
SEMESTER-I  
Paper I: DAIRY HUSBANDRY-I  

Unit I:  
Livestock census; Breeds of Dairy cattle, Buffaloes and Goats. Indigenous, Exotic and Crossbred Cattle breeds  

Unit II:  
Anatomy of Udder; Development of udder; Lactogenesis and Galactopoises; Let down of milk.  

Unit III:  

Unit IV:  
Economic traits of Dairy cattle. Methods of selection of dairy animals.  

Unit V:  
Systems of Dairy cattle breeding. Inbreeding, out breeding, Cross breeding, Grading up. Breeding systems suitable to enhance milk production in India (Cross breeding of cattle and Grading up of buffaloes).  

Practical:  
1. Points dairy cow.  
2. Identification of different breeds of dairy cattle and buffaloes.  
3. Male and female reproductive systems.  
5. Artificial insemination  
7. To study the comparative merits of cows and buffaloes; zebu and crossbred cows  

Reference books  
3. Principles and practices of Dairy Farm – Jagdish Prasad
UNIT I
A.C CIRCUIT FUNDAMENTALS
The sinusoidal voltage and current-Average and R.M.S values- phasor representation-‘j’
operator, polar and rectangular forms of complex numbers, A.C applied to RC, RL and RLC
circuits –phasor diagrams-concept of impedance-power factor in a.c circuits, numerical
problems.

PASSIVE NETWORKS
Concept of ideal as well as practical voltage and current sources, Regulation Kirchhoff’s current
law – Kirchhoff’s voltage law - Method of solving A.C and D.C circuits by Kirchhoff’s laws –
Loop analysis – Nodal analysis – numerical problems.

UNIT II
NETWORK THEOREMS
Maximum power transfer theorem -Super position theorem – Thevenin’s theorem – Norton’s
theorem – Thevenising a circuit–Thevenin Norton conversion –Milliman theorem- Reciprocity
theorem- problem solving applications for all the theorems.

UNIT III
RC and RL CIRCUITS
Transient response of RL and RC circuits with step input, Time constants, Frequency
response of RC and RL circuits, their action as low pass and high pass filtersPassive
differentiating and integrating circuits ,numerical problems.

UNIT IV
RESONANCE IN ELECTRIC CIRCUITS
Resonance in series and parallel R- L- C circuits ,Resonant frequency, Q-factor, bandwidth,
selectivity. Comparision of series and parallel resonance .Tank circuit-LC oscillations, numerical
problems.

UNIT V
CATHODE RAY OSCILLOSCOPE
CRT and its working ,Electron gun, electrostatic and magnetostatic deflections. Deflection
sensitivity, Fluoscent screen, CRO block diagram, Measurement of voltage, frequency and
phase, Function generator-Block diagram and its description.

TEXT BOOKS:
1. Electric circuits by David A.Bell 7TH edition Oxford higher education
3. Circuit analysis by P. Gnanasivam-Pearson education
4. Networks, lines & fields by Ryder-PHI
5. Circuits and Networks-A. Sudhakar and Shyam Mohan-TMH

**PRACTICALS - I**
*(At least Seven experiments should be done)*

1. Measurement of D.C & A.C voltage, frequency using CRO.
2. Thevenin’s theorem – Verification.
4. Maximum power transfer theorem - Verification.
5. CR Circuits – Frequency response (Low pass and High pass)
6. LR Circuits – Frequency response (Low pass and High pass)
7. LCR Series resonance circuit – frequency response, Determination of Q and Band width
8. LCR parallel resonance circuit – frequency response, Determination of Q and Band width

**LAB MANUAL**

**SUBJECT: GEOLOGY**

**SEMESTER-I**

**Paper- I : Physical Geology & Crystallography**

**Unit –I**
General aspects. Definition of geology - Basic assumptions of Geology - Its relationship with other sciences - Branches of geology - Aim and applications of geology. Earth as a planet: its shape, size, and density - movement and then effects. Origin and age of the earth.
Geological process - exogenic and endogenic. Definition of weathering - types of weathering of rocks - Physical and chemical; Definition of erosion and denudation, cycle of erosion; erosion, transportation and deposition; agents of erosion.

**Unit-II**
Groundwater: Storage of ground water - porosity, permeability, aquifer, water table, zone of saturation, artesian well, spring, geysers - development of typical land form by erosion and deposition by groundwater [Karst topography] sinkhole, cavern, Stalactities and stalagmites.


Unit-III


Wind: Development of characteristic features by wind (arid cycle), erosion and deposition - pedestal rock - mushroom topography - Incelberg - Ventifacts -sand dunes.


Continental Drift & Plate tectonics: Theory of Plate tectonics – nature and origin of ocean floor.

Unit-IV


Unit-V
Classification of crystals into systems
Morphological study of the following classes of symmetry
I. Cubic system – Galena type
II. Tetragonal system - Zircon type
III. Hexagonal system - Beryl type
IV. Trigonal system - Calcite type.
V. Orthorhombic system - Barites type
VI. Monoclinic system - Gypsum type -
VII. Triclinic system - Axinite type

Twinning: Definition of twinning, Laws of twinning and Types of twinning

Text books:
1. Holmes Principles of Physical Geology - D.L. Holmes
2. Physical Geology - A.N. Stracher

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3. A book of Physical Geology - A K Datta
4. An Introduction to Crystallography - R.C. Phillips

References:
1. Basic Physical Geology - E.S. Robinson
2. The evolving Earth: A text in Physical Geology - E.S. Sawkins. et al.
3. Physical Geology - B.F. Mallory and D.N. Gargo
4. A textbook of mineralogy - E.S. Dana and W.E. Ford

Practical-I- Physical Geology & Crystallography

Interpretation of morphometric data/drainage systems, Identification of geomorphological features in topographical maps.

Study of symmetry, and form of the Normal classes of seven crystal systems of the following:
I. Cubic system – Normal (Galena)
II. Tetragonal system – Zircon type
III. Hexagonal system – Beryl type
IV. Trigonal system – Calcite type
V. Orthorhombic system – Barites type
VI. Monoclinic system – Gypsum type
VII. Triclinic system – Axinite type
SUBJECT: HOME SCIENCE

SEMESTER-I

Paper I: 101 Basic Nutrition

Unit I
Definition and introduction to nutrition-good nutrition and mal nutrition Macro Nutrients - Classification, digestion, absorption, functions, dietary sources, RDA, clinical manifestations of deficiency and excess and storage in the body of the following in brief: ◗ Energy ◗ Carbohydrates, lipids and proteins

Unit II:
Classification, digestion, absorption, functions, dietary sources, RDA, clinical manifestations of deficiency and excess of the following in brief: ◗ Fat soluble vitamins-A, D, E and K
◗ Water soluble vitamins – thiamin, riboflavin, niacin, pyridoxine, folate, vitamin B12 and vitamin-C
◗ Minerals – calcium, iron, iodine, fluorine and zinc

Unit III:
A) Energy value of foods and energy requirement – the body’s for energy BMR activities, utilization of food to energy requirements.
B) Basal metabolism, factors affecting basal metabolic rate, calorigenic effect of food, specific dynamic action of food.
C) Acid base balance.

Unit IV:
Importance of water and water balance – functions, sources, requirement – effect of deficiency.

Unit V:
A) Interrelation between nutrients – nutrition and health – visible symptoms of good health.
B) Nutrition and Infectio

PRACTICALS
1. Identification of nutrient rich sources of foods, their seasonal availability and price.
2. Study of nutrition labelling on selected foods.
3. List out low cost nutrient rich foods.
4. List out nutrient foods for different income groups.

REFERENCES
SUBJECT: HOME SCIENCE
SEMESTER-I
Paper I: 102 Biochemistry

Unit-I
Chemistry of carbohydrates, chemical characteristics, classifications, Isomerism – (Stereo – Geometrical & optical isomerism) structure of glucose, properties and tests of mono, di and polysaccharides, ring structure & tautomeric forms of sugars, colour reactions of carbohydrates.

Unit–II
Chemistry of lipids – Classifications and properties of fatty acids, and lipids. Colour reactions of lipids.

Unit–III

Unit–IV
Enzymes – definition, properties, classification, nature mode of action, activation, inhibition and function, Factors effecting enzyme activity.

Unit–V
Nucleic acids- DNA structure, Types of RNA, Nucleoproteins – Their role in protein synthesis.

PRACTICALS
1. Qualitative analysis of carbohydrates- Monosaccharides (Glucose, Fructose), Disaccharides (Lactose, Maltose and Sucrose) and Polysaccharides (Starch).
2. Qualitative analysis of amino acids (Tyrosine, Tryptophan and Arginine).
3. Qualitative analysis of Lipids.

REFERENCES
5. BIOCHEMISTRY – Saras publications
SUBJECT: HOME SCIENCE

SEMESTER-I

Paper I: 103 Microbiology

UNIT-I
Introduction to Microbiology history and its value. Relation of Microbiology to other sciences. Microscopic world: Protozoa, Algal, Molds, Actinomycetales, Saccharomycetes, Bacteriaceae, Rickettsiae, Viruses, Classification – General characteristics of microorganisms, Morphology, Growth, Nutrition, Reproduction

UNIT II
Microbial pathogenesis Important bacterial (Cholera, Typhoid, Leprosy, Tuberculosis, Diphtheria) Rickettsial (typhus, group of spotted fever) Viral (Measles, Encephalitis, Influenza, Poliomyelitis) Protozoa: Diseases (Amoebiasis, Malarial disease of man) A) Modes of infection, diagnosis, treatment, and control of infection of the above mentioned diseases

UNIT III
A) Bacterial physiology, Motility, growth and death of Bacteria, growth requirements – Temperature Oxygen, pH  B) Microorganisms in fermentation and decay  C) Bacterial Genetics – Variations, Mutations & Recombination

UNIT IV
Microbiology of foods and dairy products (vegetables, fruits, eggs, meat, milk, fish), Methods of food preservation, Food borne infections, Food poisoning Afla toxins

UNIT V
Microbiology of Special Environment
A) Study of microbes in soil, water, air sewage and plants, and animals  
B) Sanitation of drinking water
C) Role of Microbes in carbon and nitrogen cycle

PRACTICALS
1. Precautions to be taken in the Microbiology laboratory
2. Study of Microscope and its parts
3. Sterilization procedures
   a) Autoclaving
   b) Hot air oven
4. Media preparation
   a) Nutrient agar
   b) Nutrient broth
   c) Macconkey’s agar
   d) SDA
REFERENCES
2. General Microbiology by R.P. Singh.
3. General Microbiology by Pelczar.
4. College Microbiology by Sundar Rajan.
5. Microbiology by Saras Publications.

Subject: MATHEMATICS
SEMISTER-I
Paper-I: DIFFERENTIAL EQUATIONS

UNIT-I
Differential Equations of first order and first degree:
Linear differential equations; Differential Equations reducible to linear form; Exact differential equations; Integrating factors; Change of variables; Simultaneous differential equations; Orthogonal Trajectories.

UNIT- II
Differential Equations of first order but not of the first degree:
Equations solvable for p; Equations solvable for y; Equations solvable for x; Equations that do not contain x (or y); Equations of the first degree in x and y – Clairaut’s equations.

UNIT –III
Higher Order linear Differential Equations-I
Solution of Homogeneous linear differential equations of order n with constant coefficients.
Solution of the non-homogeneous linear differential equations with constant coefficients by means of Polynomial operators.

UNIT –IV
Higher Order linear Differential Equations-II
Method of Variation of parameters; Linear differential equations with non-constant coefficients; The Cauchy- Euler equation.

UNIT –V
Partial Differential Equations-I
Prescribed Text Books:

Reference Book:
1. Differential Equations with applications and programs- S. Balachandra Rao&HR anuradha-universities Press

SUBJECT: MICROBIOLOGY
SEMESTER-I

Paper I: Introductory Microbiology, Microbial Techniques and Biology of Microorganisms

UNIT-I

UNIT-II
Classification of microorganisms – Hackel’s three -kingdom concept – Whittaker’s five -kingdom concept and three domain concept of Carl Woese and phylogenetic trees. Basis of modern microbial classification and their concepts, nomenclature and taxonomic ranks. General characters of Fungi (Yeasts, Candida) – Algae (Cyanobacteria, Chlorella), Protozoa (Entameoba, Leishmania, Plasmodium). Isolation and identification of Microorganisms- Principles and types of stains (Simple, differential and negative stains), structural stains - spore, capsule, flagella. Hanging-drop method.

UNIT-III

UNIT-IV
Isolation of pure culture techniques - Enrichment culturing, dilution-plating, streak-plate, spread-plate and micromanipulator. Preservation of microbial cultures - sub culturing, overlaying cultures with mineral oils, lyophilization, sand cultures, storage at low temperature (ultra low temperature).

UNIT-V
Differentiation of prokaryotes and eukaryotes. General characteristics of bacteria, archaeabacteria, rickettsias, mycoplasmas, cyanobacteria and actinomycetes. Outline

**PRACTICAL- Introductory Microbiology, Microbial Techniques and Biology of Microorganisms**

1. Precautions to work in Microbiology laboratory.
2. Preparation of culture media: Solid / Liquid.
3. Isolation of single colonies on solid media.
4. Enumeration of bacterial numbers by serial dilution and plating- spread and streak.
5. Light and compound microscope and its handling.
6. Simple and differential staining (Gram’s staining).
7. Spore staining, capsule staining and negative staining.
8. Motility of bacteria by Hanging drop method.
9. Contributors of Microbiology- photographs.
11. Physical methods - autoclave, hot-air oven, pressure cooker, laminar air flow, filter sterilization.
12. Microscopic observation of cyanobacteria (*Nostoc, Spirulina*), algae (*Scenedesmus* sp., diatoms) and fungi (*Saccharomyces, Rhizopus, Aspergillus, Penicillium, Fusarium*).
13. Calibrations of microscopic measurements (Ocular, stage micrometers)- bacteria, fungal spores.

**Note:** S.No. 5,6,7,8,13 practicals are compulsory for major experiments.

**Reference Books for Theory papers:**

**Text Books for Theory papers:**
Lab Manuals for Practicals:
International lab manuals:

Indian lab manuals:

Subject: PHYSICS

SEMESTER- I

Paper I: Mechanics & Properties of Matter
(For Maths Combinations)

UNIT I: Vector Analysis
Scalar and vector fields, gradient of a scalar field and its physical significance. Divergence and curl of a vector field with derivations and physical interpretation. Vector integration (line, surface and volume), State and proof of Gauss and Stokes theorem.

UNIT II: Mechanics of particles

UNIT III:
1. Mechanics of Rigid bodies
Definition of rigid body, rotational kinematic relations, equation of motion for a rotating body, angular momentum. Euler equation, precession of a top. Gyroscope, precession of the equinoxes.
2. Mechanics of continuous media:
Elastic constants of isotropic solids and their relation, Poisson's ratio and expression for Poisson's ratio in terms of y, n, k. Classification of beams, types of bending, point load, distributed load, shearing force and bending moment, sign conventions.

UNIT IV: Central forces
Central forces, definition and examples, conservative nature of central forces, conservative force as a negative gradient of potential energy, equation of motion under a central force. Derivation of Kepler’s laws. Motion of satellites.

UNIT V : Special theory of relativity
Galilean relativity, absolute frames. Michelson-Morley experiment, negative result. Postulates of special theory of relativity. Lorentz transformation, time dilation, length contraction, addition of velocities, mass-energy relation. Concept of four-vector formalism.

Reference Books:
1. BSc Physics -Telugu Akademy, Hyderabad
7. Dynamics of Particles and Rigid bodies– Anil Rao, Cambridge Univ Press, 2006

Practical paper 1: Mechanics
Minimum of 8 experiments to be done and recorded

1. Volume resonator
2. Viscosity of liquid by the flow method (Poiseuille’s method)
3. Young’s modulus material a rod by uniform bending
4. Young’s modulus material a rod by non-uniform bending
5. Surface tension of a liquid by the method of drops
6. Surface tension of a liquid by capillary rise method
7. Determination of radius of capillary tube by Hg thread method
8. Viscosity of liquid by logarithmic decrement method
10. Rigidity modulus of material of a wire-dynamic method (torsional pendulum)
11. Fly-wheel
Subject: PHYSICS

SEMESTER- I

Paper I: Mechanics & Properties of Matter
(For Non-Mathematics Combinations)

UNIT -I

1. Mathematical Background:
   Scalars and vectors – vector addition-scalar and vector products of vector and their physical significance-vector calculus-gradient of a scalar point function-divergence and curl of vector-statements of stokes and Gauss theorems -examples (no derivations).

2. Motion of system:
   Collisions- Elastic and inelastic collisions-Collisions in one and two dimension-Rocket propulsion-Center of mass-Motion of the centre of mass-Impact parameter-Scattering cross-section, Rutherford scattering (No derivation-Qualitative ideas only)

UNIT II

3. Mechanics of Rigid body:
   Rotational kinetic energy and moment of inertia -Calculating the moment of inertia in simple cases (Rod, disc, sphere and cylinder)-parallel & Perpendicular axes theorems-
   Torque-relation between torque and angular momentum.

   Angular momentum of a particle-Torque and angular momentum for a system of particles-
   conservation of angular momentum-Translation and rotational motion of system-Elementary ideas about gyroscopic motion (No derivation –discussion of results)- precission of the equinoxes

UNIT-III

4. Central forces
   Central force- Def & examples- General properties of central forces-Conservative nature of central forces, Planetary motion-Kepler’s laws (Statements & Explanation), Newton’s law of gravitation from Kepler’s law, Geostationary Satellite Motion.

UNIT-IV

5. Fluid Flow
   The flow of ideal fluids-Equation of continuity –Bernoulli’s equation-Torricelli’s theorem-
   The venture meter-Pitot’s tube-Viscosity and the flow of real fluids- Poisellious equation.

UNIT V

6. Relativistic effects
   Moving reference frames-Inertial reference frames-Galilean relativity (Elementary treatment only, application to be covered)–Special theory of relativity-Statements of the two basic postulates-Lorentz transformation equations-length contraction-time dilation-addition of velocities-Momentum and relativistic mass- Mass –Energy equation, rest mass & momentum of a particle.
Subject: STATISTICS (with Mathematics combination)

SEMESTER – I

Paper – I: Descriptive Statistics and Probability

UNIT – I
Concepts of Primary and Secondary data. Methods of collection and editing of primary data, Designing a questionnaire and a schedule. Measures of Central Tendency – Mean, Median, Mode, Geometric Mean and Harmonic Mean.

UNIT – II
Measures of dispersion: Range, Quartile Deviation, Mean Deviation and Standard Deviation. Central and Non-Central moments and their interrelationship Sheppard’s correlation for moments, Skewness and kurtosis.

UNIT – III
Basic concepts of Probability, random experiments, trial, outcome, sample space, event, mutually exclusive and exhaustive events, equally likely and favourable outcomes. Mathematical, Statistical, axiomatic definitions of probability. Conditional Probability and independence of events.

UNIT – IV
Addition and multiplication theorems of probability for 2 and for n events. Boole’s inequality and Baye’s theorems and problems based on Baye’s theorem.

UNIT – V
Definition of random variable, discrete and continuous random variables, functions of random variable. Probability mass function, Probability density function, Distribution function and its properties. Bivariate random variable – meaning, joint, marginal and conditional Distribution, independence of random variables.

Practicals – Semester – I
1. Diagrammatic representation of data (Bar and Pie)
2. Graphical representation of data (Histogram, Frequency Polygon, Frequency curves, Ogives).
3. Central and non-central moments and Sheppard’s corrections for moments.
5. MS – Excel methods for the above serial numbers 1, 2, 4.

Reference Books:

1. Introduction to Probability – Charles M. Grinstead, J. Laurie Snell.
4. Sambavyatha Avadi Sidhantam – Telugu Academy

Subject: STATISTICS (with Non-Mathematics combination)

SEMESTER – I

Paper – I: Elementary Mathematics

UNIT – I
Concept of sequences and series, fundamentals of sets and functions, types of functions, solution of simultaneous linear equations, quadratic equations.

UNIT – II

UNIT – III
Definition and types of matrices, addition, subtraction, scalar multiplication of matrices

UNIT – IV
Determinant of Matrix. Transpose of a matrix, inverse and rank of 3X3 matrices only. Solution - simultaneous linear equations by matrix methods.

UNIT - V
Differentiations, derivatives of algebraic and exponential functions. Maxima and Minima of a function. Integration basics, Integration by parts and by substitution.

Practicals - Semester - I
1. Solution to simultaneous Linear equations.
2. Progressions - AP, GP, I--IP.
3. Addition, Subtraction, Multiplication of Matrices.
4. Determinant of a Matrix.
5. Simple differentiation, Integrations.

Reference Books:
1. Statistical methods - S.P. Gupta
2. Fundamentals of Mathematical statistics - SC Gupta and V.K.Kapoor
3. Differential Calculus-Santhi Narayana
4. Outlines of Matrices - Schaum

Subject: ZOOLOGY
SEMESTER-I

Paper - I : ANIMAL DIVERSITY OF INVERTEBRATES

UNIT I
1.0 Brief History, Significance Of Diversity Of Invertebrates
1.1 Phylum Protozoa:- General Characters And Outline Classification Upto Classes With Examples; Type Study: Elphidium,
1.3 Phylum Porifera:- General Characters And Outline Classification Upto Classes With Examples; Type Study: Sycon, Canal System In Sponges.

UNIT II
2.0 Phylum Cnidaria :- General Characters And Outline Classification Upto Classes With Examples; Type Study: Aurelia ,Polymorphism In Cnidarians: Corals And Coral Reef Formation.
2.1 Phylum Platyhelminthes :- General Characters And Outline Classification Upto Classes With Examples; Type Study: Fasciola hepatica.
2.2 Phylum Nematoda :- General Characters And Outline Classification Upto Classes With Examples.

UNIT III
3.0 Phylum Annelida :- General Characters And Outline Classification Upto Classes With Examples; Type Study: Leech., Metamerism In Annelida.
3.1 Vermiculture : Scope, Significance of Vermiculture Earthworms Sp, Processing of Vermiculture,Vermicompost,Economic Importance Of Vermiculture.

UNIT- IV
4.0 Phylum Arthropoda:- General Characters And Outline Classification Upto Classes With Examples; Type Study: Macrobrachium rosenbergii (Scampi).
Onychophora:- Peripatus-Structure, Affinities
4.1 Phylum Mollusca:- General Characters And Outline Classification Upto Classes With Examples.
Pearl Formation In Pelecypoda.
Torsion In Gastropoda.

UNIT-V
5.0 Phylum Echinodermata: General Characters And Outline Classification Upto Class With Examples; Water Vascular System Of Star Fish.
5.1 Invertebrates Larval Forms: Amphiblastula, Ephyra, Trochophora, Nauplius, Zoea, Mysis, Megalopa, Glochidium, Bipaneria.
5.2 Hemichordata: General Characters And Outline Classification Upto Classes With Examples; Balanoglossus:Structure, Affinities & Tornaria Larvae

Reference books:
1. Modern Text Book Of Zoology Invertebrates ---- R.L. kotpal
2. Text Book of Invertebrates- Arumugam et.al.,
3. Economic Zoology- Saras Publication
4.Old telugu academy

Subject: BCA
SEMESTER - I

Paper I: ELEMENTARY MATHEMATICS

Unit-I: Matrix Algebra:
Matrix Algebra: Types of matrices - Matrix addition and subtraction - Matrix multiplication - Transpose of a matrix, row matrix, column matrix, Symmetric and skew symmetric matrices.

Unit-II: Linear Equations:
Ad joint of a square matrix- Inverse of square matrix by using Adj A 3 order only.
Solution of Linear Equations.
(i) Cramer's Rule
(ii) Matrix Inverse method

Unit-III: Maxima and Minima:
Maxima and Minima: Introduction- Increasing and decreasing functions - Maxima and Minima Values of a Function in one variable only.
Numerical Integration:

Unit-IV: Numerical Methods:
Introduction
Unit-V: Finite Differences and interpolation:
Finite Differences - Forward Differences - Backward differences.
Newton's forward interpolation formula - Newton's backward interpolation formula

Note: 1. Proofs of theorems and derivations of Expressions are omitted.

Text Books:
1. Mathematical Methods by Dr.T.K.V. Ivengar, Dr.B.Krishna Gandhi, Dr. S.Ranganatham, and
2. Quantitative Techniques by C.Satyadevi by S.chand Company

Reference books:
1. Numerical Methods by P.Kandaswamy, K.Thilagavathy, K.Gunavathy by S.Chand

Subject: BCA
SEMMESTER - I

Paper I: COMPUTER FUNDAMENTALS

UNIT – I
   Chapter 1. introduction to Computers
   Chapter 2. Input and Output Devices

UNIT – II
   Chapter 3. Computer Memory and Processors
   Chapter 4. Number systems and computer codes

UNIT – III
   Chapter 5. Boolean algebra and logic gates

UNIT – IV
   Chapter 6. Computer software

UNIT – V
   Chapter 8. Introduction to algorithms and programming languages
   Chapter 11. The internet

TEXT BOOK:
1. “Fundamentals of Computers” by REEMA THAREJA from OXFORD UNIVERSITY PRESS
BCA I year I semester
C - PROGRAMMING

UNIT – I
Chapter 8. Introduction to C

UNIT – II
Chapter 9. Decision Control and Looping Statements
Chapter 10. Functions

UNIT – III
Chapter 11. Arrays
Chapter 12. Strings

UNIT – IV
Chapter 13. Pointers
Chapter 14. Structure, Union, and Enumerated Data Types

UNIT – V
Chapter 15. Files

REFERENCE BOOK:

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SRI VENKATESWARA UNIVERSITY, TIRUPATI

ARTS SYLLABUS AND SEMESTER STRUCTURE

SEMESTER I

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DSC - Discipline Specific Course,
CSS – Communication & Soft Skills,
FC – Foundation Course

SUBJECT: ACCOUNTS
SEMESTER - I
Paper I : ACCOUNTANCY

UNIT I

UNIT II
UNIT III

Bank Reconciliation Statement


UNIT IV

Bills of Exchange


UNIT – V

Final accounts of a sole trader – trial balance – capital and revenue expenditure and receipts – accounting concepts and conventions relating to final accounts – trading account, manufacturing account, profit and loss account and balance sheet – adjusting and closing entries.

Suggested Readings

2. Grewal, T.S Introduction to Accountancy
3. Gupta, R.L & Gupta V.K Principles & Practice of Accounting
4. Patil & Korlahalli Principles & Practice of Accounting
5. Jain, S.P & Narang, K.L Advanced Accountancy
S.V. UNIVERSITY, TIRUPATI
T.T. DEVASTHANAMS, S.V.COLLEGE OF MUSIC & DANCE, TIRUPATI
THREE YEARS B. DANCE DEGREE THEORY SYLLABUS - SEMESTER SYSTEM

PART-II  సమాససముదాయం
Internal Marks : 25
External Marks : 75
Total Marks : 100

SEMESTER-I
Part-II - Theory - I (a)

Unit-I: విశేషాల విభాగాల విభాగాలను విచ్చేది శిల్పం.

Unit-II: విశేషాల విభాగాలు - ముఖ్యంగా, విశేషాల, ఉత్తరానికి భాగం వియేంతమైన పాఠానికి, ముఖ్యంగా, విశేషాలు.

Unit-III: విశేషాల విభాగాలు విశేషాల విభాగాలు.

Unit-IV: విశేషాల విభాగాలు విశేషాల పాఠానికి.

Unit-V: విశేషాల విభాగాలు విశేషాల విభాగాలు పాఠానికి, పాఠానికి విశేషాల పాఠానికి.

SEMESTER-II
Part-II - Theory - II (a)

Unit-I: సమాసాల విభాగాల విభాగాలను విచ్చేది శిల్పం.

Unit-II: సమాసాల విభాగాల విభాగాల విభాగాల విభాగాల, విభాగాల విభాగాల విభాగాల విభాగాల, లేదా సమాసాల విభాగాల విభాగాల, లేదా సమాసాల విభాగాల విభాగాల.

Unit-III: సమాసాల విభాగాల విభాగాల.

Unit-IV: సమాసాల విభాగాల విభాగాల విభాగాల, విభాగాల, విభాగాల, విభాగాల.

Unit-V: సమాసాల విభాగాల విభాగాల, విభాగాల, విభాగాల.
SUBJECT: ECONOMICS  
SEMESTER- I  
Paper I : MICRO - ECONOMICS – 1

Unit -I: Introduction  
Nature, Definition and Scope of economics – Micro and Macro, Static and Dynamic, Normative and Positive – Inductive and Deductive approaches – Partial General Equilibrium – Choice as an Economic Problem

Unit -II: Consumer Behaviour  

Unit -III: Theory of Production  

Unit -IV: Costs and Revenue Analysis  
Different Concepts of Revenue and costs - Equilibrium of the Firm – Break-Even analysis

Unit -V: Supply  

[Additional Input Underlined]  

Suggested Books:  
7. Telugu Academy Publications  
8. AUSSDE – Study material  
SRI VENKATESWARA UNIVERSITY : TIRUPATI
EPIGRAPHY
1 Year
Paper - I  FUNDAMENTALS OF INDIAN EPIGRAPHY

Unit – I
Definition and Meaning of Epigraphy  Epigraphy As source for the study of
Political and Cultural History of India

Unit – II
General contents and format of Inscriptions – Types of Inscriptions – Based on
contents

Unit – III
Languages of Inscriptions – Prakrit – Sanskrit  Regional languages

Unit – IV
Methods of Dating Inscriptions  Different Phases used in Inscriptions

Unit – V
Writing materials  Important difference between the Stone Inscriptions and
Copper Plate Inscriptions

Suggested Readings
1. Buhler G  Indian Paleography
2. Pandit R.B  Indian Paleography
3. Sirac D.C  Indian Epigraphy
4. Sivaram Murthy C  Indian Epigraphy and South Indian Scripts
5. Mahalingam T.V  Early South Indian paleography
6. Ramach K.V  Indian Epigraphy
7. Krishna Reddy N  Susama purushottamam (Telugu)

[Signature]
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Board of Studies
Dept. of A.H.C. & Archaeology
S.V. University
TIRUPATI-2

44
SUBJECT: GEOGRAPHY

SEMESTER- I

PAPER I: Geography of India

Unit-I
India: Location, relief structure and drainage systems.
Climate, soils, natural vegetation.

Unit-II
Population: distribution, density, growth and composition.
Migration, human settlement types and urbanization.

Unit-III
Land resources, irrigation, regional variations in cropping pattern,
Green revolution and problems of Indian agriculture.
Energy and mineral resources: coal, petroleum, hydroelectricity and nuclear energy, iron
ore, manganese and mica.

Unit-IV
Industries- iron and steel, cotton textile, sugar and petrochemical industries; and
industrial regions of India.

Unit-V
Modes of transport and communication, international trade changing pattern of export and
import.

Suggested Readings
1. Deshpande, C D: India – A Regional Interpretation, Northern Book Depot, New Delhi, 1992.
**PRACTICALS (SEMESTER- I)**

**Maps and Scales**

1. Introduction to Cartography.
2. Maps and their types.

<table>
<thead>
<tr>
<th>Exercises</th>
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<tbody>
<tr>
<td>(i) Methods of Expressing a scale</td>
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<tr>
<td>(ii) Conversion of Statement of Scale into R.F. and vice-versa.</td>
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<tr>
<td>(iii) Plain Scale (Km and mile)</td>
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<td>(iv) Comparative Scale</td>
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<td>(v) Diagonal Scale</td>
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<td>(vi) Measurements of distances and areas of Maps</td>
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**Suggested Readings:**

SUBJECT: HISTORY  
SEMESTER – I  
Paper I: INDIAN HISTORY AND CULTURE

Unit – I

Unit – II

Unit -III

Unit -IV

Unit- V
Syllabus

Indoian Culture

UNIT - I
Introduction to Indian Ethics - Relationship between Religion and Ethics - Philosophy and Ethics - Social Sciences and Ethics.

UNIT - II
Introduction to Dharmasutra Literature - Manu Dharmasutra - Ancient Dharmasutra - Introduction to Niti Sutra Literature - Sukraniti - Vidwaniti.

UNIT - III
Varna and Ashrama Dharma - Purusharthas - Dharmaratna - Karma - Moksha - Dhama in the Bhagavadgita.

UNIT - IV
Buddhist Ethics - Jaina Ethics - The doctrine of Karma - Free will - Varna and Caste system.

UNIT - V
Kama and Bhakti Yoga in Bhagavadgita - Dalakunda of Valmiki Ramayana.

Books for Reference:
1. Swami Ayyangar - Hindu Morals and Ideals
2. Radha Kanman - Indian Philosophy 2 Vols.
3. Harigama - The Path of Perfection.
5. Drobn H P - Hindu Social Organization.
1st B.A, PROGRAMME - PHILOSOPHY
SEMESTER – I
PAPER-I INDIAN PHILOSOPHY
1ST CORE – SYLLABUS- 2015-16

Unit-I (A) Definition of Philosophy – Branches of Philosophy, Importance of Philosophy in Indian Society

(B) The Nature and Characteristics of Indian Philosophy, Categorization of Astik and Nastik.

Unit II (A) Philosophical Speculations of Vedas and Upanishads.
Polytheism, Henotheism, Monotheism and Monism -
(B) The concept of Rita, Liberation, Brahman Atman, and Rebirth.

Unit III The Central Doctrines of Heterodox Systems.
(A) Carvaka School – Epistemology and Metaphysics.
Jainism – Nature and Destiny of Jiva (Soul) Syadvada.

Unit IV (A) Buddhism : Four Noble Truths, Nairatma – Vada, Pratitya Samutpadtha.

Unit V (B) Arya Astanga Marga Liberation Branches of Buddhism.

Books for Study:

1. Hiriyanna M. Outlines of Indian Philosophy.
2. Radhkrishnan. S. Indian Philosophy, Vol I&II.
3. Indian Philosophy, Telugu Academy, Hyderabad.
SUBJECT: POLITICAL SCIENCE
SEMESTER - I
Paper: POLITICAL SCIENCE SEMESTER – I

UNIT – I
Introduction: Nature, scope and significance of political science

UNIT – II
State – Nation and Natonality Theories Of Origin Of The State: The theory of Divine right. The social contract theory of Hobbes, Locke and Rousseau. The Historical or Evolutionary theory

UNIT – III

UNIT – IV

UNIT – V

SUBJECT: POPULATION STUDIES
SEMESTER- I
Paper I: Population Concepts and Measures

UNIT-I: Scope and Importance
Meaning, Scope and importance of Population Studies

UNIT- II: Relationship with other Subjects
Relationship between Population Studies and other Social Sciences such as Economics, Statistics, Sociology, Psychology

UNIT- III: Sources of Population Data
A. Census, Vital Statistics. Sample Registration scheme
B. National Sample Surveys and Demographic Surveys.

UNIT – IV: Important Concepts
A. Fertility: Menarche, Sub-fecundity, Fecundity, Sterility, Abortion, Still birth, Fertility, Live birth
UNIT – V: Population Structure and Characteristics
A. Age and Sex structure: Age and sex distribution of population, Factors influencing age and sex structure: Fertility, Mortality and Migration
B. Marital Status: Distribution of Population by marital status, age at marriage
C. Religious, educational and occupational composition of Population

References

POPULATION STUDIES Practicum-I

A. Fertility:
   1. Crude Birth Rate (CBR)
   2. General Fertility Rate (GFR)
   3. Age-specific Fertility Rates (ASFRS),
   4. Total Fertility Rate (TFR),
   5. Gross Reproduction Rate (GRR)

B. Mortality:
   1. Crude Death Rate (CDR)
   2. Age specific Death Rates (ASDRs)
   3. Cause-specific Death Rate (CSDRs)
   4. Infant Mortality Rate (IMR).
Subject: PSYCHOLOGY
SEMESTER - I
Paper-I: General Psychology-I

UNIT I: Introduction
A) Historical foundations of Psychology: Definition, Nature and Scope of Psychology; Schools and fields of psychology.
B) Methods of Psychology- Introspection, Observation, Case Study, Interview, Survey and Experimental Method

UNIT II: Biological Basis of Behavior
A) Neuroanatomy - Structure of the neuron; The Autonomic Nervous System-Structure & function; The Central Nervous System: Spinal cord - structure and function; The Brain - hindbrain, midbrain & forebrain.
B) Hormones and Behavior-Main endocrine glands, their hormone products and principal effects of the hormones -Mechanisms of Heredity and Environment

UNIT III: Sensory Process:
A) Sensory organ; General characteristics of senses, theories of vision and Hearing.
B) Subliminal perception and signal detection theory.

UNIT IV: Attention and Perception
A) Types and determinants of Attention, Distraction, Division, Fluctuation and Span of attention
B) Perception- Perceptual constancies, illusions, Organizational factors of perception, Perceptual Constancies

UNIT V: Motivation and Emotion
B) Emotions – Definition and Nature of Emotions, Types of emotions, Theories of emotions- James- Lange, Cannon-Bard

REFERENCE BOOKS:

PSYCHOLOGYPracticum-I Syllabus
Conduct any Eight experiments from the following
1. Visual & Auditory
2. Distraction on attention
3. Span of Attention
4. Division of Attention
5. Fluctuation of attention
6. Illusions - Muller Lyer Illusion
7. Horizontal vertical Illusion
8. Organization in perception
9. Set in Perception
10. Perceptual constancies – size, shape

REFERENCE

SUBJECT: PUBLIC ADMINISTRATION
SEMESTER - I

PAPER – I : PRINCIPLES OF PUBLIC ADMINISTRATION

UNIT I: Introduction
1. Meaning, Nature, Scope and importance of Public Administration
2. State and Evolution of Public Administration

UNIT - II
3. Relationships with other Social Sciences: With special reference to Political Science, Economics, Sociology, Psychology
4. Politics & Administration Dichotomy – Woodrow Wilson and F.J. Goodknow

UNIT- III: Theories and Approaches
5. Classical Approach : Henry Fayol, Gulick and Urwick
6. Scientific Management Approach: Taylor

UNIT- IV
8. Human Relations Approach – Elton Mayo

UNIT – V
11. Ecological Approach: Riggs
SUBJECT: RURAL DEVELOPMENT
SEMESTER- I
Paper- I: Elements of Rural Development

Unit-I
Definition of Rural Areas – Meaning of Development – Concept of Rural Development – Causes of Rural Backwardness – Nature and Scope of Rural Development in India

Unit-II

Unit-III

Unit-IV

Unit-V
Rural Housing: Status, Problems and Programmes – Drinking Water Supply: Sources, Problems and Programmes – Rural Sanitation: Problems and Programmes

Books and References
1. N.I.R.D. : Facets of Rural Development in India
2. S.C. Jain : Rural Development
5. Rajasekhar D (Ed) : Prof G Parthasarathi’s Writings on Indian Rural Economy in Transition
7. G. Sreedhar and : Rural Development in India: Strategies and Processes,
Subject: SOCIAL WORK

SEMESTER- I

Paper – I : SOCIAL WORK PROFESSION, PHILOSOPHY AND BASIC SOCIAL SCIENCE CONCEPTS-I

UNIT I
Social Work: Definition, nature and scope, origin of social work profession in US and India.

UNIT II
Philosophy and Religious roots of humanity; charity and philanthropy in Hindu, Christian and Islam.

UNIT III
Goals of social work: Developmental and radical, generic principals of social work, social work values and ethics.

UNIT IV
Concepts of social work: Social welfare, social service, social development and social change. Fundamental rights and directive principles of state policy in Indian constitution.

UNIT V
Social reform movements and social work profession with special reference to Brahma samaj, Aryasamaj and movements for widow remarriage in A.P.

SUBJECT: SOCIOLOGY

SEMESTER- I

Paper I: Basic Concepts in Sociology

UNIT – I

UNIT – II
Basic Concepts: Society, Community, Association, Social Structure, Status & Role, Norms and Values, Fashion

UNIT – III

UNIT – IV
**Social Institutions:** Marriage, Family, Kinship and Religion; Their Functions and Features, Emerging trends.

**UNIT – V**

**Readings:**
SRI VENKATESWARA UNIVERSITY: TIRUPATI

TOURISM
1 Year

Paper 1 PRINCIPLES OF TOURISM

Unit – I
Tourism – definition – Nature and Scope – History of Tourism and its development – Motivation for Travel – Types of Tourism Domestic and International Tourism

Unit – II
Social and economic significance of Tourism – Tourism as an industry – Ancillary industries in Tourism

Unit – III

Unit – IV
Cultural Tourism in India – fairs and festivals – Kumbhamela – Mysore Dasara – Brahmotsavams of Tirumala – Folk and Tribal Cultural

Unit – V

SUGGESTED READINGS
1. Bhatia A.K
2. Allechin F.R
3. Basham A.L
4. Gupta S.P
5. Kaul S.N
6. Kramrisch Stella
7. Chris Cooper and Fletcher
8. S.Wahab
9. James W. Morrison
10. Edward D Mills
11. Douglas Pierce

Tourism development, Principles and Practices
Cultural Tourism in India; Its Scope and development
The Wonder that was India
Tourism Monuments of India
Tourism in India
The Art of India
Tourism Principles and Practices
Tourism Marketing
Travel Agent and Tourism
Design for Holidays and Tourism
Tourism Today; A Geographical Analysis.

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Board of Studies
Dept. of A.I.H.C. & Archaeology
S. V. University
TIRUPATI-2
<table>
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**SRI VENKATESWARA UNIVERSITY, TIRUPATI**  
**B.Com., SYLLABUS AND SEMESTER STRUCTURE**  
**SEMESTER I**

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DSC - Discipline Specific Course,
CSS – Communication & Soft Skills,
FC – Foundation Course
Subject: ACCOUNTANCY

SEMESTER – I

Paper I: ACCOUNTANCY-I

UNIT I

UNIT II

UNIT III
Bank Reconciliation Statement

UNIT IV
Bills of Exchange

UNIT V
Final accounts of a sole trader – trial balance – capital and revenue expenditure and receipts – accounting concepts and conventions relating to final accounts – trading account, manufacturing account, profit and loss account and balance sheet – adjusting and closing entries.

Suggested Readings
2. Grewal, T.S  Introduction to Accountancy
3. Gupta, R.L & Gupta V.K  Principles & Practice of Accounting
4. Patil & Korkahalli  Principles & Practice of Accounting
5. Jain, S.P & Narang, K.L  Advanced Accountancy
SUBJECT: B.Com (Computer Applications)
SEMESTER - I

Paper I: COMPUTER FUNDAMENTALS AND MS OFFICE

Unit – I
Introduction to Computers
Input and Output Devices

Unit – II
Computer Memory and Processors
Number Systems and Computer Codes

Unit – III
Computer Software
Operating Systems

Unit – IV
Introduction to Algorithms and Programming Languages
MS Word:
Getting Started.
Understanding Word Basics. Editing and Formatting Text. Formatting Documents
Working with Graphic Objects.

Unit – V
Microsoft Excel:
Microsoft PowerPoint:
Understanding PowerPoint Basics. Formatting and Modifying Presentations. Enhancing the Presentation.

TEXT BOOK:
3. Fundamentals Of Computers ” by REEMA THAREJA from OXFORD UNIVERSITY PRESS

REFERENCE BOOK:
3. “Computer Fundamentals and Programming in C” by REEMA THAREJA from OXFORD UNIVERSITY PRESS
4. PC SOFTWARE UNDER WINDOWS by Puneet Kumar And Sushil Bhardwaj From
5. Kalyani Publishers
SUBJECT: B.Com (General/CA/ASM/TAX)

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SUBJECT: B.Com (General/CA/ASM/TAX)

SEMESTER- I

Paper I : Fundamentals of Accounting

Unit-I – Introduction to Accounting

Unit –II – Subsidiary Books

Unit-III- Bank Reconciliation Statement
Need for bank reconciliation - Reasons for difference between Cash Book and Pass Book Balances- Preparation of Bank Reconciliation Statement- Problems on both favourable and unfavourable balances.

Unit-IV -Bills of Exchange
Meaning of Bill –Features of bill – Parties in the Bill – Discounting of Bill – Renewal of Bill – Entries in the books of Drawer and Drawee – Problems

Unit -V -Trial Balance& Rectification of Errors

Reference Books
2. Principles and Practice of Accounting - R L Gupta & V. K Gupta, Sulthan Chand & Sons
SUBJECT: B.Com (General/CA/ASM/TAX)

SEMESTER- I

Paper I : Business Organization

Unit-I – Introduction

Unit II- Business Functions & Entrepreneurship
Functions of Business- Factors influencing the choice of suitable form of organization – Meaning of Entrepreneurship – Types – Functions of Entrepreneurship.

Unit –III – Forms of Organization

Unit-IV- Company
Company – Meaning – Characteristics – Advantages – kinds of companies - Differences between Private Ltd and Public Ltd Companies

Unit-V- Company Incorporation

Reference Books
SUBJECT: B.Com (General/CA/ASM/TAX)

SEMESTER- I

Paper I : Business Economics

Unit-I- Introduction

Unit-II- Demand Analysis
Meaning and definition of demand -Determinants to Demand -- Demand function –Law of demand- Demand Curve -Exceptions.

Unit –III- Elasticity of Demand

Unit – IV- Market structure
Meaning and definition of Market – Classification of Markets - price determination under perfect competition and Monopoly only – Distinguish between perfect competition and Monopoly.

Unit-V- Cost Analysis

Reference Books
5. Business Economics, Maruthi Publications
SUBJECT: B.Com(Hons.)

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SUBJECT: B.Com(Hons.)

SEMESTER- I

Paper I : 101 BUSINESS ORGANIZATION

Unit – I – Fundamental Concepts

Unit- II – Forms of Business Organization : Sole Trader, HUF,

Unit – III : Partnership
Partnership – Meaning – Characteristics -Types of partnership - kinds of partners - Rights & Obligation of partners - Registration of partnership and dissolution of firm.

Unit-IV : Joint Stock Company, Promotion

Unit – V : Co-operative Societies

Reference Books.


SUBJECT: B.Com(Hons.)

SEMESTER- I

Paper I : 102 FINANCIAL ACCOUNTING-I

Unit – I – Introduction to Accounting

Unit- II – Trial Balance, Final Accounts of Sole Trader
Preparation of Trial Balance – preparation of Manufacturing Account, Trading, Profit & Loss Account – Balance Sheet – Adjusting and closing entries (with all adjustments).

Unit – III – Bank Reconciliation Statement

Unit-IV : Consignment and Joint Venture
Consignment – Accounting treatment in the books of Consignor and Consignee, Valuation of closing stock – Abnormal loss and normal loss. Invoice Price.
Joint Venture – Accounting treatment, a) Books maintained by co-ventures; b) Books maintained in the name of the venture (Joint bank method) – Goods on approval or on sale or return –
Accounting treatment, a) Goods sent casually on sale or return; b) Goods sent frequently on sale or return.

Unit-V : Errors and Rectification and Depreciation - Provisions and Reserves

Suggested readings:
- Jain & Narang - Advanced accountancy
- Shukla, Grewal & Gupta - Advanced accountancy
- TS Grewal - Introduction to Accountancy
- Mukherjee - Advanced accountancy I
- P.C. Tulsian - Accountancy – I
- Haneef & Mukherji - Financial Accounting
- P.C. Tulsian - Corporate Accounting

SUBJECT: B.Com(Hons.)
SEMESTER- I
Paper I : 103 MANAGERIAL ECONOMICS

Unit – I – Introduction to Managerial Economics and Demand and Analysis

Unit- II – Production and Cost Functions
Meaning of Production Function, Production function with one variable input, Law of Variable Proportions, Single Output Isoquants, Optimal combination of Factor inputs, returns to scale, Cobb Douglas Production Function.

Unit-III : Market Structure
Kinds of competitive situations – Perfect competition, Monopoly, monopolistic Competition and Oligopoly – features. Equilibrium output determination of a firm under perfect competition in the

**Unit-IV : Introduction to Macro Economics and ECONOMIC PLANNING**


Meaning – Types of plans – Main objects of planning in India- Planning Commission and National Development Council – Five Year Plans – Achievements of Five year plans; aggregate Demand and Supply Functions, Keynesian approach.

**Unit-V: Output, Inflation and Unemployment**


**Suggested readings:**

7. A.R. Aryasri & V.V. Ramana Murthy: Business Economics for B. Com I year; TMH.
8. Salwator: Managerial Economics
9. Peterson: Managerial Economics

**SUBJECT: B.Com(Hons.)

SEMESTER- I

Paper I : 104 QUANTITATIVE TECHNIQUES – I

Unit – I – Algebra and Commercial Arithmetic Algebra

**Quadratic Equations:** Solution of a quadratic equation – Sum of the roots – Product of the roots – Formation of Quadratic Equation.

**Commercial Arithmetic:** Percentages, Ratio and Proportion, Profit and Loss, Simple Interest – Compound Interest – Time and Work – Time and distance – Discount – Partnerships.

**Unit-II – Calculus**
Differentiation : (Without proof) – Derivative of standard functions – rules of differentiation, sum, difference, product, quotient and function, differentiation on one function with respect to another function – criteria for maxima and minima and their applications in economics.

**Unit-III : Classification of Data**
Definition, Functions and Limitations of Statistics – Collection and classification of data : Methods and limitations.

**Presentation of Data:** Tabulation – parts of Table – Types of tables (Simple and Complex) – Graphs and Diagrams – Simple bar diagrams, Multiple and Sub-divided bar diagrams – pie diagrams – Histogram – Frequency polygon, frequency curve, Ogive curves

**Unit-IV : Central Tendency**
Measures of Central Tendency; Requisites of a good measure of central tendency – Mean, Median, Mode, Geometric mean and Harmonic Mean – Merits and demerits of averages – location of Median and Mode graphically.

**Unit-V: Dispersion**
Measures of Dispersion: Requisites of a good measures of Dispersion – Range, Quartile deviation, mean deviation, Variance and Standard Deviation – Coefficient of Variation – Merits and Demerits of measures of dispersion – Lorenz Curve.

**Suggested readings (Mathematics)**


**Suggested readings (Statistics)**

3. Gupta S.P.: Statistical Methods, S. Chand & Co;
SUBJECT: B.Com (ADVERTISING, SALES PROMOTION AND MANAGEMENT)

SEMESTER- I

Paper I: Advertising - I

Unit – I

Unit – II
Kinds of Advertising – Commercial and Non-Commercial – Primary Demand and Selective Demand – Comparative and Cooperative Advertising – Classified and Display Advertising – Objectives of Advertising.

Unit – III
Advertising Budget – Procedure – Factors influencing the size of the advertising budget – Methods used in deciding advertising appropriation.

Unit – IV
Advertising copy – Attributes of an effective advertising copy – Types of advertising copy – Structural elements of Advertising copy (Head Line, Sub-head line, body of the copy, Illustration, slogan, etc.)

Unit – V
Colour in advertising – Functions and limitations of colour – Colour qualities and features – Position of colour processing in India.

Suggested Readings
SUBJECT: BBA
SEMIESTER- I
Paper I : MANAGEMENT PROCESS

UNIT-I :
Introduction : Meaning and importance of Management; Role and responsibilities of top, middle and lower mangers. Functions of management. Challenges of Management in the context of new era.

UNIT-II:

UNIT-III

UNIT-IV
Leading: Meaning – importance of leading .Leadership Styles. Developing leadership skills.
Motivating: Meaning- importance of Motivating. Theories of motivation.

UNIT – V

RECOMMENDED BOOKS:
SUBJECT: BBA
SEMESTER- I

Paper I : MANAGERIAL ECONOMICS

UNIT –I: Introduction
Economic and not-economic activities; Business – Meaning and its importance in the economy; Economics: Definitions – Distinction between micro and macro economics; Concept of Utility; Cardinal and ordinal utility; Law of Diminishing Managerial utility; Law of substitution.

UNIT – II: Demand, Supply and Market Equilibrium
Demand: Meaning, Importance, Types of Demand; Law of Demand; Elasticity of Demand: Different types of elasticity of demand – Price elasticity, income elasticity, cross elasticity and promotional elasticity – Determinants of elasticity of demand; Supply: Meaning and importance, law of supply; Market equilibrium; Consumer’s surplus.

UNIT – III : Production and Costs
Concept of Production; Production function; Distinction between short run and long run; Law of variable proportions; Law of Returns to Scale; Concept of cost of production; Cost function: Costs in short run and costs in long run.

UNIT – IV : Market Structures and Pricing
Market structures: Characteristics – Perfect Competition – Monopoly – Monopolistic Competition – Oligopoly; Pricing in various market structures during short run and long run; Different types of pricing and pricing strategies.

UNIT – V : National Income, Trade Cycles and International Trade
National Income: Definition – Measurement – Difficulties and problems in measurement of national income – different concepts of national income; Trade Cycles: Definitions – Causes – Control of Trade Cycles; Monetary policy and Fiscal Policy; International Trade: Meaning, Theories of international trade; Concept of Balance of Payments.

RECOMMENDED BOOKS:
2. Gupta G.S., Managerial Economics, Tata McGraw Hill.
SUBJECT: BBA
SEMESTER- I

Paper I : IT FOR MANAGERS

Unit I:
IT in the Modern Organization: Basic concepts of Information System – Organizational structure and IT support. IT support at different organizational levels managing information technology in organizations.

Unit II:
Computer Hardware: Computer Hardware: Central Processing Unit (CPU). Control Unit. Arithmetic Logic Unit (ALU).
Memory: Memory Organization – Random Access Memory (RAM), Dynamic RAM (DRAM), Static Ram (SRAM). Read only Memory (ROM), Registers.
Factors affecting Processor Speed – Instruction Set, Mechanic Cycle
Input Devices: Key Board, Mouse, Trackball, Game Controllers, Scanners, Voice Recognition, Web Cams, Digital Cameras, OCR, OMR, MICR.

Unit III:
Introduction to MS-Office:
Importance-features – system requirements – advantages
MS-Word: basic editing, formatting, paragraph formatting, borders & sharing, tables, lists, page formatting, inserting pictures, cliparts, shapes, mailmerge, proofing tools, templates & macros.
MS-Excel: worksheet, workbook, templates, entering data, formatting, headers, footers, data analysis, charts, names, filters, sort, validation lists, function, macros.

Unit IV:
MS-Power Point: Creating basic presentation, master view, slide design, building blocks of presentation, themes and styles, charts, graphs and tables, media clips and animation, transition, slide setup, rehearsals, narrations, macros and customization
Networks: Local Rea Networks, LAN Topologies, Wide Area Networks (WAN) – Value Added Networks (VAN)-Virtual Private Networks (VPN)
The internet, intranets and extranets: the evolution of the internet, services provided by the internet, World Wide Web: intranets and extranets.
Unit V:
New Technologies in Information Technology: introduction to hyper media, artificial intelligence and business intelligence, Knowledge Discovery in Database: (KDD). Data Warehouses and Data Marts. Data Mining and On-line Analytical Processing (OLAP)-Enterprise Resource Planning (ERP) – Supply Chain Management (SCM) – Customer Relationship Management (CRM) – Geographic Information System (GIS).

RECOMMENDED BOOKS:
5. Microsoft office Suite of Applications – Orin Thomas
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<th>S.No.</th>
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<th>Page No.</th>
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<td>English+Soft Skills</td>
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**LANGUAGES**
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<th>Ist Semester</th>
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<tbody>
<tr>
<td>1. न्याय संदेश (Prose)</td>
<td>साहित्य की महत्ता</td>
<td>संस्कृति और साहित्य का परस्पर संबंध भाषा एक है हेव.आई.वी. (AIDS)</td>
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<tr>
<td>2. कथा लोक (Short Stories)</td>
<td>गुरुज़ान गूढ़ जाई उसके कहा था</td>
<td>जोशिया श्रृवः हड़ताल परमात्मा का कुत्ता</td>
</tr>
<tr>
<td>3. व्याकरण (Grammar)</td>
<td>लिंग वचन काल वात्य वात्यों की शुद्धि</td>
<td>कार्यालय हिंदी (Changing Administrative Terminology Hindi to English and English to Hindi)</td>
</tr>
<tr>
<td>4. व्याकरण (Grammar)</td>
<td>शब्द प्रयोग कार्यालय अन्तिम हिंदी (पारिभाषिक शब्दावली - अंग्रेजी से हिंदी) विलोम शब्द</td>
<td>अपने वाक्यों में शब्द प्रयोग कार्यालय अन्तिम हिंदी (हिंदी से अंग्रेजी) संधि विलोम</td>
</tr>
<tr>
<td>5. पत्र लेखन (Letter Writing)</td>
<td>व्याकरण और सरकारी पत्र</td>
<td>आवेदन पत्र</td>
</tr>
</tbody>
</table>
Subject : ENGLISH
SEMESTER I :
Paper I: ENGLISH Language Part – I

Semester-I

Unit- I

Prose: Total Marks: 15

1. Secret of work - Swami Vivekananda
2. The Power of Prayer - Abdul Kalam
3. Man in Black - Oliver Goldsmith

Unit- II

Poetry: Total Marks: 15

1. Daffodils – William Wordsworth
2. Stopping by the Woods on a Snowy evening - Robert Frost

Unit- III

Short Story: Total Marks: 15

1. What is my Name? - P. Satyavathi
3. The Lottery ticket – Anton Chekov

Unit- IV

One Act Play: Total Marks: 10

1. The Merchant of Venice – William Shakespeare (Court Scene) (Act-IV/Scene-1)
Unit – V

Language Activity: (Exercises from the Text)

1. Reported Speech Marks: 2
2. Degrees of Comparison Marks: 3
3. Phonemic Sounds and Symbols Marks: 3
4. Phonetic Transcription to Spelling Marks: 3
5. Spelling to Phonetic Transcription Marks: 3
6. Syllable Division Marks: 3
7. Word Stress Marks: 3

Subject: Communication and Soft Skills Syllabus
Semester-I
Paper I: Fundamentals of Communication Skills

Unit- I Communication Skills
Definition, Process, Types, Barriers

Unit- II Oral Communication
English Sounds, Letters & Words

Unit-III Listening Skills
Types of Listening, Barriers to Effective Listening & Traits of a Good Listener

Unit- IV Stress & Intonation
Word Stress, Sentence Stress, Intonation Patterns

Unit –V Word Building
English & Latin Affixes and Suffixes, One word Substitutes
**Subject : SANSKRIT**  
**SEMESTER - I**  
**PAPER – I : POETRY, PROSE AND GRAMMAR - I**

### Unit – I  
**Old poetry**

1. **ABHIJNAANAM**  
   Ramayanam – Kishkindhaa Kaanda – 6\textsuperscript{th} Canto 1 - 27 Slokas

2. **AATITHYAM**  
   Bhaagavatam – IX Skandha - 21\textsuperscript{st} Adhyaaya – 1 – 36 Slokas

### Unit – II  
**Modern Poetry**

1. **UNNATIHI**  
   From Bharatee Bhushanam by Dr D.N.Deekshit – Page No. 66 – 68

2. **VIVIKTA PUSHPA KARANDAHA**  
   By Dr Rani Sadasiva Murthy, Selected Stanzas – 14

### UNIT – III  
**PROSE**

**MOORKHATAA**  
*APAREEKSHITAKAARAKAM OF PANCHARANTRAM – 3\textsuperscript{rd} & 4\textsuperscript{th} Stories*  

### UNIT IV  
**GRAMMAR**

1. **DECLENSIONS**  
   Nouns ending in vowels, Deva, Kavi, Bhanu, Dhatru, Pitru, Go, Ramaa, Mati

2. **CONJUGATIONS**  
   1\textsuperscript{st} Conjugation – Bhoo, Gam, Shtha, Drusir, Labh, Mud  
   2\textsuperscript{nd} Conjugation – AS  
   10\textsuperscript{th} Conjugation – Bhaash

### UNIT – V  
**GRAMMAR**

1. **SANDHI**  
   Swara Sandhi : Sarvarnadeergha, Ayovayava, Guna, Vruddhi, Yana desa.  
   Halsandhi : Scutva, Stutva, Anunasika

2. **SAMASA**  
   Dwandwa, Tatpurusha, Karmadharaya, Dwigu.
SYLLABUS FOR THE ACADEMIC YEAR 2015-16 (JUNE-TO-OCTOBER)
B.A. I YEAR ARABIC (OL) FIRST SEMESTER
Part II OPTIONAL SUBJECT
FIQH-USOOL-E FIQH AND AQAUED

PRESCRIBED BOOKS: HIDAYA
KITAABUL BAYUTO BAYU-E-FASID

CHAPTERS:
1). KITABUL BAYU
2). KHYARUSSHARTH
3). KHYAREY RUYATH
4). KHYAREY AYEEB
5). BAYE FASID

USOOL-E-FIQH
PRESCRIBED BOOKS: USOOL-E-SAHSII

FORM-PAGE: NO: 5 TO 39

AQAID
PRESCRIBED BOOK: SHARAH-E-AQAID NASHIFFI

FROM: PAGE NO: 1 TO 25

M.I.D. KhajaMohsinuddin
M.A. (Urdu), M.A., M.Phil. Arabic
Head Dept. of Arabic
Jawahar Arabic Degree College
Kurnool - 518 001
4-5-2015
Subject : TAMIL

SEMESTER- I

PAPER - 1
History of Tamil, History of Chittoor Dist, General Composition and Translation


UNIT 4: General Composition and Translation. [English to Tamil]
1. Pen Kalvi
2. Kadugalai Valarppom
3. Mazhai neer segarippu
4. Udart Kalvi
5. Tholaikkatchi Nanmaigal Theemaigal

REFERENCE BOOKS :
1. Dr. C. Balasubramaniyan – Tamil Ilakkiya Varalaru
2. Prof. J. Manuel – Chittoor Maavatta Varalaru
3. Dr. M. Varadarajan – Tamil Ilakkiya Varalaru
Subject: Advanced Urdu Paper - 1

SEMESTER - I

Paper I: URDU PROSE Afsanavi Adab aur Drama

UNIT – I  Novel -  Taaruf aur Irteqa

UNIT – II  Novel ‘Nirmala’ by Premchand

UNIT – III  Afsana -  Taaruf aur Irteqa

UNIT – IV  Urdu Afsane edited by Raziya Sajjad Zaheer.
The following short stories only:

1. ‘Woh’ by Balraj Menra
2. ‘Computer Isq’ by Joginder Pal
3. ‘Lal aur Peela’ by K.A.Abbas
4. ‘Mom ki Mariyam’ by Jeelani Banu
5. ‘Allah de Banda le’ by Raziya Sajjad Zaheer

UNIT – V  Drama ‘Darwaze Khol Do’ by Krishan Chander
Subject: Urdu
SEMESTER - I
Paper I : POETRY

UNIT – I
1. GHAZAL
   MEER – Uli ho gayeen sab tadbeeren
2. NAZM
   IQBAL – Naya Shivalah

UNIT – II
1. GHAZAL
   GHALIB – Ye na thi hamari khismat
2. NAZM
   Akbar Ilahabadi – Nasihat-e-Aqlaqi

UNIT – III
1. GHAZAL
   HALLI – Uske jate hi ye kya ho ghar ki surat
2. NAZM
   FAIZ – Mujhse pehli si muhabbat meri mehboob

UNIT – IV
1. GHAZAL
   YASEER KURNULI – Rafeeq-o- Hamnafas
2. NAZM
   AKHTARUL IMAAN – Khabr

UNIT – V
1. GHAZAL
   RAHI FIDAYI – Apni tareeq ke raqim ke liye
2. NAZM
   IQBAL QUSRO – Izn-e-Aam

Prescribed book: MUNTAKHAB ADAB – I
Subject: TELUGU
I – Semester

సాధన సహాయం:
I

మాయా –
గంగారియాల ప్రత్యేకం

కేవలం నంది పచిపుడు – రాదిపరుచుడు – నాటి ఎండపరుడు (120-165)

“చాలాసాగించడానికి” నడుమ “టాక్ మరియు పరీక్షలు” నిర్ణయించండి

II

మాములు –
మాములు మాముల ప్రత్యేకం

కేవలం నంది పచిపుడు – రాదిపరుచుడు – నాటి ఎండపరుడు (202-242)

ఎంపిక పరీక్షలు .... నిర్ణయించడానికి పరీక్షలు

యేపెట్టాలి యేపెట్టాలి:
III

1) ఎమ్డీ పరీక్షలు
   - మాములి పరీక్షలు

2) టిటి
   - మాములి పరీక్షలు

IV

పరీక్షలు:

1) ఇబ్రాహిమ్ పరీక్షలు
   - పరీక్షలు

2) రామానాయం రామానాయం
   - పరీక్షలు

V

పరీక్షలు:

1) కళాశాలా – కళాశాలా, కళాశాలా, కళాశాలా, కళాశాలా, కళాశాలా, పరీక్షలు, పరీక్షలు, పరీక్షలు, పరీక్షలు, పరీక్షలు

2) విద్య పరీక్షలు – విద్య పరీక్షలు, విద్య పరీక్షలు, విద్య పరీక్షలు, విద్య పరీక్షలు, విద్య పరీక్షలు

3) ఎమ్డీ పరీక్షలు – ఎమ్డీ పరీక్షలు, ఎమ్డీ పరీక్షలు, ఎమ్డీ పరీక్షలు, ఎమ్డీ పరీక్షలు, ఎమ్డీ పరీక్షలు.
I. భాషాసం సంపాదకు సంబంధించిన  పిల్లాల నిఖరించినది  
నంబురు: 68 - 91 నాలుగు  
నాటించిన తరువాత కానుకునే పిల్లాలు 

II. సాంస్కృతికగా పిల్లలను పిల్లల విభాగాల -  
పాటులు: 26 నాలుగు - 50 నాలుగు  
"చాపే తోడపాటు" నాలుగు "మాట్ కాంగ్రెస్" నాలుగు 

III. శాస్త్ర విభాగాల పిల్లలు -  
పాటులు: విభాగాల పిల్లలు (మాట్ విభాగాల)  
నణ్ణ నాలుగు ఎక్కడ 

IV. రాజవంశ విభాగాల పిల్లలు -  
పాటులు: విభాగాల పిల్లలు (మాట్ విభాగాల)  
ధికారి ఎక్కడ 

Paper - I
UNIT – I (GADYA PHULVARI – गद्य पुलवारी)
1. आंसुली की होटी – प्रेमचंद
2. गमला – जयशंकर प्रसाद

UNIT – II (GADYA PHULVARI – गद्य पुलवारी)
1. आदित्य – यशपाल
2. गवाली – मोहन सेवेल

UNIT – III (GADYA PHULVARI – गद्य पुलवारी)
1. धीक की टावल – श्रीधर गाढनी

UNIT – III (GADYA PHULVARI – गद्य पुलवारी)
1. पोरोटिया – जगदीश गडवाली

UNIT – IV (NATAK – नाटक)
1. धूरववाहिनी – जयशंकर प्रसाद

UNIT – V (UPANYAS – NOVEL)
1. आधित्य का विद्रोह – जयरत्न कोहली
FOUNDATION COURSE
HUMAN VALUES AND PROFESSIONAL ETHICS- PAPER- I

Semester-I

Unit –I Introduction to Value Education
1. Value Education, Definition, Concept and Need for Value Education
2. The Content and Process of Value Education
3. Basic Guidelines for Value Education
4. Self exploration as a means of Value Education
5. Happiness and Prosperity as parts of Value Education

Unit-II Harmony in the Human Being
1. Human Being is more than just the Body
2. Harmony of the Self (‘I’) with the Body
3. Understanding Myself as Co-existence of the Self and the Body
4. Understanding Needs of the Self and the needs of the Body
5. Understanding the activities in the Self and the activities in the Body

Unit-III Harmony in the Family and Society and Harmony in the Nature
1. Family as a basic unit of Human Interaction and Values in Relationships.
2. The Basics for Respect and today’s Crisis: Affection, Care, Guidance, Reverence, Glory, Gratitude and Love.
3. Comprehensive Human Goal : The Five Dimensions of Human Endeavour
5. The Holistic Perception of Harmony in Existence

Unit-IV Social Ethics
1. The Basics for Ethical Human Conduct
2. Defects in Ethical Human Conduct
3. Holistic Alternative and Universal Order
4. Universal Human Order and Ethical Conduct
5. Human Rights violation and Social Disparities

Unit-V Professional Ethics
1. Value based Life and Profession
2. Professional Ethics and Right Understanding
3. Competence in Professional Ethics
4. Issues in Professional Ethics – The Current Scenario
Reference Books:

3. Bertrand Russell Human Society in Ethics and Politics
4. Corliss Lamont, Philosophy of Humanism
6. I.C. Sharma Ethical Philosophy of India. Nagin & co Julundhar
7. Mortimer. J. Adler, What Man has Made of Man
8. R. Subramanian, Professional Ethics, Oxford University Press.
8. William Lilly: Introduction to Ethic Allied Publisher