B. Sc. I Physius.

PRACTICALS

Minimum 16 (Eight from each group)

Experiments out of the following or similar experiments of equal standard

GROUP-A

- 1. Study of laws of parallel and perpendicular axes for moment of inertia.
- 2. Moment of inertia of Fly wheel.
- 3. Moment of inertia of irregular bodies by inertia table.
- 4. Study of conservation of momentum in two dimensional oscillations.
- 5. Study of a compound pendulum.
- 6. Study of damping of a bar pendulum under various mechanics.
- 7. Study of oscillations under a bifilar suspension.
- 8. Study of modulus of rigidity by Maxwell's needle.
- Determination of Y, k, η by Scarl's apparatus.
- To study the oscillation of a rubber band and hence to draw a potential energy curve from it.
- 11. Study of oscillation of a mass under different combinations of springs.
- 12. Study of torsion of wire (static and dynamic method).
- 13. Poisson's ratio of rubber tube.
- 14. Study of bending of a cantilever or a beam.
- 15. Study of flow of liquids through capillaries.
- 16. Determination of surface tension of a liquid.
- 17. Study of viscosity of a fluid by different methods.

GROUP-B

- 1. Use of a vibration magnetometer to study a field.
- 2. Study of magnetic field B due to a current.
- Measurement of low resistance by Carey-Foster bridge.
- 4. Measurement of inductance using impedance at different frequencies.
- 5. Study of decay of currents in LR and RC circuits.
- 6. Response curve for LCR circuit and response frequency and quality factor.
- Study of waveforms using cathode-ray oscilloscope.
- 8. Characteristics of a choke and Measurement of inductance.
- 9. Study of Lorentz force.
- Study of discrete and continuous LC transmission line.
- 11. Elementary FORTRAN programs, Flowcharts and their interpretation.
- 18 To find the product of two matrices.
- 19. Numerical solution of equation of motion.
- 20. To find the roots of quadratic equation

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B. Sc.I

- 2. Ball, D. W. Physical Chemistry Thomson Press, India (2007).
- Castellan, G. W. Physical Chemistry 4th Ed. Narosa (2004).
- 4. Mortimer, R. G. Physical Chemistry 3rd Ed. Elsevier: NOIDA, UP (2009).
- 5. Engel, T. & Reid, P. Physical Chemistry 3rd Ed. Pearson (2013).
- Puri, B.R., Sharma, L. R. and Pathania, M.S., Principles of Physical Chemistry, Vishal Publishing Co., 47th Ed. (2016).
- Bahl, A., Bahl, B.S. and Tuli, G.D. Essentials of Physical Chemistry, S Chand Publishers (2010).
- 8. Rakshit P.C., Physical Chemistry, Sarat Book House Ed. (2014).
- Singh B., Mathematics for Chemist, Pragati Publications.

PAPER - IV LABOBATORY COURSE

INORGANIC CHEMISTRY

A. Semi-micro qualitative analysis (using H₂S or other methods) of mixtures - not more than four ionic species (two anions and two cations, excluding interfering, insoluble salts) out of the following:

Cations: NH₄⁺, Pb²⁺, Bi³⁺, Cu²⁺, Cd²⁺, Fe³⁺, Al³⁺, Co²⁺, Ni²⁺, Mn²⁺, Zn²⁺, Ba²⁺, Sr²⁺, Ca²⁺, Na⁴⁺ Anions: CO₃²⁻, S²⁻, SO₃²⁻, S₂O₃²⁻, NO₂⁻, CH₃COO⁻, CI, Br⁻, I, NO₃⁻, SO₄²⁻

(Spot tests may be carried out wherever feasible)

B. Acid-Base Titrations

- Standardization of sodium hydroxide by oxalic acid solution.
- Determination of strength of HCl solution using sodium hydroxide as intermediate.
- Estimation of carbonate and hydroxide present together in mixture.
- Estimation of carbonate and bicarbonate present together in a mixture.
- · Estimation of free alkali present in different soaps/detergents

C. Redox Titrations

- Standardization of KMnO₄ by oxalic acid solution.
- Estimation of Fe(II) using standardized KMnO₄ solution.
- Estimation of oxalic acid and sodium oxalate in a given mixture.
- Estimation of Fe(II) with K₂Cr₂O₇ using internal (diphenylamine, anthranilic acid) and external indicator.

D. Iodo / Iodimetric Titrations

- Estimation of Cu(II) and K₂Cr₂O₇ using sodium thiosulphate solution iodimetrically.
- · Estimation of (a) arsenite and (b) antimony iodimetrically.

- · Estimation of available chlorine in bleaching powder iodometrically.
- Estimation of Copper and Iron in mixture by standard solution of K₂Cr₂O₇ using sodium thiosulphate solution as titrants.

ORGANIC CHEMISTRY

- 1. Demonstration of laboratory Glasswares and Equipments.
- Calibration of the thermometer. 80°-82° (Naphthalene), 113.5°-114° (Acetanilide), 132.5°-133° (Urea), 100° (Distilled Water).)
- 3. Purification of organic compounds by crystallization using different solvents.
 - Phthalic acid from hot water (using fluted filter paper and stemless funnel).
 - Acetanilide from boiling water.
 - Naphthalene from ethanol.
 - · Benzoic acid from water.
- 4. Determination of the melting points of organic compounds.

Naphthalene 80°-82°, Benzoic acid 121.5°-122°, Urea 132.5°-133° Succinic acid 184.5°-185°, Cinnamic acid 132.5°-133°, Salicylic acid 157.5°-158°, Acetanilide 113.5°-114°, m-Dinitrobenzene 90°, p-Dichlorobenzene 52°, Aspirin 135°.

- Effect of impurities on the melting point mixed melting point of two unknown organic compounds.
 - Urea Cinnamic acid mixture of various compositions (1:4, 1:1, 4:1).
- Determination of boiling point of liquid compounds. (boiling point lower than and more than 100 °C by distillation and capillary method).
 - Ethanol 78°, Cyclohexane 81.4°, Toluene 110.6°, Benzene 80°.
- i. Distillation (Demonstration)
 - Simple distillation of ethanol-water mixture using water condenser.
 - Distillation of nitrobenzene and aniline using air condenser.
- ii. Sublimation
 - · Camphor, Naphthalene, Phthalic acid and Succinic acid.
- iii. Decolorisation and crystallization using charcoal.
 - Decolorisation of brown sugar with animal charcoal using gravity filtrations crystallization and decolorisation of impure naphthalene (100 g of naphthalene mixed with 0.3 g of Congo red using 1 g of decolorizing carbon) from ethanol.
- 7. Qualitative Analysis

Detection of elements (N, S and halogens) and functional groups (Phenolic, Carboxylic, Carbonyl, Esters, Carbohydrates, Amines, Amides, Nitro and Anilide) in simple organic compounds.

PHYSICAL CHEMISTRY

- 1. Surface tension measurements.
 - Determine the surface tension by (i) drop number (ii) drop weight method.
 - Surface tension composition curve for a binary liquid mixture.
- 2. Viscosity measurement using Ostwald's viscometer.
 - Determination of viscosity of aqueous solutions of (i) sugar (ii) ethanol at room temperature.
 - Study of the variation of viscosity of sucrose solution with the concentration of solute.
 - Viscosity Composition curve for a binary liquid mixture.

3. Chemical Kinetics

- To determine the specific rate of hydrolysis of methyl/ethyl acetate catalysed by hydrogen ions at room temperature.
- · To study the effect of acid strength on the hydrolysis of an ester.
- To compare the strengths of HCl & H₂SO₄ by studying the kinetics of hydrolysis
 of ethyl acetate.

4. Colloids

 To prepare colloidal solution of silver nanoparticles (reduction method) and other metal nanoparticles using capping agents.

Note: Experiments may be added/ deleted subject to availability of time and facilities

PRACTICAL EXAMINATION

05 Hrs. M.M. 50

Three experiments are to be performed

 Inorganic Mixture Analysis, four radicals two basic & two acid (excluding insoluble, Interfering & combination of acid radicals) OR Two Titrations (Acid-Bases, Redox and Iodo/Iodimetry)

12 marks

2. Detection of functional group in the given organic compound and determine its MPt/BPt,

8 marks

OR

Crystallization of any one compound as given in the prospectus along with the determination of mixed MPt.

OR

Decolorisation of brown sugar along with sublimation of camphor/ Naphthlene.

3. Any one physical experiment that can be completed in two hours including calculations.

14 marks

4. Viva

10 marks

5. Sessionals

06 marks

In case of Ex-Students two marks will be added to each of the experiments

REFERENCE TEXT:

- 1. Mendham, J., A. I. Vogel's Quantitative Chemical Analysis 6th Ed., Pearson, 2009.
- Ahluwalia, V. K., Dhingra, S. and Gulati, A. College practical Chemistry, University Press.
- 3. Mann, F.G. & Saunders, B.C. Practical Organic Chemistry, Pearson Education (2009)
- Furniss, B.S.; Hannaford, A.J.; Smith, P.W.G.; Tatchell, A.R. Practical Organic Chemistry, 5th Ed., Pearson (2012)
- Khosla, B. D.; Garg, V. C. & Gulati, A. Senior Practical Physical Chemistry, R. Chand & Co.: New Delhi (2011).
- Garland, C. W.; Nibler, J. W. & Shoemaker, D. P. Experiments in Physical Chemistry 8th Ed.; McGraw-Hill: New York (2003).
- Halpern, A. M. & McBane, G. C. Experimental Physical Chemistry 3rd Ed.; W.H. Freeman & Co.: New York (2003).

B.Sc. PART I COMPUTER SCIENCE PAPER II

PROGRAMMING IN 'C' LANGUAGE (Paper Code - 0806)

Max Marks: 50

Fundamentals of C Programming: Overview of C: History of 'C', Structure of 'C' program Keywords, Tokens, Data types. Constants, Literals and Variables, Operators and Expressions: Arithmetic operators, Relational operator, Logical operators, Expressions, Operator, operator precedence and associatively, Type costing, Console 1/0 formatting, Unformatted 1/O functions: getch(), getchar, getche(), getc(), putc(), putchar().

UNIT-II

Control Constructs: If-else, conditional operators, switch and break, nested conditional branching statements, loops, do while, while, for Nested loops, break and continue, goto and label, exit function Functions: Definition, function components: Function arguments, return value, function call statement, function prototype. Types of function, Scope and lifetime of variable, Call by value and call by reference.

String: String declaration, initialization, string manipulation with/without using library function. Structure, Union and Emm - Structure Brisis, declaring structure and structure variable, typical statement, array of structure, array within structure. Nested structure; passing structure to function, function returning structure. Union, basics, declaring union and union variable, Enum; declaring emin and enum

UNIT IV

Pointer: Definition of pointer, Pointer declaration. Using & and * operators. Void pointer, Pointer to pointer, Pointer in math expression, Pointer arithmetic, Pointer comparison, Dynamic memory allocation functions mallee, calloe, realloc and free. Pointer vs. Array, Array of pointer, Pointer to array, Pointers to function.

File Handling and Miscellaneous Features: File handling, file pointer. File accessing functions, topon, folose, fpute, fgete, fprintf, fscanf, fread, fwrite,beof, fflush, rewind, fseek, ferror. File handling through command line argument. Introduction to C preprocessor #include, #define, Conditional compilation directives #if, #else, #elif, #endif, #ifndef etc.

TEXT ROOKS:

- 2. Let Us C. VashwantKanetkar, Infinity Science Press, Eighth Edition.
- 3 Mastering C. K.R. Venugopal, Tata McGraw-Hill.
- 4 The C Programming Language, Brian W. Kernighan, Dennis M. Ritchie, Prentice Hall, Second Edition.
- 5. Applications Programming in ANSLC, R. Johnsonbaugh, Martin Kalin, Macmillan, Second Edition.

D> Surjay Kumer) (CLK-Gavel)

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B.Sc. PART - 1 COMPUTER SCIENCE PAPER - 1 COMPUTER FUNDAMENTAL

PAPER CODE - 5885

NOTE: The Question Paper setter is advised to prepare unit-wise question with the approvision of interest, wholee,

UNIT -1 Classification and Organization of Computers

History of computer, Generation of computer, Calculator vs. Computer, Digital and Analog computers and its evolution. Major components of digital computers, Memory addressing emphility of CPU. Word length and processing speed of accomputer. Microprocessers, Single chipMicrocomputer Large and small computers. Users interface, Hardward, software and factowere, multi-programming multi-user system, Dumb smart and intelligent terminals, computer network and multi-processing, LAN parallel processing, Flynn's classification of computers, Control flow and data flow computers.

DNFE-11 Central Processing Unit

persons CPUs ACC Control Unit. Presences Architecture of Jetal 8085 purroprocessor, Instructions for Incl. 8085 purroprocessor, Instruction World stor. Various addressing mode, Interrops Some special Control signals. Presence of the Control Source of Control Signals. Presence of Jetal and Jetal Sow.

UNIT - HI Memory

Memory hierarchy, Primery and Secondary Memory, Cache memory, Virtual Memory Direct Access Storage Devices (DASE), Destructive and Mondestructive Readout, Program and data Memory, Memory Management Unit (MMU), POMICIA Cards and Stora

UNIT-17 UO Devices

I/O devices: Keyboard, Monse, Monitor, Impact and Non-ImpectPrinters, Plotter, Scanner, other Imput/output devices: Scan mathod of Display-Raster Scan, Vector Scan, Bit Mapped Scan, CRT Controller, I/O Port- Programmable and Non-Programmable and Non-Programmabl

THEY AS DECREASE AND PROGRAMMING TECHNIQUES

Unix/Linux (Chana), Libre office etc., Introduction to Machine Language, Assembly Language and High Level Language, Programming Techniques, Stack, Subroutine, Debugging of programs, Macro, Program Design, Software development, Flow Chart, Multi-programming, Multiuser, Multiusking Protection, Operating system and Utility programs Application peckages.

TEXA HOOKS

- L. Computer Fundamentals, P. K. Sinha, BPH Publications, Sixth Edition.
- Computer Frankenentials Architecture and Organization, B. Ram, New Age International Publishers, Fifth Edition.
- Polistancia of Permitters V. Raineaman, P.H. Sixth Edition.
- 4. Computers Today, Durald H. Sanders, McGrave Hell, Third Egibert
- 17 1700 PC & Closes B Goverdamata, McGesw-Fift Second Edition
- 6. UNIX Concepts and Applications, Somitables Das, Tata McCraw-righ, Fourth Edition

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Practical

At least 20 Practical based on Syllabus of Paper-I and Paper-II.

(Dr. A. K. Rained) (Dr. A. K. Rained) (L. K. Gavel) (J. Drynhoun for)

Herri Strankar Prasad Tandle

B.Sc. I (BOTANY)

PRACTICAL

Study of external (Morphorgical) and internal (microscopic/anatomical) features of representative gerera given in the theory.

- Algae: Gloeocapsa, Scytonema, Gloeotrichia, Volvox, Oedogonium, Vaucheria, Chara, Ectocarpus, Sargassum, Batrachosperrmum
- 2. Gram staining
- 3. Fungi: Albugo, Aspergillus, Peziza, Agaricus, Puccinia, Alternaria and Cercospora
- 4. Bryophyta: Riccia, Marchantia, Pellia, Anthoceros, Sphagnum, Funaria
- 5. Pteridophyta: Lycopodium, Selaginella, Equsetum, Marsilea.
- 6. Gymnosperm: Cycas, Pinus, Epherda.

PRACTICAL SCHEME

TIME: 4 Hrs.		M.M.: 50
1. Algae/Fungi/Gram S	taining	10
2. Bryophyta/Pteridoph	nyta	10
Gymnosperm		10
4. Spotting		10
5. Viva-Voce		05
6. Sessional		05
W/g x	Pinpagaralan	Cond.
(Dr. J.N. Verma)	(Dr. Rekha Pimpalgaonkar)	(Dr.Ranjana Shristava)
Proff. & Head	Proff. & Head	Proff. & Head
Govt. D.B. Girls PG College	Govt. N PG Science College	Govt. VYTPG Science College
Raipur, (C.G.)	Raipur, (C.G.)	Raipur, (C.G.)
Smoghe	MmA	

(Mr. Shivakant Mishra)

(Mr Sudheer Tiwari)

Govt. Bilasa Girls College, Bilaspur

(Mrs. Sanchal Moghe)

PRACTICAL SCHEME

TIME: 4 Hrs.		M.M.: 50
1.	Anatomy	08
2.	Economic Botany	04
3.	Physiology	08
4.	Ecology	10
5.	Spotting	10
6.	Viva-Voce	05
7.	Project Work/ Field Study	10

Mca

(Dr. J.N. Verma

Minjurgicalen

(Dr.Ranjana Shristava)

Proff. & Head

Proff. & Head

(Dr. Rekha Pimpalgaonkar)

Proff. & Head

Govt. D.B. Girls PG College

Govt. N PG Science College

Govt. VYTPG Science College

Raipur, (C.G.)

Raipur, (C.G.)

Raipur, (C.G.)

Smoghe (Mrs. Sanchal Moghe)

(Mr. Shivakant Mishra)

(Mr Sudheer Tiwari)

Govt. Bilasa Girls College, Bilaspur

PRACTICAL SCHEME

TIME: 4 Hrs.		M.M.: 50
1.	Plant Disease/Symptoms	10
2.	Instrumentation techniques	05
3.	Staining of Microbes	05
4.	Tissue Culture techniques	05
5.	Spotting	10
6.	Project Work/ Field Study	05
5.	Viva-Voce	05
6.	Sessional	05

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Minhodoler

(Dr. J.N. Verma)

(Dr. Rekha Pimpalgaonkar)

Proff. & Head

Proff. & Head

Govt. D.B. Girls PG College

Govt. N PG Science College

Raipur, (C.G.)

Raipur, (C.G.)

(Dr.Ranjana Shristava)

Proff. & Head

Govt. VYTPG Science College

Raipur, (C.G.)

Zoology B.Sc. Part I 2018-19 Practical

The practical work will, in general be based on the syllabus prescribed in theory and the candidates will be required to show knowledge of the following:-

- · Dissection of Earthworm, Cockroach, Palaemon and Pila
- Minor dissection—appendages of Prawn & hastate plate, mouth parts of insects, radulla
 of Pila.

(Alternative methods: By Clay/Thermacol/drawing/Model etc.)

- · Adaptive characters of Aquatic, terrestrial, aerial and desert animals.
- Museum specimen invertebrate
- · Slides- Invertebrates, frog embryology, Chick embryology and cytology,

Scheme of Practical Exam	Time: 3hrs	
1. Major Dissection	10 Marks	
2. Minor Dissection	05 Marks	
3. Comments on Excersice based on Adaptation	04 Marks	
4. Cytological Preparation	05 Marks	
5. Spots-8 (Slides-4, Specimens-4)	16 Marks	
6. Sessional	10 Marks	

B. Sc. M Physics

Minimum 16 (Eight from each group)

Experiments out of the following or similar experiments of equal standard

- 1. Study of Brownian motion.
- 2. Study of adiabatic expansion of a gas.
- 3. Study of conversion of mechanical energy into heat.
- 4. Heating efficiency of electrical kettle with varying voltage.
- 5. Study of temperature dependence of total radiation.
- 6. Study of temperature dependence of spectral density of radiation.
- 7. Resistance thermometry.
- 8. Thermo emf thermometry.
- 9. Conduction of heat through poor conductors of different geometries.
- Experimental study of probability distribution for a two-option system using a coloured dice.
- Study of statistical distribution on nuclear disintegration data (GM counter used as a black box).
- 12. Speed of waves on a stretched strings.
- 13. Studies on torsional waves in a lumped system.
- 14. Study of interference with two coherent source of sound.
- 15. Chlandi's figures with varying excitation and loading points.
- 16. Measurements of sound intensities with different situations.
- 17. Characteristics of a microphone-loudspeakers system
- 18. Designing an optical viewing system.
- Study of monochromatic defects of images.
- 20. Determining the principle point of a combination of lenses.
- 21. Study of interference of light (biprism or wedge film).
- 22. Study of diffraction at a straight edge or a single slit.
- Study of F-P etalon fringes.
- 24. Study of diffraction grating and its resolving power.
- 25. Resolving power of telescope system.
- 26. Polarization of light by reflection; also cos-squared law.
- 27. Study of optical rotation for any system.
- 28. Study of laser as a monochromatic coherent source.
- 29. Study of a divergence of laser beam.
- 30. Calculation of days between two dates of a year.
- 31. To check if triangle exists and the type of a triangles.

SV 11/6/2018

32. To find the sum of the sine and cosines series and print out the curve.

B. Sc. II Chemistry

Jablonski diagram depicting various process occurring in the excited state, qualitative description of fluorescence, phosphorescence, non-radiative processes (internal conversion, intersystem crossing), photosensitized reactions, energy transfer processes (simple examples), photostationary states, Chemiluminescence.

REFERENCE BOOKS

- 1. Physical Chemistry, G. M. Barrow, International student edition, McGraw Hill.
- 2. University General Chemistry, C. N. R. Rao, Macmillan.
- 3. Physical Chemistry, R. A. Alberty, Wiley Eastern.
- 4. The elements of physical chemistry, Wiley Eastern.
- 5. Physical Chemistry through problems, S. K. Dogra & S. Dogra, Wiley Eastern.
- 6. Physical Chemistry, B. D. Khosla,.
- 7. Physical Chemistry, Puri & Sharma.
- 8. Bhautik Rasayan, Puri, Sharma and Pathania, Vishal Publishing Company.
- 9. Bhautik Rasayan, P. L. Soni.
- 10. Bhautik Rasayan, Bahl and Tuli.
- 11. Physical Chemistry, R. L. Kapoor, Vol I-IV.
- 12. Chemical kinetics, K. J. Laidler, Pearson Educations, New Delhi (2004).

Paper -IV

LABORATORY COURSE

INORGANIC CHEMISTRY

Qualitative semimicro analysis of mixtures containing 5 radicals. Emphasis should be given to the understanding of the chemistry of different reactions. The following radicals are suggested:

Mixtures should preferably contain one interfering anion, or insoluble component (BaSO₄, SrSO₄, PbSO₄, CaF₂ or Al₂O₃) or combination of anions e.g. CO₃²⁻ and SO₃²⁻, NO₂⁻ and NO₃⁻, Cl̄, Br̄, and l̄.

Volumetric analysis

- (a) Determination of acetic acid in commercial vinegar using NaOH.
- (b) Determination of alkali content-antacid tablet using HCl.

- (c) Estimation of calcium content in chalk as calcium oxalate by permanganometry.
- (d) Estimation of hardness of water by EDTA.
- (e) Estimation of ferrous & ferric by dichromate method.
- (f) Estimation of copper using thiosulphate.
- Principles involved in chromatographic separations. Paper chromatographic separation of following metal ions: i. Ni (II) and Co (II) ii. Fe (III) and Al (III)

ORGANIC CHEMISTRY

- Detection of elements (X, N, S).
- Qualitative analysis of unknown organic compounds containing simple functional groups (alcohols, carboxylic acids, phenols, nitro, amine, amide, and carbonyl compounds, carbohydrates)
- · Preparation of Organic Compounds:
 - (i) m-dinitrobenzene,(ii) Acetanilide,(iii) Bromo/Nitro-acetanilide,(iv) Oxidation of primary alcohols-Benzoic acid from benzylacohol,(v) azo dye.

PHYSICAL CHEMISTRY

Transition Temperature

 Determination of the transition temperature of the given substance by thermometric/ dialometric method (e.g. MnCl₂.4H₂O/SrBr₂.2H₂O).

Thermochemistry

- Determination of heat capacity of a calorimeter for different volumes using change of enthalpy data of a known system (method of back calculation of heat capacity of calorimeter from known enthalpy of solution or enthalpy of neutralization).
- Determination of heat capacity of the calorimeter and enthalpy of neutralization of hydrochloric acid with sodium hydroxide.
- To determine the solubility of benzoic acid at different temperature and to determine ΔH
 of the dissolution process.
- To determine the enthalpy of neutralization of a weak acid/ weak base versus strong base/ strong acid and determine the enthalpy of ionization of the weak acid/ weak base.
- To determine the enthalpy of solution of solid calcium chloride and calculate the lattice energy of calcium chloride from its enthalpy data using Born Haber cycle.

Phase Equilibrium

- To study the effect of a solute (e.g. NaCl, Succinic acid) on the critical solution temperature of two partially miscible liquids (e.g. phenol-water system) and to determine the concentration of that solute in the given phenol-water system.
- To construct the phase diagram of two component system (e.g. diphenylamine benzophenone) by cooling curve method.
- Distribution of acetic/ benzoic acid between water and cyclohexane.
- Study the equilibrium of at least one of the following reactions by the distribution method:
 - (i) $I_2(aq) + \Gamma \rightarrow \Gamma_3(aq)^{2+}$
 - (ii) $Cu^{2+}(aq) + nNH_3 \rightarrow Cu(NH_3)n$

Molecular Weight Determination

Determination of molecular weight by Rast Camphor and Landsburger method.

Note: Experiments may be added/ deleted subject to availability of time and facilities.

Reference Books

- 1. Mann, F.G. & Saunders, B.C. Practical Organic Chemistry, Pearson Education (2009)
- Furniss, B.S., Hannaford, A.J., Smith, P.W.G. & Tatchell, A.R. Practical Organic Chemistry, 5th Ed. Pearson (2012)
- Ahluwalia, V.K. & Aggarwal, R. Comprehensive Practical Organic Chemistry: Preparation and Quantitative Analysis, University Press (2000). 22
- Ahluwalia, V.K. & Dhingra, S. Comprehensive Practical Organic Chemistry: Qualitative Analysis, University Press (2000).
- Khosla, B. D.; Garg, V. C. & Gulati, A. Senior Practical Physical Chemistry, R. Chand & Co.: New Delhi (2011). Garland, C. W.; Nibler, J. W. & Shoemaker, D. P. Experiments in Physical Chemistry 8th Ed.; McGraw-Hill: New York (2003).
- Halpern, A. M. & McBane, G. C. Experimental Physical Chemistry 3rd Ed.; W.H. Freeman & Co.: New York

Three Experiments are to be performed.

1. Inorganic - Qualitative semimicro analysis of mixtures.

12 marks

OR

One experiment from synthesis and analysis by preparing the standard solution.

2. (a) Identification of the given organic compound & determine its M.Pt./B.Pt.

6 marks

- (b) Determination of Rf value and identification of organic compounds by paper chromatography.6 marks
- Any one physical experiment that can be completed in two hours including calculations.

12 marks

4. Viva 10 marks

5. Sessional 04 marks

In case of Ex-Students one marks will be added to each of the experiment.

B. SC. ((S) ILYear

COMPUTER SCIENCE

PAPER - I

COMPUTER HARDWARE

(Paper Code - 0855)

Duration 3 hours

Max.Marks 50

The emphasis in on the desing concepts & organizational details of the common PC, lessing the complicated electronics of the system of the computer Engineers.

OBJECT OF THE COURSE -

- 1. To introduce the overall organisation of the microcomputers.
- 2 To introduce the common peripheral devices used in computers.
- 3. To introduce the hardware components, use of micro processor and function of

Since the computer organisation study is very west & complicated, so the study is restricted to only the description and understanding part, fonce the paper setter is requested to keep this important factor in mind

UNIT-I CLASSIFICATION AND ORGANIZATION OF COMPUTERS

Digital and analog computers and its evalution. Major components of digital computers; Memory addressing capability of CPU; word length and processing speed of computes. Microprocessors single chip microcomputers; large and small computers. Users interface Hardware software and firmware, multi programming multi user system. Dunc smart and intelligent perminals computer network and multi processing, LAM posable) processing. Flinn's classification of computers. Computer flow and data flow computers.

INIT-II CENTRAL PROCESSING UNIT.

CPU organization, AU control unit registers. Instructions for INSEL 8085, Instruction word size, Various addressing mode interrupts and exceptions, some special Control signals and 1/0 devices. Instruction cycle tenth and menute operation, time thacting

INTI-III MEMORY OF COMPUTERS.

Main memory secondary memory, backup memory, cache memory; real and virtual Memory Semiconductor memory. Memory controller and magnetic memory: RAM: disks, optical disks Magnetic bubble memory: DASD, destructive and non destructive. readout. Program of data Memory and MMU.

UNIT-IV I/O DEVICES.

1/0 devices of micro custraller; processes. 1/0 devices, printer, plotter, other out put devices, 1/0 port serial data transfer screme, Micro controller, signal processor, I/O processor I/O processor arithmetic processor.

UNIT-V SYSTEM SOFTWARE AND PROGRAMMING TECHNIQUE.

ML, AL, HLL, stac subroutine debugging of programs macro, micro programming, Program Design, activace development, flow & chart multi programming, multiplear, multi tasking Piczection, operating system and utility program, application pulsage.

war gastoile Hawken Person Tade thrown thanks Person Tade

RECOMMENDED BOOKS

- Computer Purchasentals: Architecture and Organization By B. Raw (Wiley East-
- Computers Today

- By Donal H. Sanders

Computers Fundamental

- By Rajaranna.

IBM PC - XT Clones

- By Govinda Rajalu

PAPER - II SCFTWARE

(Paper Code - 0856)

Introduction to the web-language-RDML & problem solving through the concept of object oriented programming.

OBJECT OF THE COURSE -

- To introduce the internet & web related technology & learn the intricacies of web-page designing using HIML.
- To introduce the object criested programming concept using C++ language.
- To invivolute the problem solving methodology using the C++ programming features.
- N.B. : Examiners are requested to propare unit-wise Questions papers.

UNIT-I HTML BASICS & WEB SITE DESIGN PRINCIPLES

Orscept of a Web Site, Web Standards, What is HTML7 RTML Versions, Naming Scheme for HIML Documents , HIML document/file, HIML Editor , Explanation of the Structure of the homepage , Elements in HIML Documents , HIML Tags, Basic HIME, Tags, Comment tag in HIME, Viewing the Source of a web page, How to download the web page source? XHTML, CSS, Extensible Markup Language (XML), Extensible Style sheet language (XSL), Some tipe for designing web pages, HIML Document Structure, HIML Document Structure-Head Section, Illustration of Document Structure, <BASE> Element, <ISINDEX> Element, <LINK> Element ,META, <TITLE> Element, <SCRIFT> Element , Practical Applications, HTML Document Structure-Body Section: Body elements and its attributes: Background; Background Oblor; Text; Link; Active Link (ALING; Vinited Link (VLING); Left margin; Top margin; Constitution of Riements in the BEW of the document: Year Block Elements, Test Espiasis Elements: Special Elements — Ryxertaxt Anchorn: Character-Level Elements; Character References , Text Block Elements: FR (Forizontal Line); Ph (Headings) : P (Paragraph) : Lists; APDRESS : BLOCKQUATE; TABLE; DIN (FIME 3.2 and up) ; FRE (Preformatted); FORM . Text Emphasis Elements, Special Elements - Hypertext Anchors , Character-Level Elements: line breaks (BR) and Images (IMG), Lists , ADDRESS Element, BLOCKQUOTE Element, TABLE Element, COMMENTS in HTML , CHARACTER Emphasis Modes, Logical & Physical Styles, Netscape, Microsoft and Advanced Standard Elements List, PONT, BASEFONT and CENTER.

INTT-II IMAGE, INTERNAL AND EXTERNAL LINKING BETWEEN WEBPAGES Netscape, Microsoft and Advanced Standard Elements List, FUNT, HASEFUNT and CENTER Insertion of images using the element IMG (Attributes: SRC (Source),

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WIDTH, HEIGHT, ALT (Alternative), ALIGN), ING (In-line Images) Element and Attributes; Illustrations of ING Alignment, Image as Hypertext Anchor, Internal and External Linking between Web Pages Hypertext Anchors , HREF in Anchors , Links to a Particular Place in a Document , NAME attribute in an Anchor , Targeting NAME Anchors , TITLE attribute, Fractical II Application Designing web pages links with each other, Designing Praces in HTML. Practical examples.

UNIT-III INTRODUCTION TO COP

Advantages of COP, The Object Oriented Approach, Characteristics of object catented languages Coject. Classes. Inheritance, Reseability, Polymorphism and

Arction: Rection Declaration, Calling Purction, Function Defines, Passing Argument to function, Dassing Constant, Passing Value, Reference Argument, returning by reference, Inline Function, Purction Overloading, Default Argumets in function.

UNIT-IV OBJECT CLASSES AND INHERITANCE

Object and Class, Using the class, class constructor, class destructors, direct as function argument , copy constructor , struct and classes , array as class member. Static Class Data, Static Member Functions, , Priend function, Priend class, operator overloading. Type of inheritance, Base class, Derive class. Access Specifier: protected Arction Overriding, member function, String, Template Function.

UNIT-V POINTERS AND VIRTUAL FUNCTION

pointers: 5 and * operator pointer variables, pointer to pointer, void pointer, pointer and array, pointer and function, pointer and string, memory management, new and delete, pointer to driet, this pointer Virtual Anction Virtual Arction, Virtual member function, assesses with pointer, pure virtual function

File and Stream: C++ streams, C++ Manapulators, Stream class, String I/O, Six: I/O, Object I/O, I/O with multiple driedt, Disk I/O,

RECOMMENDED BOOKS :

- Introduction to HIML
- Kamlesh Agarwala, O.P.Vyas, Prateek
 - A. Agrawala (Kitab Mahal Publication)

2 Let us C++

- Y. Kanetkar B.P.B Publication
- 3 Programming in C++
- E. Balaguruswami

4 Mastering in C++

- Venu Gopal
- 5 Object Oriented Programming in C++
- Lafore R. Galgotia Publications.

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Books Recommended:

Nelson, DL, Cox, MM, Lehninger *Principles of Biochemistry*, W.H. freeman and Company, New York, USA.

Cooper, GM, The Cell: A Molecular Approach, ASM Press & Sunderland, Washington, D.C. Sinauer Associates, MA.

Singh BD, Fundamental of Genetics, Kalyani Publication

Singh BD, Genetics, Kalyani Publication

Gupta, PK, Cell and Molecular Biology, Rastogi Publications, Meerut

Singh, BD, Biotechnology: Expanding Horizons, Kalyani publications

Gupta, PK, Elements of Plant Biotechnology, Rastogi Publications, Meerut

Gupta, SN, Concepts of Biochemistry, Rastogi Publications, Meeru

Jain, JL., Jain S, Jain, N, Fundamentals of Biochemistry, S Chand Publishing, New Delhi

B.Sc.-III (Botany)

Practical

- 1. Study of host parasite relationship pf plant diseases listed above.
- Demonstration of preparation of Czapek's Dox medium and Potato dextrose agar medium, sterilization of culture medium and pouring.
- 3. Inoculation in culture tubes and petriplates.
- 4. Gram Staining.
- 5. Microscopic examination of Curd.
- 6. Study of plant diseases as listed in the theory paper.
- 7. Biochemical test of carbohydrate and protein.
- 8. Instrumentation techniques

Zoology B.Sc. Part II 2018-19 Practical

The practical work in general shall be based on the syllabus prescribed and the students will be required to show the knowledge of the following:

- · Study of the representative examples of the different chordates (Classified characters).
- Dissection of various systems of scoliodon-Afferent and Efferent branchial cranial nerves, internal ear.

Alternative methods: By Clay/Thermacol/ Drawing/ Model etc.)

- · Simple microscopic technique through unstained or stained permanent mount.
- Study of prepared slides histological, as per theory papers.
- · Study of limb girdles and vertebrae of Frog, Varanus, Fowl and Rabbit.
- · Identification of species and individual of honey bee.
- · Life cycle of honey bee and silkworm.
- · Exercise based on Evolution and Animal behavior.

Scheme of Practical Exam Time: 3:30hrs Major dissection (Cranial nerves/efferent branchial vessel) 10 05 Exercise based on evolution · Exercise based on applied zoology 05 · Exercise based on animal behavior 04 Spotting-8 (slides-4,bones-2,specimen-2) 16 Viva 05 05 Sessional marks.

B-So. 127 Physiu.

TEXT AND REFERENCE BOOKS:

- 1. Introduction to solid state physics: C. Kittel.
- 2. Solid State Physics: A.J. Dekkar.
- 3. Electronic Circuits: Mottershead.
- 4. Electronic Circuits: Millman and Halkias.
- 5. Semiconductor Devices: S.M. Sze.
- 6. Electronic devices: T.L. Floyd.
- 7. Device and Circuits: J. Millman and C. Halkias.
- 8. Electronic Fundamental and Applications: D. Chatopadhyay and P.C. Rakshit.
- 9. Electricity and Magnetism: K.K. Tiwari.

PRACTICALS

Minimum 16 (Eight from each group)

Experiments out of the following or similar experiments of equal standard

- 1. Determination of Planck's constant.
- 2. Determination of e/m by using Thomson tube.
- 3. Determination of e by Millikan's methods.
- Study of spectra of hydrogen and deuterium (Rydberg constant and ratio of masses of electron proton).
- 5. Absorption spectrum of iodine vapour.
- 6. Study of alkali or alkaline earth spectra using a concave grating.
- 7. Study of Zeeman effect for determination of a Lande g-factor.
- 8. Analysis of a given band spectrum.
- 9. Study of Raman spectrum using laser as an excitation source.
- 10. Study of absorption of alpha and beta rays.
- 11. Study of statistics in radioactive measurement.
- Conjometric study of crystal faces.
- 13. Determination of dielectric constant.
- Hysteresis curve of transformer core.
- 15. Hall-probe method for measurement of magnetic field.
- 16. Specific resistance and energy gap of semiconductor.
- 17. Characteristics of transistor.
- 18. Characteristics of tunnel diode.
- 19. Study of voltage regulation system.
- 20 Study of regulated power supply.

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- 21. Study of lissajous figures using CRO.
- 22. Study of VTVM.
- 23. Study of RC and TC coupled amplifiers.
- 24. Study of AF and RF oscillators.
- 25. Find roots of f(x) = 0 by using Newton-Raphson Method.
- 26. Find root of f(x) = 0 by using secant method.
- 27. Integration by Simpson rule.
- 28. To find the value of V at
- 29. String manipulations.
- 30. Towers of Hanoi (Non-recursive).
- 31. Finding first four perfect numbers.
- 32. Quadratic interpolation using Newton's forward-difference formula of degree two.

TEXT AND REFERENCE BOOKS:

- 1. B.G. Strechman, Solid state electronics devices II edition (Prentice-Hall of India New Delhi 1986)
- 2. W.D. Stanley, Electronics devices, circuits and applications (Prentice-Hall new jersey, USA 1988).
- 3. S. Lipschutz and A Poe; Schaum's outline of theory and problems of programming with Fortran (Mc Graw-Hill Book Co. Singapore, 1986).

4. C Dixon, Numerical Analysis.

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B.Sc. Part- III

PRACTICAL

Max. Marks-50

INORGANIC CHEMISTRY

Gravimetric analysis:

- Estimation of nickel (II) using Dimethylglyoxime (DMG).
- · Estimation of copper as CuSCN
- Estimation of iron as Fe₂O₃ by precipitating iron as Fe(OH)₃.
- Estimation of Al (III) by precipitating with oxine and weighing as Al(oxine)₃ (aluminium oxinate).
- Estimation of Barium as BaSO₄

Inorganic Preparations:

- Tetraamminecopper (II) sulphate, [Cu(NH₃)₄]SO₄.H₂O
- Cis and trans K[Cr(C₂O₄)₂. (H₂O)₂] Potassium dioxalatodiaquachromate(III)
- · Tetraamminecarbonatocobalt (III) ion
- Potassium tris(oxalate)ferrate(III)/ Sodium tris(oxalate)ferrate(III)
- Cu(I) thiourea complex, Bis (2,4-pentanedionate) zinc hydrate; Double salts (Chrome alum/ Mohr's salt)

ORGANIC CHEMISTRY

- Preparation of organic Compounds
 - Acetylation of one of the following compounds: amines (aniline, o-, m-, p- toluidines and o-,m-, p-anisidine) and phenols (β-naphthol, vanillin, salicylic acid)
 - Benzolyation of one of the following amines (aniline, o-, m-, p- toluidines and o-, m-, panisidine) and one of the following phenols (β-naphthol, resorcinol, p cresol) by Schotten-Baumann reaction.
 - Bromination of any one of the following: a. Acetanilide by conventional methods
 b.Acetanilide using green approach (Bromate-bromide method)
 - Nitration of any one of the following: a. Acetanilide/nitrobenzene by conventional method b. Salicylic acid by green approach (using ceric ammonium nitrate).
 - Reduction of p-nitrobenzaldehyde by sodium borohydride.
 - · Hydrolysis of amides and esters.
 - Semicarbazone of any one of the following compounds: acetone, ethyl methyl ketone, cyclohexanone, benzaldehyde.

- Benzylisothiouronium salt of one each of water soluble and water insoluble acids (benzoic acid, oxalic acid, phenyl acetic acid and phthalic acid).
- Aldol condensation using either conventional or green method.
- Benzil-Benzilic acid rearrangement.
- · Preparation of sodium polyacrylate.
- · Preparation of urea formaldehyde.
- · Preparation of methyl orange.

The above derivatives should be prepared using 0.5-1g of the organic compound. The solid samples must be collected and may be used for recrystallization, melting point and TLC.

- Qualitative Analysis Analysis of an organic mixture containing two solid components using water, NaHCO₃, NaOH for separation and preparation of suitable derivatives.
- Extraction of caffeine from tea leaves.
- Analysis of Carbohydrate: aldoses and ketoses, reducing and non-reducing sugars.
- Identification of simple organic compounds by IR spectroscopy and NMR spectroscopy. (Spectra to be provided).
- Estimation of glycine by Sorenson's formalin method.
- Study of the titration curve of glycine.
- 8. Estimation of proteins by Lowry's method.
- Study of the action of salivary amylase on starch at optimum conditions.
- Effect of temperature on the action of salivary amylase.

PHYSICAL CHEMISTRY

Conductometry

- · Determination of cell constant
- Determination of equivalent conductance, degree of dissociation and dissociation constant of a weak acid.
- Perform the following conductometric titrations:
 - i. Strong acid vs. strong base
 - ii. Weak acid vs. strong base
 - iii. Mixture of strong acid and weak acid vs. strong base
 - iv. Strong acid vs. weak base
- To determine the strength of the given acid conductometrically using standard alkali solution.
- To determine the solubility and solubility product of a sparingly soluble electrolyte conductometrically
- · To study the saponification of ethyl acetate conductometrically.

Potentiometry/pH metry

Perform the following potentio/pH metric titrations:

- i. Strong acid vs. strong base
- ii. Weak acid vs. strong base
- iii. Dibasic acid vs. strong base
- iv. Potassium dichromate vs. Mohr's salt
- v. Determination of pKa of monobasic acid

UV/ Visible spectroscopy

- Verify Lambert-Beer's law and determine the concentration of CuSO₄/KMnO₄/K₂Cr₂O₇ in a solution of unknown concentration
- Determine the concentrations of KMnO₄ and K₂Cr₂O₇ in a mixture.
- · Study the kinetics of iodination of propanone in acidic medium.
- Determine the amount of iron present in a sample using 1,10-phenathroline.
- · Determine the dissociation constant of an indicator (phenolphthalein).
- Study the kinetics of interaction of crystal violet/ phenolphthalein with sodium hydroxide.
- Study of pH-dependence of the UV-Vis spectrum (200-500 nm) of potassium dichromate.
- Spectral characteristics study (UV) of given compounds (acetone, acelaldehyde, acetic acid, etc.) in water.
- Absorption spectra of KMnO₄ and K₂Cr₂O₇ (in 0.1 M H₂SO₄) and determine λ_{max} values.

Note: Experiments may be added/deleted subject to availability of time and facilities

REFERENCE BOOKS:

- Vogel, A.I. Quantitative Organic Analysis, Part 3, Pearson (2012).31
- 2. Mann, F.G. & Saunders, B.C. Practical Organic Chemistry, Pearson Education (2009)
- Furniss, B.S.; Hannaford, A.J.; Smith, P.W.G.; Tatchell, A.R. Practical Organic Chemistry, 5th Ed., Pearson (2012)
- Ahluwalia, V.K. & Aggarwal, R. Comprehensive Practical Organic Chemistry: Preparation and Quantitative Analysis, University Press (2000).
- Ahluwalia, V.K. & Dhingra, S. Comprehensive Practical Organic Chemistry: Qualitative Analysis, University Press (2000)
- 6. Manual of Biochemistry Workshop, 2012, Department of Chemistry, University of Delhi.

Five experiments are to be performed.

1. Inorganic - Two experiments to be performed. Gravimetric estimation compulsory

08 marks. (Manipulation 3 marks)

Anyone experiment from synthesis and analysis

04 marks.

 Organic - Two experiments to be performed. Qualitative analysis of organic mixture containing two solid components, compulsory carrying 08 marks (03 marks for each compound and two marks for separation).

One experiment from synthesis of organic compound (Single step)

04 marks.

3. Physical-One physical experiment

12 marks.

4. Sessional

04 marks.

5. Viva Voce

10 marks.

In case of Ex-Students one mark each will be added to Gravimetric analysis and Qualitative analysis of organic mixture and two marks in Physical experiment.

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COMPUTTER SCIENCE

PAPER - I

(Paper Code-0909)

COMPUTER HARDWARE PART-C

The orbitals is on the decise concepts & organisational details of the owner PC. leaving the complicated Electronics of the system to the computer engineers.

Objective of the Oburse :

- 1. To introduce the overall organization of the microcomputers and operating
- To inturable the interaction of compon devices used with computers with operating softwares, excluding the Assembly languages, with special reference to DOS/WINDOWS.
- 3 To introduce the working of hardware components, Micro-Processor and various chips used in micro-companies by operating system, without the use of electronic circultay.
- 4 To introduce the use of operating systems architecture with IBM-PC & closes, excluding Ascembly language, with forms an important part of hardwares.
- Since the computer organisation study is very vast & complicated, so the study is motoristed only to the description and understanding part, hence the paper-setter is expected to keep this impacted factor in mind.

UNIT-1 : ORGANISATION OF Micro-Processor & MIRCY-COMPUTER :-

- Introduction & organisation of Micro-Computer :
 - W Radio Components of Micro-computer Basic Block: Prom rass owners Data memory; I/O Ports: Clock generator; Integration of functional blocks.
 - Interexprecting Cappenents in a Micro-computer : Necessary functional block; Bussed architecture for microcomputer; memory addressing; Addressing I/O ports; comparision of I/O mapped and memory mapped I/O.
 - H Input Output Techniques : Min-CPU devices, Program & interrupt controlled I/O; Hurbars extinited I/O or DMS.
- An Introduction to the various as :
 - at General understanding of different #F or CPU : Intel 8088, 286, 386, 486, 586 Pentium, PS4C, MMX PSSC; Motorola 6800 & 88100 series; CYRIX & AMD CPUs.
 - b) The Registers of CRJ : (Give Example of P-9098) Register organisation of
 - id Newbry addressing modes of P-8088; Regress offset, Data addressing modes; Addressing for branch instructions.
 - I/O Addressing with P-8088 : Memory mapped 1/O & I/O suppost 1/O.

UNIT-2 : SYSTEM HARDWARE ORGANISATION OF COMPUTERS :

- 1 Hardware Organisation of the Personal Computer :
 - (a) Block diagram with various parts of PC.
 - t) The Mother Board of General P.C. : 8088 CPU; ROM & RAM; Keyboard

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& its interface; System timer/counters; Hardware interrupt vectoring; DMA controller & charmels; Interfecing to audio speaker; Bus slots & facture courds.

- () The Serial I/O ports, COM-1 & COM-2.
- if The parallel Fort for Printer.
- Expansion Slots for RAM.
- € Disk Controllers : For floppy, Hard disk, CD-ROM & Cassets drives.

2. The Video Display of PCs :

- W Video Nomitorn, Monochrome and colour
- th Video Display Adapters & Their Video Modes; Monochrome & colour graphics adapters.
- d Video Control Through AMSI-SYS.
- d Video Control Through ROM-BOIS : DWT 10H.
- th Direct Video Control; Monochrom & colour graphics adapters.
- f Installing Customized Character Sets.

UNIT-3 : ORGANISATION OF OPERTING SYSTEM WITH SYSTEM HARDWARE :

The ROM-BIOS Services :

- OF Introduction to INIX, EMIX, EXN, solaris, DOS & MAC with special reference to DOS & Windows, its ver., as DOS becomes more popular than others in PCs.
- ti The ROM-BIOS Diskette Services, INT 13H.
- d The RIM-BIOS Serial Port Services, INT 14H.
- d The ROM-BIOS Reyboard Services, INT 16H.
- The ROW-RIOS Printer Services, INT 178.
- Miscellaneous Service Provided by the RDM-SIGS : DMT CSB, DWT LLH. INT 12H, INT 18H, INT 19H, INT 1AH.
- The fundamental of Operating System viz. DOS/WINDOWS :
 - W The loading of DOS & Its Basic Structure ; RDM bootstrap, NO.SYS, DOS.SYS & Command..COM.
 - b) The Execution of the programs under DOS ; EXEC functions, program segment prefix; Features of CIM & EXE program files.
 - id Device Handling by Dos , FDD, HDD, CON, Keyboard, FRN, AUX, CLOCK and NVL devices; Block devices; Character devices; Driver installation sequence.
 - if File Structures of DOS ;
 - # The DOS Interrupts : INT 20H-2FH
 - The DOS functions through IMT 21H; Discuss only the understanding part of various other INS function to handle hand & softweres.
 - by Transillation of windows important system files in windows.

LMTT-4 : ORGANIZATION & HANDLING BY OPERATING SYSTEMS :

Disk and Files under DOS :

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files; disk or mot directory.

- B File Organisation on a DOS disk : Logical volumes ; Sub-directories; Volume
- Manufulating Files under DDS : File attributes : date and time, file Access: PCB functions.

Memory Allocation, Program Loading and Execution :

- W Memory Management under DOS : EXEC loader; Memory Management & its functions; Modifying a Program's memory allocation.
- U Loading and Executing Programs under DOS The EXEC function; Microry considerations, parameter blocks; calling & returning from EXEC.
- il Loading the program overlays through EXEC.

UNIT-5 : ORGANISATION OF HARDWARE BY OPERATING SYSTEM :

- Interrupt Handling through DOS :
 - W Types of interrupts.
 - to Interrupt Vector Table in PC.
 - (d) Interrupt Service Routines.
 - d Special Interrupts in RC : Clock Interrupt; The -C or Break Interrupt ; INS reserved interupt INT 28H; Fetching memory resident routines.

2. Filters for DDS :

- to Filters in operating systems.
- ti Redirection of I/O under DOS.
- if The Filters Supplied with MS.
- (3 Writing Filters to run under DOS.
- 3. Handling of Various Versions of Windows O.S. :
 - W Setup Installation
 - t) Trouble shooting
 - () Networking Seatures

Text Book :

1 Hardware and Software of Personal Computers. By Sarrjay K. Bose. (Wiley Eastern Ltd. New Delhi).

Supporting Text Books :

- Digital System from Gates to Mirosprocessor. By Sanjay K. Bosc. (Wiley Eastern Ltd. New Delhi).
 - Computer Passimentals : Architecture & Organisation. By B. Ram., (Wiley Eastern Ltd. New Delhi).

Reference Books :

- IBM PC-XT and Clones : By Govinda Rajalu.
- 2 Microgrocessor and interfacing : Dy Douglas Hall.
- 3 Instight the TEM-PC : Peter Norton.
- 4 Micriprocessor System : 8086/8088 family architecture, programming & design : Sy Lau and Gibson.

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PAPER - II

(Paper Code-0910)

Atm : To introduce DBMS and RDBMS using Back-end tool and Front-end tool. Object of the Course :

- 1 To introduce Data BAse Management System concepts.
- 2 "To introduce the Relational Database Management System and Relational Database Design.
- To introduce the RIBMS software and utility of query language.
- 4 To introduce basic concept of GUI Programming and database connectivity using Vigual Basic.

UNIT-1 : CONCEPT OF D.B.M.S. AND DATA MODELS

- 60 Introduction to DBMS :- Purpose of Data base systems, views of data, Data Modeling Database Languages, Transaction management, Storage Management, Database Administrator and User, Database System Structure:
- & E-R Model : Basic concepts, Constraints, Keys, Mapping Constaint, E-R Diagram, Week and Strong Entity sets, E-R Database Schema, Reduction of an E-R Schema to Table.

UNIT-2. : RELATIONAL DATABASE MANAGEMENT SYSTEM

- W Relational Model: Structure of Relational Database, Relational Algebra, Domain Relational Calculus, Extended Relational- Algebra Operation, Modification of database, Views.
- Relational Database Design : Pitfalls in Relational Database Desing, Decomposition Functional Dependencies, Normalization : INF, 2NF, BONF, 3NF, 4NF,

UNIT-3 : INTRODUCTION TO RDBMS SOFTWARE - ORACLE

- Introduction : Introduction to personal and Enterprises Oracle, Data Types, Commercial Query Language, SQL, SQL*PLUS.
- IDS and DM: Creating Table, Specifying Integrity Constraint, Modifying Existing Dable, Ecopoling Table, Inserting Deleting and Updating Nows in as Table. Where Clause, Operators, CRDER BY, GROUP Function, SQL Function, WORK, Set Operation, SQL Sab Queries. Views : What is Views, Create, Doop and Retrieving data from views.
- d Security : Management of Roles, Changing Password, Granting Roles & Privilege, with drawing privileges.
- H PL/SQL : Block Structure in PL/SQL, Variable and constants, Running PL/SQL in the SQL*PLUS, Data base Access with PL/SQL, Exception Handling, Record Data type in PL/SQL, Triggers in PL/SQL.

UNIT-4 : G.U.I. PROGRAMMING

- W Introduction to Visual Basic : Event Driven Programming, IDE, Introduction to Object, Controlling Objects, Models and Events, Working with Forms, MDI Form Working with standard Controls.
- to Overview of Variables, Declaring, Scope, Arrays, User defined data types, Constants, Working with procedures : Function, Subroutine, and Property.

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Working with Data, Time, Pormat, String, and Math's Function. Controlling Program Execution: Comparison and Logical Operators, If . Then statements, Select Case Statement, Looping Structures, Exiting a loop. Error Trapping and Debugging.

to File Organization : Saving data to file, Sequential and Rankom access file, the desing and coding.

UNIT-5 : V DATA BASE PROGRAMMING IN VB

- @ Introduction :- Concept of DRO, REO, ADO, input validation : field & from level validation. ACC object model : the ACC object Hierarchy, the connection object, the command object, record set object, parameter object, field object, record doject, stream object, Error object, parameter object.
 - Using Bound control to Present ADO data : Using the ADO data control, ADO data control properties, binding simple controls : Data list, data contro, Data Grid, Data Form Wizard : single form wizard, Grid form, mester/Detail form. Privaranning the ADD data control : Poiresh method, Event, Hierarchical flex
 - of Data Environment & Data Report : Creating connection, Using command object in the data Environment, Data Environment option and operation, Birding Forms to the data Environment, ADD Ements in the Data report, Print Preview, Print, Export, Data report in code : Data reports Events, Birding data reports Directly.

REFERENCE BOOKS :

- Data Base System Concept : By Hery F. Korth, Tata McGraw Hill
- Amdamental of Data Base System Concept
- Oracle Complete Reference
- Introduction to COPS & VB
- 5 Database Programming VB 6
- : By Cracle Press
 - By V.K. Jain, Vikas Publishing House

Nawathe & Elmasri (Pearson educations)

: By B.P.B. Publication

PRACTICALS :

- Practicals on Oracle :
 - At least 20 practicals owering the SQL, M/SQL, Triggers, Visus
- Practicals on Visual Basic : At least 20 pracricals on VB that obvering basic and data corporal compensate.

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B. Sc. In maths

- Melvin J. Maron, Numerical Analysis A Practical Approach, Macmillan publishing Co., Inc. New York, 1982.
- M.K. Jain, S.R.K. lyengar, R.K. Jain, Numerical Methods Problems and Solutions, New Age International (P) Ltd., 1996.
- M.K. Jain, S.R.K. Iyengar, R.K. Jain, Numerical Methods for Scientific and Engineering Computation, New Age International (P) Ltd., 1999.
- 13. R.Y. Rubistein, Simulation and the Monte Carlo Methods, John Wiley, 1981.
- 14. D.J. Yakowitz, Computational Probability and Simulation, Addison-Wesley, 1977.

PAPER - III - (OPTIONAL) (IV) PRACTICAL PROGRAMMING IN C AND NUMERICAL ANALYSIS

LIST OF PRACTICAL TO BE CONDUCTED ...

- 1. Write a program in C to find out the largest number of three integer numbers.
- Write a program in C to accept monthly salary from the user, find and display income tax with the help of following rules:

Monthly Salary Income Tax
9000 or more 40% of monthly salary
7500 or more 30% of monthly salary
7499 or less 20% of monthly salary

- 3. Write a program in C that reads a year and determine whether it is a leap year or not.
- 4. Write a program in C to calculate and print the first n terms of fibonacci series using looping statement.
- Write a program in C that reads in a number and single digit. It determines whether the first number contains the digit or not.
- 6. Write a program in C to computes the roots of a quadratic equation using case statement.
- 7. Write a program in C to find out the largest number of four numbers using function.
- 8. Write a program in C to find the sum of all the digits of a given number using recursion.
- 9. Write a program in C to calculate the factorial of a given number using recursion.
- 10. Write a program in C to calculate and print the multiplication of given 2D matrices.
- 11. Write a program in C to check that whether given string palindrome or not.
- 12. Write a Program in C to calculate the sum of series:

$$1 + x + \frac{1}{2!}x^2 + \frac{1}{3!}x^3 + \dots + \frac{1}{n!}x^n$$

- 13. Write a program in C to determine the grade of all students in the class using Structure. Where structure having following members name, age, roll, sub1, sub2, sub3, sub4 and total.
- Write a program in C to copy one string to another using pointer. (Without using standard library functions).
- 15. Write a program in C to store the data of five students permanently in a data file using file handling.

Singh, JS Singh SP and Gupta SR. *Ecology and Environmental Science and Conservation*, S. Chand Publishing, New Delhi

Sharma, PD. Ecology and Environment, Rastogi Publications, Merrut

Hopkins, WG and Huner, PA. Introduction to Plant Physiology, John Wiley and Sons.

Pandey SN and Sinha BK, Plant Physiology, Vikas Publishing, New Delhi

Taiz, L and Zeiger. E. Plant Physiology, 5th edition, Sinauer Associates Inc. M.A, USA

Srivastava, HS Plant Physiology and Biotechnology, Rastogi Publications, Meerut

B.Sc. II (BOTANY)

Practical

- Taxonomy: Detailed description and identification of locally available plants of the families as prescribed in the theory paper.
- Economic Botany: Identification and comment on the plants and plant products belonging to different economic use categories
- 3. Preparation of Herbarium of local wild plants.
- 4. Quantitative vegetation analysis of a grassland ecosystem.
- 5. Anatomical characteristics of hydrophytes and xerophytes.
- 6. Demonstration of root pressure.
- 7. Demonstration of transpiration.
- 8. Demonstration of evolution of O2 in photosynthesis, factors affecting of photosynthesis.
- 9. Comparison of R.Q. of different respiratory substrates.
- 10. Demonstration of fermentation.
- 11. Determination of BOD of a water body.
- 12. Demonstration of mitosis.

B. Sc. Part III 2018-19 Zoology Practical

The practical work in general shall be based on syllabus prescribed in theory. The candidates will be required to show knowledge of the following:

- Estimation of population density, percentage frequency, relative density.
- · Analysis of producers and consumers in grassland.
- · Detection of gram-negative and gram-positive bacteria.
- Blood group detection (A,B,AB,O)
- · R. B. C. and W.B.C count
- · Blood coagulation time
- · Preparation of hematin crystals from blood of rat
- · Observation of Drosophila, wild and mutant.
- Chromatography-Paper or gel.
- · Colorimetric estimation of Protein.
- · Mitosis in onion root tip.
- · Biochemical detection of Carbohydrate, Protein and Lipid.
- · Study of permanent slides of parasites, based on theory paper.
- · Working principles of pH meter, colorimeter, centrifuge and microscope.

Scheme of marks distribution Time: 3:30hrs Hematological Experiment 08 Ecological Experiment: Grassland Ecosystem/ 06 Population Density/Frequency/relative density Bacterial staining 05 Biochemical experiment 06 · Practical based on Instrumentation (Chromatography/ pH meter/microscope/centrifuge. 05 Spotting (5 spots) 10 Viva 05 8. Sessional 05

B.A.I

HOME SCIENCE

ANATOMY PHYSIOLOGY & HYGIENE

M.M.: 50

UNIT-1	Structure & functions of cell general introduction of Tissue and their functions
	skeletal system - Types of bones, classification general structure & functions of
N.	bones. Muscular system - General structure, types and function.

UNIT-2 Circulatory system - General structure of organs and functions, composition of blood & function. Respiratory system - General structure of organs and functions.

UNIT-3 Digestive system - General introduction of Nutrients, Liver and spleen organs of digestion their general structure and function. Excretory system- organs of excretion.

Kidney & skin - structure & function.

UNIT-4 Nervous system - Central nervous system structure and function. Senses and Sensory organs - ear and eye structure & function.

UNIT-5 Hygiene - Personal Hygiene social Hygiene

Environmental and Industrial Hygiene Water - its importance and purification.

Air - its importance and purification.

First aid home nursing - Principles, qualities of nurse, Responsibilities, selection of sick room, care of the patient. Some common accidents and their aid, poision, bleeding, Burns and scalds, fracture sprain, dislocation.

प्रायोगिक

कुल समय 3 घंटे

कुल अंक- 50

अंको का विभाजन

1.	सेशनल	10
2.	प्राथमिक उपचार	10
3.	गृह परिचंर्या	15
4.	शरीर रचना एवं स्वास्थ्य विज्ञान	15

सेशनल : (परीक्षा के समय छात्राएं प्रायोगिक नेट बुक एवं प्राथमिक उपचार पेटी जमा करें)।

प्रयोग क्रमांक-। रिपाट: कालेज की कक्षाओं का प्रतिदिन की सफाई एवं वायुविजन संबंधित निरीक्षण।

प्रयोग क्रमाक-2 स्वयं के परिवार में पीने के पानी के प्रप्ति के साधन, संग्रह के प्रकार एवं साधन पानी की शुद्ध एवं स्वच्छता के लिये प्रयुक्त विधि।

प्रयोग क्रमांक-3 रिपोर्ट : स्वयं के परिवार एवं अन्य दो पड़ोसी परिवार के घर में अगस्त से दिसम्बर (अनुमानतः पांच महीने) के दौरान हुई बीमारियों के संबंध में जानकारी।

- 1. रोग का नाम।
- 2. प्राथमिक उपचार जो दिया गया I
- 3. आहार (जो उपयोग में लाया गया)।

B.A.-Part-I

(51)

प्रयोग क्रमांक-4 प्राथमिक उपचार पेटी (आवश्यक सामान)

- 1. घाव धोने एवं बांधने का सामान।
- 2. दर्द कम करने की दवाईयाँ।
- 3. अपाचन में प्रयुक्त दवाईयाँ।

प्राथमिक उपचार पेटी छात्राएँ परीक्षा के समय अपना नाम एवं परिवार के सदस्यों की संख्या लिखकर प्रस्तुत करें।

प्रयोग क्रमांक-5

रोगी के लिये उपचारात्मक व्यंजनों का अध्यापक द्वारा करके बताना।

- 1. सब्जियों का सूप।
- 2. दाल का सूप।
- 3. उबला अंडा।
- फटे दुध का पानी (व्हे वाटर) ।
- सब्जी एवं फलों का स्टू (Vegetable and fruit stew).
 इन व्यंजनों की विधि एवं उपयोगिता नोट बुक में अंकित की जावेगी।

प्रयोग क्रमांक-6

प्राथमिक उपचार 1. विभिन्न प्रकार की पट्टियाँ (तिकोनी, गोल)।

- 2. घाव की देखभाल।
- 3. कृत्रिम श्वसन ।

प्रयोग क्रमांक-7

गृह परिचर्चा

- 1. शरीर के तापमान का चार्ट
- गरम एवं ठंडे पानी की थैली तैयार करना ।
- 3. बिस्तर लगाना / चद्दर बदलना ।

प्रयोग क्रमांक-8

दुष्य श्रव्य यंत्र का बनाना ।

महत्वपूर्ण निदेश-

प्रयोग क्रमांक 1, 2, 3, तथा 5 की रिपोर्ट छात्राओं द्वारा प्रायोगिक नोट बुक में लिखकर एवं अध्यापक द्वारा प्रति हस्ताक्षरित / प्रमाणित करवाकर परीक्षा के समय प्रस्तुत की जावेगी।

HOME SCIENCE

Paper - II

HOME SCIENCE - EXTENSION EDUCATION

UNIT-1 Introduction of Home Science Extension Education :

- (A) Home Scince Concepts, goals and Areas of Home Science & their inter relationship with extension.
- (b) Principles and methods of home science extension education general concepts of extension work.
- (c) Objectives of extension educatuoin qualities of extension workers, extension education process.

UNIT-2 Community Development problems and Role of Home Scientists :

B.A.-Part-I

चयापचयी रोग

- मधुमेहपरिभाषा, लक्षण, कारण, इन्स्युलिन के प्रकार, आहार का प्रभाव,
 हाइपोग्लो मेक्किक दवाईयाँ, मधुमेह में असामान्य स्थितियाँ, मधुमेह व गर्भावस्था,
 मधुमेह व बाल्यावस्था।
- अधिक वजन/ कम वजन-परिभाषा, कारण, उपचारात्मक तरीके, असामान्य स्थितियाँ,

पाँष्टिक तत्वों की कमी से होने वाले रोग -

- रक्तहीनता- प्रकार, कारण, पहचान, आहार।
- 2. ए-विहामीनोसिस- प्रकार, कारण, उपचार।
- प्रोटीन कैलोरी कुपोषण कारण, उपचारात्मक तरीके ।

रोग जिसमें आहारीय चिकित्सा सम्मिलित है -

- यकृत के रोग प्रकार, कारण, आहार (पौष्टिक तत्वों की आवश्यकता)
 अमाशय के रोग-
 - पेप्टीक अल्सर कारण, लक्षण, आहार (पौष्टिक तत्वों की आवश्यकता)
 - अपचन- कारण, पौष्टिक तत्वों की आवश्यकता।
 - अतिसार प्रकार, कारण, आहार ।
 - कब्ज प्रकार, कारण, आहार।
 - उक्त स्क्तचाप कारण आहार ।

बी.ए. तृतीय वर्ष

गृह विज्ञान प्रायोगिक

प्रश्न पत्र -

0

कुल अंक 50

- अनाज, दातें, अण्डा, दूध, मेवे, सब्जियां, फलों के उपयोग द्वारा तैयार करना, हर भोज्य पदार्थ की कोई भी तीन पाव विधियों के प्रायोगिक रिकार्ड । बुक में लिखना कैलोरी एवं प्रोटीन की गणना ।
- आहार आयोजन एवं कैलोरी प्रोटीन की गणना अ- गर्भवती महिला, ब- कब्ज की स्थिति स- मधुमेह रोग द अधिक वजन की स्थिति
- विभिन्न आर्थिक स्थिति में आहार योजना।
- खाद्य संरक्षण कोई भी चार पाक विधि बनायी जाये।

बी.ए. तृतीय वर्ष पाठ्यक्रम

- 5. सम्पूरक भोजन आयोजन, गणना।
- 6. व्यक्तित्व मापन विधि।
- 7. बुद्धिमान विधि

प्रायोगिक परीक्षा अंकों व	का विभाजन -	कुल अंक - पचास
सेशनल	10	
योजना	10	
ं तैयारी	10	
गणना	10	
, मौखिक प्रश्न	10	
कुल अंक	50	

List of Text / References Books

Normal & Therepentic Nutrtion.

- 1. C.H. Robinson
- Normal & Therapetic Nutrition.
- 2. F.P. Antia
- Clinice Nutrition & Dicterics.
- 3. M. Swaminathon
- Essentials of Nutrition Vol. I & II.
- 4. P.Rajalaxmi
- Applied Nutrition.
- 5. C. Gopalan-etl ICHR.1991 The Nutrition value of Indian Foods. .
- 6. Mangde Kongo
- Normal & Therapentic Nutrition(In Hindi).
- 7. Jyoti Kulkarni
- Normal Therapentic Nutition.
- Geeta pushpa Sha -
- 9. Kreuse M.N.
- Food Nutrition & Diet Therepy.

B.Sc. (HOME -SCIENCE) PART -II

Group -III

Paper - A

HUMAN PHYSIOLOGY & COMMUNITY NUTRITION

M. Marks: 50

THEORY

Unit - I	An introduction	of Physiology	and Anatomy
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- Cell Structure and functions of human cell. 1.
- Tissues Classification and structure 2.
- 3. Cardiovascular System -
 - Blood Composition & Functions (a)
 - Heart Structure and Functions (b)
 - Vessles Structure and Functions of Artery, Veins and (c) Capillaries.

Gastrointestional System: Unit - II

- Structure and Functions of various organs of the gastrointestinal tract.
- Digestion and absorption of food.

Nervous System:

- (a) Elementary Anatomy of Nervous System
- (b) Functions of different part of the brain and spinal card.
- (c) Autonomic, sympathenic & parasympathetic nervous system.

Unit - III Excretory System:

- Structure and functions of kidney, bladder, formation of urine.
- 2. Structure and functions of spin.
- Regulation of temperature of the body. 3.

Respiratory System:

- Structure of Lungs.
- Mechanism of respiration and its regulation. 2.
- Transportation of Gases

Special Sense Organs:

Structure and functions of eye, Ear, Nose, Skin & tongue.

Unit - IV Musculo Skeletal System

- Types of Muscles and its functions.
- Skeletal System Types of Bones.

Reproductive System -

Structure and functions of male & female reproductive organs.

Concept and Scope of Community Nutrition: Unit - V

- Nutritional problems of the community & implications for public health. Common Problems in India - Causes (Nutritional and Non Nutritional Problems) Incidence of Nutritional problems, sigh, symptoms & Treatment. Protein-Energy Malnutrition (PEM)
- Prophylaxis Programmes to Combat Nutritional Problems in India.

Sant Gahira Guru Vishwavidyalaya Surguja, Ambikapur (C.G.)

- 3. Food born disease-
 - Food Poisoning
 - Food Infections

REFERENCES:

- Guyton, A.C. Hall, J.E. 1996, Text book of Medical Physiology, 9th Ed. Prism Books (Pvt.) Ltd., Bangalore.
- 2. Winwood 1988: Sear's Anatomy and Physiology for nurses, London, Edward Arnold.
- Wilson 1989 : Anatomy and Physiology in Health and Illness, Edinburgh, Churchill Livingstone.
- 4. Chatterjee Chandi Charan 1988: Text book of Medical physiology, London, W.B.
- Saunder's Co. Verma, V. 1986: A text book of Practical Botany, Vc;. I to IV, Rastogy Publication.
- Anderson, D.B. and Mayer, B.S. 1970: Plant physilogy, Van Nostrand Reinhold Company', East West Press Edition.
- 7. Kochhar, P.L. 1994: A text book of plant physiology, Atma Ram & Sons, Delhi..
- 8. Dhami, P.S. 1987: A text book of Zoology, S. Nagin & Company, Julundhar.
- K.S. Gopalaswamy iyengar 1991: Complete Gardening in India, Bangalore, Gapalaswamy Parthasarthy.
- 10. Kochar, S.L. 1981: Economic. Botany in tropics, Macmillan, India.
- Hartmann, H. and Kester, D.E. 1993: Plant Propagation principles and Practice, New Delhi, Prentice Hall of India (Pvt.) Ltd.

Group-HI, Practical-A

- Recording pulse rate.
- 2. Measurement of Blood Pressure.
- Preparation of temperature chart.
- Study of Histological slides of different organs.
- Visit to one Anaganwadi centre and record the activities conducted by Anaganwadi.
- Testing of adulterants in common foods (any five).
- Making report of midday meal programme running at nearby school.

B.Sc. (HOME-SCIENCE) PART- II Group –III Paper - B COMMUNICATION PROCESS

M. Marks: 50

Focus:

The course focuses on the process of communication, especially in development work in rural and urban areas.

Objectives: To enable students to -

- Understand the process .of communication in development work;
- 2. Develop skirls in the use of methods and media; and
- Be sensitive to the interests and needs of the people and the power of the media and methods.in catering to these needs and interests.

THEORY

UNIT-I Concept of development communication

- Meaning and importance of communication in development
- The purpose of communication
- Existing patterns of communication
- Factors that help or hinder communication

UNIT-II Communication Precess

- One-way and two-way or interactive communication
- Gaps in communication or distortions in transmission of message and their causes
- Importance of two way communication
- Basis for effective, interactice communication.
- Attitude of 'respect for others

UNIT-III Methods of communication in Development Methods to reach individuals

- Personal conference
- Interviews
- House visits
- Exhibits
- Methods to reach small groups
- Illustrated lecture
- Group discussions
- Co-operation

UNIT-IV Role Plays

- Demonstrations
- Workshop
- Camps
- Radio announcements/programs
- Newspaper stories
- Posters
- Videos, films
- Television programmes
- Letters, folders or pamphlets
- Public meetings

UNIT-V Media for development communication

- Folk media Songs Stories Street-theatre
- Games Arts
- Puppet play Print media
- Posters Pamphlets, leaflets
- Newspapers articles, stories
- Periodicals articles, stories, songs
- Books
- Cartoons
- Audio/Visuals, Audio-Visual Media
- Audio-tapes, radio broadcasts
- Slides, pictures, drawings, photographs etc.
- Videos, telecasts
- Films-docummentary, feature

Group-III, Practical-B

(ANY SIX)

- Organising group discussion.
- Organising group demonstration.
- Preparation & Presentation of Audio visual aids, i.e. Posters, Charts, Cartoons, Models Puppets.
- 4. Problem/need identification "of a community.
- Planning an educational programme.
- 6. Evaluation of the effectiveness of methods and media.
- Visit to Radio Station/T.V. Centre/Printing Press.
- 8. Preparation of Drama based on Social Development

B.Sc. (Home Science) PART-1 Group – II Paper –A BASIC NUTRITION

M.M.50

OBJECTIVE:

- This course will enable the student to understand the functions of food and the role of various nutrients, their requirements and the effects of deficiency and excess (in brief).
- · Learn about the structure, composition, nutritional contribution and selection of different foodstuffs,
- Be familiar with the different methods of cooking, their advantages and disadvantages,
 Develop an ability to improve the nutritional-quality of food.

THEORY

UNIT-I

Concept of Nutrition - Food, Nutrition, Under and Over Nutrition, Health

- 1. Functions of Food
- Basic Terminology (Blanching, Marination, in cookery- Caramalization, Seasoning)
- 3. Methods of Cooking

UNIT-II Nutrients: Macro nutrients

Classification, sources, functions

Recommended Dietary-Allowances

Deficiency and excess (in brief)

Water

Carbohydrates

Fats

Protein

Fiber

UNIT-III Nutrients: Micro nutrients

Calcium

Iron

Magnesium

Zinc

Fluorine

Iodine, Selenium, Copper, Manganese

Fat-soluble vitamins (A,D,E,K)

Water soluble Vitamins (Thiamine, Riboflavin, Niacin, Vitamin C, Folic Acid ,Pyridoxine,

Pantothenic acid and vitamin B12)

UNIT-IV Food, Structure Composition Classification and Functions.

- Cereals, Millets and their products
- · Pulses, Legumes and their products
- · Fruits and Vegetables
- · Milk and Milk Products
- · Nuts and oil Seeds
- · Meat, Fish, Poultry and Eggs
- · Tea, Coffee, Cocoa, Chocolate and other beverages
- · Condiments and spices.

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Surguja, Ambikapur (C.G.)

UNIT-V Improving Nutritional quality of Foods:

- Germination
- Fermentation
- Substitution
- · Fortification and Enrichments

REFERENCES:

Robinson, C.H., Lawler, M.R. Chenoweth, W.L and Garwick' A.E. (1986): Normal and therapeutic Nutrition, 17th Ed., Macmillan Publishing Co.

Swaminathan, M.S. (1985): Essentials of Food and Nutrition VI: Fundamentals Aspects VII: Applied Aspects.

Hughes, O.Behnion, M. (1970): Introductory Foods, 5th Edn., MacMillan Company. Williams, S.R. (198-9) -. Nutrition and Diet Therapy, 4th Edn., C.V. Mosby Co.

PRACTICAL

OBJECTIVES:

To acqure skills in food preparation techniques.

To use appropriate methods of cooking for preparation of specific food products.

I

- Weights and Measures standard and household measures for raw and cooked food.
- Preparation of two recipes using cooking methods Boiling, Steaming, Baking, Roasting, Frying and Grill

II Vegetables

- Simple salads and sprouting
- b. Curries

III Fruits

Fruit preparations using fresh and dried fruits.

IV Milk

- a. Porridges
- b. Curds, paneer and their commonly made preparation.
- Milk based simple desserts and puddings custards, kheer, ice-cream

V Soups

Basic, clear and cream soups

VI Peanut chikki, Paushitik ladoo

REFERENCES:

 Robinson, C.H., Lawler, M.R., Chenoweth, W.L. and Garwick A.E. (.1986): Normal and Therapeutic 'Nutrition, 17th Ed., Macmillan Publishing Co.

B.Sc. (HOME SCIENCE) PART- I

Group - II Paper-B

INTRODUCTION TO RESOURCE MANAGEMENT

M.M.50

FOCUS:

This course deals with the management of resources in-the family with particular reference to mobilising all the resources for achieving the family goals. It also deals with the factors motivating management and management applied to specific resources. The course intends to create awareness, appreciation and understanding of environment. The major environmental issues and problems are to be critically analysed for inculcating environmental consciousness among the learners and to help them take individual/ household/community level decision for making the physical environment condcive for . family living. The course content has to be taught at an elementary level.

OBJECTIVES:

- To create an awareness among the students about, management in the family as well as the other 1.
- To recognize the importance' of wise use of resources in order to achieve goals. 2.
- The physical environment and its components and the major issues. 3.
- The impact of human, activities on environment 4.
- The action needed for checking environmental threats 5.

THEORY

Unit - I

- Introduction to Resource Management Definitions
- Types of Management 2-
- Advantages of Management Limitation in Management 3-

Factors Motivating Management Unit - II

- 1- Goals Definition, Types and Utility
- 2- values Importance, Sources, Classification, Characteristics, Changing values.
- 3- Standards Conventional and non conventional qualitative, quantitative, conventional and non conventional.
- 4- Relation between values, goods and standard

(1) Resource Unit - III

- Types of Resources (a)
- Characteristics of Resource (b)
- Factors affecting use of Resources (c)
- Relation to Resources to Management (d)

(2) Decision Making –

- Definitions and Importance (a)
- Steps of Decision (b)
- Factors affecting decision (c)
- Resolving conflicts. (d)

Management Process -Unit - IV

Surguja, Ambikapur (C.G.)

B.Sc. (HOME SCIENCE) PART- I

Group – III Paper- A

INTRODUCTION TO HUMAN DEVELOPMENT

M.M.50

FOCUS:

This is an attempt to guide undergraduate students in understanding of the field of Human Development in a basic way.

A Concious deviation is taken from the stage-wise approach to, the life span so as to make the course more meaningful and to allow for flexibility in understanding human development, as a continuous process. All topics are given a cross-cultural orientation. The major topics covered are: An overview of the field; factors important for growth and development; different dimensions of development across the life-span namely, physical and motor, cognition, language, socio-emotional and personality and finally relevant issues in human development and social change.

Techers are encouraged to use the points of emphasis mentioned and culturally relevant examples to stimulate throught and participatroy discussion. The use of Video-films is also recommended to suppliement course content and facilitate discussions. This course purports to create awareness and appreciation for the role and functions of marriage and family as basic institutions. The changing trends, the dynamics of adjustment and contemporary problems and issues are to be critically analysed for developing better understanding of needs, adjustment areas and intervention strategies.

OBJECTIVES:

The student will -

- Acquire knowledge and insights about the dynamics of contemporary marriage and family systems in India.
- Become acquainted with the concept, goals and areas of adjustment, relationship within the family.
- Become aware of her changing roles and relationships with the family.
- Understand the dynamics of families in distress and crisis.
- 5. To introduce student to the field of human development-concept, dimensions and interrelations
- To sensitize students to social and cross-culture contexts in human development.
- To sensitize students to interventions in the field of human development

THEORY

Unit -I An overview on the field of HD

- i what is human development? Why do we need to studyit? defenition of development, ie. family and society, variations across cultures and individual differences in Human development.
- ii family and child welfare ;a. family welfare programme, b. childwelfare programme,
- iii Growth and Development
 - a. Understanding growth and development (Definitions)
 - b. General Principles of development.
 - Constraints and facilitators in growth and development (influences of heredity and environment)

PRACTICAL

Production to Human Development and Family Dynamics

- Visit to a pediatric ward to observe a new born body and a premature baby.
- Preparing a growth average height weight chart of five (5) children from one to (1-3) years.

Study of immunization schedule.

Survey of parent's regulative awareness about weaning food, toys; clothes.

Preparation of body Kit- Baby carry bag, bib, Jhabla.

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B.Sc. (HOME-SCIENCE) PART- II Group -IV Paper - A

LIFE SPON DEVELOPMENT

M. Marks: 50

Focus:

This course covers the entire life span and traces the various developmental stages. Its encompasses in scope development in utero, infancy up to senesence identifying critical concerns in Socio-cultural

To develop understanding of various methods and materials, which can be used-while working with children. The emphasis is on promoting creativity and use of different materials to allow for optimum development.

Objectives:

To become acquainted with developmental stages from birth to old age.

- To develop awareness of important aspects of development during the whole life span.
- To know the reqDon Welers (1974): uirement of infants and fodders and develop skills to 2. create play materials and designing learning experiences.
- To understand the significance of various creative activities and teachers role in 3. implementry them.

Note: For each of the following stages of development, the-influence and inter-actions of sociocultural and environmental factors needs to be discussed.

THEORY

UNIT-I

- Life Span development and need to study development through the life cycle. Inter-1. relationship between the aspects of development.
- Childhood period (2 to 12 years) Definition, Characteristics and Developmental tasks. 2. "Review (2-6 yrs to 6-12 yrs) of different developmental areas (Physical, motor, Social, emotional, intellectual.

UNIT-II

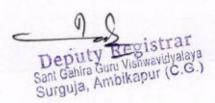
Adolescence (13 to 18 years)

- Definition, Developmental tasks. 1.
- Physical Development Puberty, growth, spurts, Primary and Secondary sex 2. characteristics, early and late maturing adolescents.
- Identity Definition, body image, positive and negative outcomes (Role confusion, 3. ego-identity)
- Heightened emotionality- Meaning causes, expression characteristics of emotional 4. maturity, conflict with, authority coping up strategies.
- Problems Drug and alcohol abuse, psychological breakdown (Behaviour) STD and 5. AIDS.

UNIT-III

Adulthood (19 to 60 years) and ageing- (Early adulthood 19 to 40 years) Definition and characteristics Development tasks, significance of the period, reponsibilities and adjustment -New family, parenthood, independence, financial matters.

- Middle Adulthood (41 to 60' years), Definition, physical changes (senses, diseases-1. Transitation Period.
- Menopause- Health issues. 2.



Other materials

- Sand
 - (a) Characteristics of the medium.
 - (b) Values, materials required and teacher's role.
- Water.
 - (a) Characteristics of the medium.
 - (b) Values, materials required and teacher's role.

Group-IV, Practical-A (ANY TEN)

1. Infancy and Toddlerhood

- A file to be prepared to list activities appropriate for age groups 0-6 months, 7-12 months, 13 to 20 months and 25 to 36 months.
- Students be encouraged to observe materials available in the locality, Different types of shops, tailor.
- Develop play materials suitable for each age group.
- List activities, which can be used for working with different age groups.
- (a) 0 to 6 months.
- Prepare materials and design activities for seeing, hearing touching and feeling.
- Sensation and movement for soothing movements and exercises.
- (b) 7 to 12 months.
- Prepare materials and design activities for touching and feeling sensation and movement, and manipulation.
- (c) 13 to 14 months.
- Identify activities for gross motor development and prepare play materials available in the locality.
- Prepare play materials and list activities promote manipulation sensory experiences, concepts and language.
 Art Activity
- 10. Visit to old age homes.

Art Activities

- 11. A few suggestions are given under each category as guideline students be encouraged to explore experiment with each media and understand the characteristics of each medium.
 - Samples of each be included in the resource file which each student is expected to maintain along with description of values materials and technique used.
- Difficulty level of each activity be considered and decide its suitability for different age groups.
 - Painting and graphics
 - Prepare a variety of brushes from different types of brooms, cotton, wool, strips of cloth, feather etc

Tearing cutting and pasting

- 13. 3-5 years
 - Tearing with all fingers, tearing with thump and two fingers as used in holding pencil, tearing on straight line, curved line.
- 14. 6-8 years
 - Tearing circular rings starting from one corner of the page till centre of page, Making designs.
- 15. 3-5 cutting and pasting
 - Cutting a design, pasting, please of paper, cloth, sticks leaves college, mosaic Printing

Printing

- Printing with strings, leaf, vegetable blocks, stencil printing, thumb," finger, spray painting
- 17. Keeping coins, leaves with veins below paper and gently colouring with crayon.

B.Sc. (HOME-SCIENCE) PART- II

Group -IV Paper - B

Consumer Economics

THEORY

M. Marks: 50

Unit - I Consumer

- 1- Definition of consumer
- Consumer rights and responsibility
- 3- Consumer buying habits convenience goods
- 4- Factors affecting consumer decision

Unit - II Personal income

- (1) Types of income real, money, psychic, national income, disposable income.
- (2) Saving and investment
- (3) Sources of investment
- (4) Factors affecting savings
- (5) Ways of selecting investment

Unit - III Consumer in the market

- (1) Market- Definition, types of market, functions, channels of distribution.
- Buying motives Primary selective, rational emotional and totranages.
 Types of Products

Advertisement, Sales, Promotion packing

- (3) Consumer Buying Problems
 - (1) Adulteration- kinds and identification of adulteration.
 - (2) Faculty weights and measure
 - (3) Pricing
 - (4) Legal guarantee and warrantee contracts, installment buying
- (4) Buying process

Unit – IV Consumer Protection services

- (1) Organisations
- (2) Legislation import laws for consumer protection
- (3) Consumer representation

Consumer and consumers problems- choice and buying problems of consumer

- (4) Consumer protective services
 - (1) Indian Standard Institution
 - (2) Educational Institution
 - (3) Consumer Co-operatives
 - (4) Government Agencies Municipality

Unit - V

- (1) Consumer Decision making
- (2) Factors effecting consumer decision in the market
- (3) Good buy man ship
- (4) Consumer aides for decision making

Group-IV, Practical- B

- 1- Test for adulteration
- 2- Filling of different types of form to protect consumer
- 3- Filling of form of investment services
- 4- Activity of educate consumer
- 5- Collection of samples of different symbols for helping consumer buying .
- 6- Project preparation in any relevant area.

B.Sc. (HOME-SCIENCE) PART-III

Group –II Paper - A

NUTRITIONAL BIOCHEMISTRY

M. Marks: 50

THEORY

UNIT-I

(A) Introduction to Biochemistry - definition, objectives, scope and interrelationship between Biochemistry and other biological sciences.

(B) Carbohydrates - Definition, classifications functions and properties of

- Monosaccharides - Glucose, Fructose, Galactose

Disaccharides - Maltose, Lactose, Sucrose

- Polysaccharides - Dextrin, Starch, Glycogen

Glycolysis, Gluconeogenesis, Glycogenesis

Glycogenolysis, Citric acid Cycle.

Blood sugar regulation.

UNIT-II

(A) Lipids - Definition, composition, importance and classification

Fatty acids - Functions, properties ,classification of MUFA and PUFA.
Significance of Acid value, Iodine value and saponification value.
Chemistry and function of Phospholipids, Glycolipids and sterols.

Metabolism - Beta Oxidation

(B) Aspects of transport - Passive diffusion, Facilitated diffusion, Active transport

UNIT-III

(A) Proteins - Definition composition function, and classification.

Amino acids - Essential and Nonessential

Metabolism - Urea cycle, Nitrogen balance, Amino acid pool

 (B) Enzymes - Definition, properties, classification, Mode of action of enzymes, factors affecting velocity of enzyme catalyzed reactions, coenzymes.

UNIT- IV

 (A) Harmones - Biological roles of harmones of Pituitary, Adreral cortex and medull, Thyroid, Parathyroid, Pancreas, Sex glands.

(B) Urine - Formation and Composition

UNIT-V

(A) Blood – Blood composition & its Function, Blood Coagulation, Blood Groups

(B) Nucleic Acid and Nucleoproteins - Chemistry, composition, structure, functions

Practical

Nutritional biochemistry

- Identification of Glucose, Fructose, Maltose, Lactose, Sucrose, Starch.
- Colour and precipitation reactions of Protein.
- Estimation of Glueose by Benedict's method.
- Estimation of Haemoglobin by acid hanmotion method.
- 5. Estimation of Glycine by Titration.
- Estimation of ascorbic acid by idometric method.
- Visit to pathological lab (compulsory) to study the
 - · Method of collection of sample
 - · Application of latest techniques
 - · Processing of sample
 - · Use of reference values of blood and urine

B.Sc. (HOME-SCIENCE) PART -III

Group -II Paper - B

FOOD PRESERVATION

M. Marks: 50

THEORY

UNIT- I

Food and it's preservation.

Home and community level including commercial operations.

Principles of food Preservation

Causes of spoilage of food.

Unit - II

- · Food Storage Principles and Methods
- · Fresh Foods Fruits & Vegetables
- Dried Foods Rice, Wheat & Pulses

Canning of Foods

- · Definition and Principles of Canning
- · Nutritive value of Canned Foods

UNIT-III

Pasteurisation

Effect on food quality. Storage of pasteurised food.

Drying & Dehydration

Methods used and effect on food quality. Types of driers. Storage and deterioration of dehydrated food products.

UNIT-IV

Use of low temperature

Refrigeration and freezing methods, principles and applications. Preparation of foods for freezing influence on food components and structure. Self life of frozen foods

Pickling and Fermentation

Pickles, chutneys, ketchups sauces. Fermentation - Types, products and method use Establishment of a small scale industry / cottage industry.

UNIT-V

Chemical Preservatives

Preparation of Fruit, Juices, Squashes, Fruite Syrups, Cordials, Jam Jelly.

High Acid & High Sugar Products -

common defects, Preservation of crystalized and glazed fruits.

Nutritional Implications of food processing

Causes for loss of vitamins and minerals, Enrichment, Restoration and Fortification

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Practical

- Preparation of Jam, Jellies marmalades.
- Preparation of Pickles & chutneys.
- Dehydration of Vegetables & Fruits.
- 4. Preparation of Papad, Badi, Chips
- Preparation of synthetic syrups & squashes.
- 6. Survey of market products and packaging

B.Sc. (HOME-SCIENCE) PART- III

Group –III Paper - A EARLY CHILDHOOD EDUCATION

M. Marks: 50

FOCUS-

The course focuses on need to provide various early childhood care and educational facilities through different programmes, for early childhood eduction. Types and present status of ECCE programmes are covered in this course. The recent policies affectionary young children are also included.

The course introduces students to the concept of curriculum for all round development of children. The main emphasis is on various components of curriculum to be included in daily program through medium of play. Method of learning by doing which forms the basis for understanding and knowledge is extended to the first two years of primary school.

OBJECTIVES:-

- To know importance of early childhood care and significance of intervention programmes for early child development.
- To understand major theoretical approaches and implication for early child development.
- 3. To become acquainted with current policies and programs in ECCE.
- To meaning of curriculum and various components to be included in the daily programmes to promote all round development of children.
- To recognize role of play in children's development.
- To understand goals, principles, factors and approaches used in programme planning.
- To recognize the advantages of project method and learn to use integrated approach in the development of daily programme.

THEORY

UNIT-I

Significance and objectives of early childhood care and education.

- Significance of early childhood years in individuals development.
- Meaning and need for intervention programmes for better growth and development.
- Objectives of ECCE.
- Different types of programs currently offered. Objectives of the program routine and target group covered by each of the following. ECE programme - Balwadi, anganwadi, Nursery school, Kindergarten, Montessori, laboratory nursery school ECCE Program -ICDS and mobile cretch. Play group: day care.

UNIT-II

Current Status and Expansion of Scope of ECE to ECCE

- Expansion from ECE to ECCE.
- Current Status of ECCE programme.
- Admission tests and effects on children.
- · Effects of pressures on young children due to formal education.
- Need for ECCE programmes to provide quality care where mothers are at work.
- Global perspective views of educationists Froebel, Mac Millan sister, Deweu and Montessori,
- ECE in India: Overview of pre.and post independence period.
- Contributions of Ravindranath Tagore, Mohandas Gandhi, Gijubhai Bodheka, Tarabai Modak, Anutai Wagh.

Recent Developments: Policies, Institutions and contributions of NGOs

National policy on children.

Evaluation

- Need for evaluation.
- Formative and summative evaluation.
- Methods of evaluation : Observations.
- Evaluation of daly work, tools for evaluation
- Reporting to parents.

Practical (any four)

- Plan three activities for children: list objectives, analyst tasks to achieve goals, select and organize instructional and learning materials, teacher's role, preparation of evaluation sheets i.e. chick list, rating scale.
- 2. Prewriting activities.
- 3. (a) Mathematics
 - (b) Readiness
 - (c) Materials for classifying, comparing, seriations, patterning, counting shapes, fractions, list vovabulary related to mathematical concepts.
 - (d) Material for addition, subtraction, multiplication and divisions.
 - (e) Graphs.
 - (f) Experiences for understanding time distance weight, capacity and money.
- Prepare a lesson for early childhood education.
- Plan a project based on lessons of first and second standard, plan activities which children can do at home.
- Visit to nursery school (compulsory).

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B.Sc. (HOME-SCIENCE) PART III

Group -III Paper - B

EXTENSION EDUCATION

THEORY

M. Marks: 50

UNIT-I

- 1. Concept of Education
 - (a) Meaning of Extension
 - Origin of Extension (b)
- 2. Extension Education Process
 - (a) Environment for learning
 - (b) Role of educator
 - Role of the people participants (c)
- Home science extension and community development 3.

UNIT-II

- 4. Concept of adult / non formal education
 - Meaning (a)
 - Purpose (b)
- 5. Five Year Plans
 - History of planning in India. (a)
 - Five year plans and their focus. (b)
- Planning at different levels- National to Grass roots. 6.

UNIT-III

- 7. Programmes to enhance food production
 - national food production programmes.
- Poverty alleviation efforts and food security 8.
 - Programmes for poverty alleviation for rural and urban areas. (a)
 - Current programmes for rural and urban poor (b)

UNIT-IV

- Programmes for women and childrenWomen as target groups specific measures for women and children such as DWCRA, ICDS, IMY. Current programmes for women as initiated and implemented by the different ministeries and departments.
- PMKVY (Pradhan Mantri Kaushal Vikas Yojana). 10

11 Role of NGOs

Need for participation of Non-Governmental organizations in developmental efforts. Encouragement given NGO's.

UNIT-V

Advertising Media

- 12. Different media for advertising.
- 13. Methods of Extension Education
- 14. Non-media advertising
- Outdoor advertisement Hoardings, Posters, Billboards, Bulletin Boards, Electronic sings, Letterbins, Aerial methods.
- 16. Transportation media (Mobile Vehicles)
- 17. Exhibition and Trade fair.

Practical

- Visits to Radio / T.V. stations.
- Script writing for Radio.
- Visit to Extension Education Unit.
- Write slogan about Adult-Education.
- 5. Designing an Advertisement for any product with relevant slogan at least two.
- 6. Study of programme for women as target group and children.

B.Sc. (HOME-SCIENCE) PART -III

Group -IV Paper - A

Foundation of Art and Design

M. Marks: 50

THEORY

Unit - I Introduction to foundation of art

- 1. Design, Definition and types: Structural and Decorative
- 2. Elements of Design :-
 - 1. Line

Size

3. Form

4. Structure

5. Space

6. Pattern

- Shape
- 8. Light Characteristics and Classifications
- 9. Study of Colour Classifications, Dimensions, Colour Schemes and effect.
- Principles of design definition and their characteristics and types :-
 - 1. Balance

2. Harmony

3. Scale

4. Proporation

5. Rhythm

6. Emphasis

Unit - II 1. Indian, regional, traditional and contemporary arts and their use in :-

- 1. Floor decoration
- Home decoration
- Accessories

2. Appreciation of art

- 1. In terms of principles of art and design
- 2. In terms of composition and aesthetic appeal
- 3. Flower arrangement material and principles.

Unit – III 1. Family's Housing Needs

- Protective, economic, affectional, social, standard of living, housing goals, style, function occupation.
- Factors influencing selection and purchase of site to house building
 - 1- Legal aspects, location, physical feature, soil conditions, cost, services
- 3. House planning-
 - 1- Reading house plants
 - 2- Planning principles

Grouping of rooms, orientation, circulation, flexibility, privacy spacious, ness, services, aestheriucs, economy, light and ventilation.

- 3- Planning different rooms: living room, bedrooms, kitchen, store room, toilet, passage, staircase.
- 4- Landscape planning-Principles and application.

B.Sc. (HOME-SCIENCE) PART- III

Group –IV Paper - B

APPAREL MAKING & FASHION DESIGNING

Marks: 50

THEORY

Unit - I

- Anatomy Of Human Body
 - Skeleton & Muscular System
 - Joints Of Human Body
 - 1. Normal Body
 - 2. Abnormal Body
 - Figure Problems & Different Types Of Figure Defects
 - Erect, Stooping, Low Shoulder, Square Shoulder, Thin Waist, Stout Waist, Long Body, Short Body, Full Back, Flat Back, Cylindrical, Corpulent, Head Forward, Head Backward
 - 2. Deformity
- 1. Natural & Accidental
- 3. Principle of Figure Drawing
- 4. Sketching of Different Body Features

Unit - II

- 1. Drawing Of Human Form In Different Angles
 - Front
 - Back
 - Side
- 2. Figure Head Theories
 - 8 ½ (Average Figure)
 - 12 1/2 (Fashion Figure)
- 3. Introduction to Elements of Design
 - · Color / Line
 - Texture
 - Shapes / forms
- 4. Principles of Design
 - · Proportion
 - Balance
 - Harmony
 - · Rhythm
 - · Emphasis
- 5. Different types of Textile design
 - · Structural / Decorative
 - Realistic / Abstract
 - · Stylized / Geometrical

- Kutch & Kathiyawar Of Gujrat
- · Zari Embroidery
- Applique Work
- 3. Entrepreneurship
- Meaning, Definition, Nature & Types
- Qualities of a Successful Entrepreneur
- · Factors Affecting the Development of Entrepreneurship
- 4. Channels of Distribution : Meaning, Definition, Types & Functions
- Salesmanship: Duties & Main Qualities of Successful Salesmanship, Salesmanship & Advertisement.

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Practical

- 1. Average Figure (8 ½ Head Length)
- Fashion Figure (12 ½ Head Length)
- Sketching of different Body Features & Different Hair Styles
- Preparation of Samples of different types of Necklines
- Preparation of Samples of different types of Collars
- Preparation of Samples of different types of Sleeves
- Preparation of Samples of different types of Yokes
- 8. Preparation of Samples of different tucks and pleats
- Construction of Ladies Garment With Different Patterns
 - · Frock: A line / short body / long body
 - · Petticoat / Blouse,
 - · A-Line Kurti / Fitted Kurti / Flared Kurti
 - Simple Salwar / Salwar With Belt / Patiyala / Churidar
- 10. All samples of traditional embroidery fix in the file
- 11. Draw design with different colour schemes
- 12. Reducing and Enlarging a design
- 13. Draw an objects involving various Elements of design

B.Sc. (HOME SCIENCE) PART-I

Group - III Paper- B TEXTILE AND CLOTHING

M. Marks: 50

FOCUS:

(A)Variety in clothing depends on variety of textiles. Though very few textiles were known to man earlier, presently, he is seeing newer textiles each one superseding to other. Their performance is also varying. It is essential for a student to have some basic knowledge of these textiles to select the right kind of fabric for

(B) Clothing is important for protection, comfort, personality and growth in relevant age groups .the course should dealt with ,keeping in view the activities of concerned age group with consideration for safety, ease of

care and comfort.

OBJECTIVES:

To enable students to-

To acquaint with proper notion regarding choice of fabrics

2. To develop skills in clothing construction

To acquaint with different textiles and their performances

Impart knowledge on different textiles finishes

THEORY

Unit - I

- Introduction of the Subject
- Common Terminologies used in Textile
- 3. Properties of Textile Fibers

Classification of the textile fibres: History, composition, types, production & properties

- Natural Fiber Cotton, Linen, Silk, Wool
- Man-Made Fiber Rayon
- Thermoplastic Fiber Nylon

Unit - II

- 1. Study of Yarn
- Meaning, Yarn Making: Mechanical & Chemical
- Types Simple, Complex, Novelty and Textured yarn
- number, yarn count, Yarn Twist
- 2. Methods of fabric construction
 - Weaving: Handloom and its parts.
 - Different types of weaves- Plain weaves, Floting weaves, Pile, Jaquard and Leno weaves.
- 3. Other methods of fabric construction : Felting, Knitting, Crocheting, Braiding & Lacing

Unit - III

Finishes: Meaning and purpose

- · Physical finishes: Singeing, Napping, Brushing, Shearing, sizing, shrinking, tentaring, Calendaring etc.
- Chemical finishes: Bleaching & mercerizing

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- Special purpose finishes: wrinkle resistance, water resistant & water repellent, Flame retardant, crease resistance, soil resistant etc.
- 2. Identification of Fabric
 - · Appearance test / Microscopic test
 - · Burning test / Creasing test
 - Breaking test / Tearing test & Chemical test
- Importance of Clothing

Unit - IV

- 1. Dyes
 - · Definition and Classification
 - · Different types of dyes: Natural & Synthetic dyes
 - · Suitability of various dyes to different fibres
- 2. Dyeing methods of different stages of processing:
 - · Fiber, yarn, piece, union & cross
- 3. Household method of dyeing
- 4. Colour fastness
 - · Characteristics of colour fastness
 - · Fastness to sunlight ,crocking ,perspiration

Unit - V

- 1. Printing
 - Its significance
 - Methods of printing: Block, Stencil, Screen & Roller printing
 - Advantages and disadvantages of various methods of printing
 - Faults in different printing methods
 - · Preparation of printing paste
 - · Preparation of cloth for printing
 - · After treatment of printed goods
 - Resist dyed Bandhej of Gujrat and Rajasthan

PRACTICAL

- 1. Identification of yarn
- 2. Identification of textile fibres:
 - · Visual test / Microscopic test
 - · Burning test /Chemical test
- 3. weaves and their variations:
 - · Plain weave / Twill weave
 - Satin & Sateen weave
 - Honeycomb & Birdseye weave
- 4. Printing
 - · Block printing / Screen printing / Stencil printing
- 5. Tie & dye

- 6. Simple dyeing of different fabrics7. Finishing of fabric before dyeing & printing
 - Scouring
 - Bleaching
 - Designing
- 8. Bleaching & whitening
- 9. Starching
- 10. Laundering of cotton, silk, wool and synthetic fabric
- 10. Batik

CHEMISTRY

SANT GAHIRA GURU VISHWAVIDYALAYA

Sarguja Ambikapur (C.G.)

CHOICE BASED CREDIT SYSTEM (CBCS) chomists

SYLLABUS

M.Sc. CHEMISTRY

SEMESTER SYSTEM **SESSION 2018-19**



For Affiliated Colleges of SANT GAHIRA GURU VISHWAVIDYALAYA

Ambikapur (C.G.) -497001 Dep Ot Registrar
Sant Gahas Du Vishwaldyalaya

Third Semester Structure Table

S. No.	Subject Code	Course Title	Course Type	Credit	3	Hou Hou		Dura (Hi	tion
-					L	T	P	Thy	P
1.	ABC 301		ccc	6	4	2	0	3	0
2.	ABC 302		ccc	6	4	2	0	3	0
3.	ABC 303		ccc	6	4	2	0	3	0
4.	ABC SO2	FREE PLANT	OSC	6	4	2	0	3	0
5.	ABC A03/B03/ C03/D03/ E03/F03		ECC	6	4	2	0	3	0
				30					

Fourth Semester Structure Table

S. No.	17 1 Charles Control 17 17 17 17 17 17 17 1		Credit	Contact Hours Per week			EoSE Duration (Hrs.)	
				L	Т	P	Thy	P
1.	ABC 401	ccc	6	4	2	0	3	0
2.	ABC 402	ccc	6	4	2	0	3	0
3.	ABC 403	ccc	6	4	2	0	3	0
4.	ABC 421	PRJ/FST/ EST	6	4	2	0	3	0
5.	ABC A04/B04/ C04/D04/ E04/F04	ECC	6	4	2	0	3	0
			30					

M.Sc. CHEMISTRY FIRST SEMESTER

First Semester (CBCS)

					en ta	SECOND.	Eo	77	Ma	rks
Course Code	Course Type	Course (Paper/Subjects)	Cre dits	0.00000	Weel		Dur n (H	-	SE E	IA
				L	T	P	Thy	P		18
MSC 101	ccc	INORGANICCHEMISTRY-1	6	4	3	0	3	0	80	20
MSC 102	ccc	ORGANICCHEMISTRY-1	6	4	3	0	3	0	80	20
MSC 103	ccc	ANALYTICAL CHEMISTRY	6	4	3	0	3	0	80	20
MSC 111	ccc	INORGANIC AND ANALYTICAL CHEMISTRY-1 LAB	6	0	0	9	0	LINES (g)	10	00
MSC S01	osc	RESEARCH METHODOLOGY & COMPUTER APPLICATION: BASICS	6	4	3	0	3	0	80	20
MSC A01	ECC/C B	CONSTITUTIONALISM & INDIAN POLITICAL SYSTEM		Service Services		25	72			2/1
MSC A02	ECC/C B	GROUP THEORY, SPECTROSCOPY AND DIFFRACTION METHODS	6	4	3	0	3	0	80	20
MSC A03	ECC/C B	COMPUTER PROGRAMMING IN CHEMISTRY			300					
MSC A04	ECC/C B	MEDICINAL CHEMISTRY				IN.		124		17
1000 A 2000 (c) 2000 (c)		TS IN INDIVIDUAL SUBJECT IS 6 TE SEMESTER IT WOULD BE 30	To Orec 3	út=						

Second Semester (CRCS)

				1	Cont		10000	SE	Mi	ark
Course Code	Course Type	Common (Days on 12 d. 1 - 1 - 1	Cre		Hours Per WeeK			Duratio n (Hrs.)		1/
				L	Т	P	Thy	P		
MSC 201	ccc	INORGANICCHEMISTRY-2	6	4	3	0	3	0	80	20
MSC 202	ccc	ORGANICCHEMISTRY-2	6	4	3	0	3	0	80	20
MSc 203	ccc	PHYSICALCHEMISTRY	6	4	3	0	3	0	80	20
MSC 211	ccc	ORGANIC AND PHYSICALCHEMISTRYLA B	6	0	0	9	0		10	00
MSC S02	PRI/SS C	SOCIAL OUTREACH AND SKIL DEVELOPMENT	6	4	3	0	3	0	80	20
MSC B01	ECC/C B	ENVIRONMENTAL AND FOREST LAWS					1	1		
MSC B02	ECC/C B	POLYMER CHEMISTRY								
MSC B03	ECC/C B	ORGANIC SYNTHESIS-1	6	4	3	0	3	0	80	20
MSC B04	ECC/C B	APPLIED CHEMISTRY					1	1		
SUB	JECT IS	REDITS IN INDIVIDUAL 6 AND IN COMPLETE ER IT WOULD BE 30	Tota Cred	t=		1		1	1	

M.Sc. CHEMISTRY SECOND SEMESTER COURSE TYPE: CCC COURSE CODE:MSC201

COURSE TITLE :INORGANIC CHEMISTRY-2

HOURS: 90 PRACTICAL: 0 CREDIT: 6 THEORY: 90 PRACTICAL: 0 THEORY: 6 MARKS: PRACTICAL: MARKS: THEORY:

THEORY: 100 (80+20)

OBJECTIVE:

To study about the theories of coordination complexes, Chemistry of lanthanides, to learn about Nanotechnology and use of Inorganic Compounds in Biological Chemistry.

24 Hours UNIT-1 ELECTRONIC SPECTRA AND MAGNETIC PROPERTIES OF

TRANSITION METAL COMPLEXES

Spectroscopic ground states, determinating the ground state term, -Hund rules, correlation, Orgel diagram d1 and d9,d2 and d8 and d5 ions and Tanabe-Sugano diagrams for transition metal complexes(d1 to d9 states), calculation of Dq B and P parameters, charge transfer spectra, spectroscopic method of assignment of absolute configuration in Optically active metal chelates and their stereochemical information, and spin crossover.coupling of orbital angular momenta, coupling of spin angular momenta, spin orbital coupling

UNIT-2

15 Hours

Higher Boranes, Carboranes, Metalloboranes and Metallo carboranes, Metal Carbonyl and halide clusters, compounds with metal metal multiple bonds. ACID AND BASE: Bronsted and Lewis acid and base concept ,HSAB concept and its application, Buffer solutions.

UNIT-3

18 Hours

THE CHEMISTRY OF LANTHANIDES, ACTINIDES AND NANOTECHNOLOGY

lanthanides and actinides: electronic structure oxidation state, colour and spectral, magnetic characteristics, coordination numbers, stereochemistry, lanthanide contraction, separation of the lanthanide

Third Semester (CBCS)

acc acc	APPLICATIONS OF SPECTROSCOPY- INORGANIC OHEMISTR APPLICATIONS OF SPECTROSCOPY- ORGANIC CHEMISTRY PHOTOCHEMISTRY AND PERICYCLIC REACTION	-	6	4	3	0	T	Thy 3	0	80	20
ccc	APPLICATIONS OF SPECTROSCOPY- ORGANIC CHEMISTRY PHOTOCHEMISTRY AND PERICYCLIC REACTION	-	1			0	-	3	0	80	20
œ	APPLICATIONS OF SPECTROSCOPY- ORGANIC CHBMISTRY PHOTOCHEMISTRY AND PERICYCLIC REACTION	-	6	4			-	+			1 44
	PERICYCUIC REACTION	7	6	4	-				1	200	-
	PERICYCLIC REACTION	7		-	3	0	3		0	80	20
m			6	4	3	D	-	+	+	-	
	ORGANIC CHEMISTRY LAB	T	+	+	0	1	3	1	+	80	20
sc	INTELLECTUAL PROPERTY, HUMAN RIGHTS &	1	1	1	1	9	3	0	8	100	1
СВ		-	+	-	+	+	-			1	1
СВ	The second second		1		1	1	1	644		-	
СВ		6	4	3	0	1	,	0	80	20	
В	HETEROCYCLIC						1				
	CB CB CB	FROPERTY, HUMAN RIGHTS & EMMRONMENT: BASICS CB TRIBAL STUDIES CB GREEN CHEMISTRY CB ORGANIC SYNTHESIS II HETEROCYCLIC CHEMISTRY	RIGHTS & EMIRONMENT: BASICS CB TRIBAL STUDIES CB GREEN CHEMISTRY CB CRGANIC SYNTHESIS II HETEROCYCLIC CHEMISTRY	RIGHTS & 6 4 RIGHTS & 6 4 EMMRONMENT: BASICS CB TRIBAL STUDIES CB GREEN CHEMISTRY CB CRGANIC SYNTHESIS II HETEROCYCLIC CHEMISTRY	RIGHTS & 6 4 SEMIRONMENT: BASICS CCB TRIBAL STUDIES CCB GREEN CHEMISTRY CCB ORGANIC SYNTHESIS II CCB CHEMISTRY CCB CHEMISTRY	RIGHTS & 6 4 3 EMIRONMENT: BASICS CCB TRIBAL STUDIES CCB GREEN CHEMISTRY CCB ORGANIC SYNTHESIS II CCB HETEROCYCLIC	RIGHTS & 6 4 3 0 EMIRONMENT: BASICS CCB TRIBAL STUDIES CCB GREEN CHEMISTRY CCB CRGANIC SYNTHESIS II CCB CHEMISTRY CCB CHEMISTRY	INTELLECTUAL PROPERTY, HUMAN RIGHTS & 6 4 3 0 3 EMIRONMENT: BASICS CB TRIBAL STUDIES CB GREEN CHEMISTRY CB ORGANIC SYNTHESIS II HETEROCYCLIC CHEMISTRY	INTELLECTUAL PROPERTY, HUMAN RIGHTS & 6 4 3 0 3 0 EMPRONMENT: BASICS CB TRIBAL STUDIES CB GREEN CHEMISTRY CB ORGANIC SYNTHESIS II HETEROCYCLIC CHEMISTRY	INTELLECTUAL PROPERTY, HUMAN RIGHTS & 6 4 3 0 3 0 8 EMIRONMENT: BASICS CB TRIBAL STUDIES CB GREEN CHEMISTRY CB ORGANIC SYNTHESIS II THE HETEROCYCLIC CHEMISTRY	INTELLECTUAL PROPERTY, HUMAN RIGHTS & 6 4 3 0 3 0 80 2 EMPRONMENT: BASICS CB TRIBAL STUDIES CB GREEN CHEMISTRY CB ORGANIC SYNTHESIS II THETEROCYCLIC CHEMISTRY

M.Sc. CHEMISTRY THIRD SEMESTER COURSE CODE:MSC301 COURSE TYPE: CCC

COURSE TITLE: APPLICATIONS OF SPECTROSCOPY-INORGANIC CHEMISTRY

THEORY: 6 PRACTICAL: 0	HOURS: 90 THEORY: 90 PRACTICAL: 0
MARKS:	MARKS:
THEORY: 100 (80+20)	THEORY: PRACTICAL:

OBJECTIVE: To learn about application of Spectroscopy in various field of In organic Chemistry.

UNIT-1 16 Hours

Applications of Atomic Absorption Spectroscopy, Atomic Emission Spectroscopy, Plasma Emission Spectroscopy, Flame Emission Spectroscopy, photo electron spectroscopy and there application and raman spectroscopy in inorganic chemistry.

UNIT-2 18 Hours

Vibrational Spectroscopy Symmetry and shapes of AB2, AB3, AB4, AB5 and AB6, mode of bonding of ambidentate ligands, ethylenediamine and diketonato complexes, application of resonance Raman spectroscopy particularly for the study of active sites of metalloproteins.

UNIT-3 20 Hours

Electron Spin Resonance Spectroscopy: Hyperfine coupling, Zero field splitting and kramers degeneracy, spin orbit coupling and significance of generacy, application to transition metal complexes (having one unpaired electron) including biological systems and to inorganic free radicals such as PH, F, and [BH₃].

UNIT-4 17 Hours

Nuclear Magnetic Resonance of Paramagnetic Substances in Solution The contact and pseudo contact shifts, factors affecting nuclear relaxation, some applications including biochemical systems, an overview of NMR of metal nuclides with emphasis on 195 Pt and 199Sn NMR, specific study of MRI,

fused benzo ring: synthesis and reaction including medicinal applications of benzopyrroles, bezofurans and benzothiophenes.

UNIT-4 BICYCLIC RING SYSTEM AND MESO IONIC HETEROCYCLES:

six-membered Heterocycles with one Heteroatom. Synthesis and reactions of pyridines, quinolines, isoquinolines, pyrylium salts and pyrones and Synthesis and reactions of quionlizinium and benzopyrylium.

UNIT-5 HIGHER HETEROCYCLES: 16 Hours

Six membered Heterocycles with two or more Heteroatoms. Synthesis and reactions of diazenes, and thiazines, pyrimidines.

Seven-and Large-membered Heterocycles: Synthesis and reactions of azepines, oxepines, thiepines.

SUGGESTED READING BOOKS

- Heterocyclic Chemistry Vol. 1-3, R.R. Gupta, M. Kumar and V.Gupta, Springer Verlag.
- 2. The Chemistry of Heterocycles, T. Eicher and S. Hauptmann, Thieme.
- Heterocyclic chemistry J.A. Joule, K. Mills and G.F. Smith, Chapman and Hall.
- 4. Heterocyclic Chemistry, T.L. Gilchrist, Longman Scietific Techinal.
- Contemporary Hetrocyclic Chemistry, G., R. Newkome and W.W. Paudler, Wiley-Inter Science.
- 6. An Introduction to the Heterocyclic Compounds, R.M. Acheson, Johnwiely.
- Comprehensive Heterocyclic Chemistry, A.R. Katrizky and C.W. Rees, eds. Pergamon Press
- 8. R.K. Bansal, Hetrocyclic chemistry, 5th edn. New Age International
 Publishers

Fourth Semester (CBCS)

				Cent	net H	ours	EaSE Duration		Ma	rks
Code	Course Type	Course (Paper/Subjects)	Cred	Pe	r Wee	K	(Hi		SEE	IA
				L	Т	P	Thy	P		
MSC 401	ccc	BIOINORGANIC CHEMISTRY	6	4	3	0	3	0	80	20
MSC 402	ccc	ENVIRONMENTAL CHEMISTRY	6	4	3	0	3	0	80	20
MSC 403	ccc	SOUD STATE CHEMISTRY	6	4	3	0	3	0	80	20
MSC 411	coc	GENERAL CHEMISTRY LAB	6	0	0	9	3	0	10	00
MSC 804	PRJISSC	DISSERTATION	6	4	3	0	3	0	80	20
MSC DOI	ECCCB	PHOTOINORGANIC CHEMISTRY								
MSC D02	ECCCB	MATERIAL SCIENCE	6	4	3	0	3	0	80	20
MSC D03	ECCCB	CHEMISTRY OF NATURAL PRODUCT								

SYLLABUS

(CORE MODULES SYLLABUS FOR ENVIRONMENT STUDIES FOR UNDERGRADUATE COURSES OF ALL BRANCHES OF HIGHER EDUCATION)

UNIT 1

The multidisciplinary nature of environment studies. Definition, scope and importance. (2 Lectures)

Need of public awareness.

Natural resources: Renewable and non-renewable resources:

Natural resources and associated problems.

(a) Forest resources: Use and over-exploitations deforestation, case studies, timber extraction, mining, dams and their effects on forest and triabal people.

(b) Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams - benefits

and problems.

(c) Mineral resources: Use and exploitation, environmental

effects of extracting and using mineral resources, case studies.

(d) Food resources: World food problem, changes caused by agriculture and overgrazing, effects of modern agriculture, fertinger pesticide problems, water logging, salinity, case studies.

(e) Energy resources: Growing energy needs, renewable and nonrenewable energy sources, use of alternate energy sources, case studies.

(f) Land resources: Land as a resource, land degradation, " man induced landslides, soil crosion and descrification.

Role of an individual in conservation of natural resources. Equitable use of resources for sustainable life styles. (8 Lectures)

UNIT 2

ECOSYSTEMS: Concept of an ecosystem. Structure and function of an ecosystem. Producers, consumers and decomposers. Energy flow in the ecosystem.

Ecological succession.

Food chains, food webs and ecological pyramids.

Introduction, types, characteristic, features, structure and function of the following ecosystem:

(a) Forces cosystem,

- toosystems (ponds, streams, lakes, rivers, oceans, (6 Lectures)

UNIT 3

Biodiversity and its conservation. Introduction : Definition, genetic species and ecosystem diversity. Biogeographical calssification of India.

Deputy Registrar Sant Gahira Guru Vishwavidyalaya Surguja, Ambikapur (C.G.)

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र्गालक - पर्यातरण अध्ययन अनिवाय विषय

Value of biodiversity, consumptive use, productive use, social ethical, aesthetic and option values.

Biodiversity at global, national and local levels.

India as a mega-diversity nation.

Hot-spots of biodiversity.

Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts.

Endangered and endemic species of India.

Conservation of biodiversity: In situ and Ex situ conservations (8 Lectures) of biodiversity.

UNIT 4

Environmental Pollution.

Definition, Causes, effects and control measures of :

(a) Air pollution,

(b) Water pollution,

(c) Soil pollution,

(d) Marine pollution, (f) Thermal pollution,

(c) Noise pollution, (g) Nuclear hazards.

Solid Waste Management : Causes, effects and control measures of urban and industrial wastes.

Role of an individual in prevention of pollution.

Pollution case studies.

Disaster Management: Floods, earthquake, cyclone and land slides.

Human Population and the Environment: Population growth, variation among nations.

Population explosion - Family welfare programme.

Environment and human health. Human Rights. Value Education.

(18 Lectures)

UNIT 5

Social Issues and the Environment:

From unsustainable to sustainable development.

Urban problems related to energy.

Water conservation, rain water harvesting, watershed management. Resettlement and rehabilitation of people; its problems and concerns, case studies.

Environmental ethics : Issues and possible solution.

Climate change, global warning, acid rain, ozone layer depletion, nuclear accidents and holocaust, case studies.

Wastland reclamation.

Consumerism and waste products.

Environment Protection Act.

Air (Prevention and control of pollution) Act. Water (Prevention and control of pollution) Act. Wildlife Protection Act. Forest Conservation Act. Issues involed in enforcement of environmental legislation.

HIV/AIDS.

(7 Lectures)

Women and child welfare.

Role of Information Technology in Environment and human health (6 Lectures)

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Zoology B.Sc. Part III 2018-19

Paper-I

ECOLOGY, ENVIRONMENTAL BIOLOGY: TOXICOLOGY, MICROBIOLOGY AND MEDICAL ZOOLOGY

Unit: I (Ecology)

· Aims and scopes of ecology

Major ecosystems of the world-Brief introduction

- · Population- Characteristics and regulation of densities
- Communities and ecosystem
- · Bio-geo chemical cycles
- · Air & water pollution
- Ecological succession

Unit: II (Environmental Biology)

Laws of limiting factor

· Food chain in fresh water ecosystem

· Energy flow in ecosystem- Trophic levels

Conservation of natural resources

Environmental impact assessment

Unit: III (Toxicology)

Definition and classification of Toxicants

Basic Concept of toxicology

· Principal of systematic toxicology

Heavy metal Toxicity (Arsenic, Murcury, Lead, Cadmium)

Animal poisons- snake venom, scorpion & bee poisoning

Food poisoning

Unit: IV (Microbiology)

· General and applied microbiology

Microbiology of domestic water and sewage

Microbiology of milk & milk products

 Industrial microbiology: fermentation process, production of penicillin, alcoholic breverages, bioleaching.

Unit:V (Medical Zoology)

 Brief introduction to pathogenic microorganisms, Ricketssia, Spirochaetes, AIDS and Typhoid

 Brief account of life history & pathogenicity of the following pathogens with reference to man: prophylaxis & treatment

Pathogenic protozoan's- Entamoeba, Trypanosome & Plasmodium

Pathogenic helminthes- Schistosoma

· Nematode pathogenic parasites of man

Vector insects

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B.Sc.-II (BOTANY) PAPER-II (ECOLOGY AND PLANT PHYSIOLOGY)

UNIT-I

Introduction and scope of ecology, environmental and ecological factors, Soil formation and soil profile, Liebig's law of minimum, Shelford's law of tolerance, morphological and anatomical adaptations in hydrophytes, xerophytes and epiphytes.

UNIT-II

Population and community characteristics, Raunkiaer's life forms, population interactions (e.g. Symbiosis, Amensalism etc.), succession, ecotone and edge effect, ecological niches, ecotypes, ecads, keystone species

Concept of ecosystem, trophic levels, flow of energy in ecosystem, food chain and food web, concept of ecological pyramids

Biogeochemical cycles:carbon cycle, nitrogen cycle and phosphorus cycle

UNIT-III

Plant water relations: Diffusion, permeability, osmosis, imbibitions, plasmolysis, osmotic potential and water potential, Types of soil water, water holding capacity, wilting, Absorption of water, theories of Ascent of sap, Mineral nutrition and absorption, Deficiency symptoms, Transpiration, stomatal movement, significance of transpiration, Factors affecting transpiration, guttation.

UNIT-IV

Photosynthesis: Photosynthetic apparatus and pigments, light reaction mechanism of ATP synthesis. C3, C4 CAM pathway of carbon reduction, photorespiration, factors affecting photosynthesis.

Respiration: Aerobic and anaerobic respiration, Glycolysis, Kreb's cycle, factors affecting respiration, R.Q.

UNIT-V

Plant growth hormones: Auxin, Gibberellin, Cytokinin, Ethylene and Abscissic acid. Physiology of flowering, Florigen concept, Photoperiodism and Vernalization. Seed dormancy and germination, plant movement.

Books Recommended:

Koromondy, EJ. Concepts of Ecology, Prentice Hall, USA

B.Sc.-II (BOTANY) PAPER-I

(PLANT TAXONOMY, ECONOMIC BOTANY, PLANT ANATOMY AND EMBRYOLOGY)

UNIT-I

Bentham and Hooker system of classification.Binomial Nomenclature, International Code of Nomenclature for Algae, Fungi, and plants (IUCN), Typification, numerical Taxonomy and chemotaxonomy. Preservation of Plant material and Herbarium techniques.Important botanical gardens and herbaria of India, Kew Botanical garden, England.

UNIT-II

Systematic position, distinguishing characters and economic importance of the following families, Ranunculaceae, Magnoliaceae, Brassicaeae, Rosaceae, Papaveraceae, Caryophyllaceae, Rutaceae, Cucurbitaceae, Apiaceae, Rubiaceae, Apocynaceae, Asclepiadaceae, Solanaceae, Malvaceae, Convolvulaceae, Orchidaceae, Acanthaceae, verbenaceae, Lamiaceae, Asteraceae, Fabaceae, Euphorbiaceae, Poaceae and Liliaceae.

UNIT-III

Economic Botany: Botanical name, family, part used and uses of the following economically important plants, fiber yielding plants; Cotton, jute, sun, hemp, coir. Timber yielding plants: Sal, Teak, Shisham and Pine. Medicinal plants: Kalmegh, Ashwangandha, Ghritkumari, Giloy, Brahmi, sarpgandha, ---of medicinal plants of C.G. Food plants: Pearl millet, Buck of wheat, Sorghum, Soyabean, gram, Ground nut, Sugarcane and Potato. Fruit plants: Pear, Peach, Litchi. Spices: Cinnamon, Turmeric, Ginger, Asafoetida and Cumin. Beverages: Tea, Coffee Rubber Cultivation of important flowers: Chrysanthemum, Dahelia, Biodiesel plants Jatropha, Pongamia Ethnobotany in context of Chhattisgarh.

UNIT-IV

Plant Anatomy: Root and shoot apical meristems theories of root and shoot apex organization, permanent tissues, anatomy of root, stem and leaf of dicot and monocot, secondary growth in root and stem, Anatomical anomalies in the primary structure of stems (Nyctanthes, Boerhaavia, Casuarina), Anamolous secondary growth in Dracaena, Bignonia, Laptadenia.

UNIT-V

Embryology: Flower as a reproductive organ, anther, microsporogenesis, types of ovules, megasporogenesis, development of male and female gametophyte, pollination, mechanisms, self incompatibility, fertilization, endosperm, embryo, polyembryonoy, apomixes and parthenocarpy.

Books Recommended:

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बी. ए. भाग एक B. A. Part I

राजनीति विज्ञान Political Science

द्वितीय प्रश्न पत्र : भारतीय शासन एवं राजनीति Paper II : Indian Government and Politics

- इकाई 1 : भारतीय राष्ट्रीय आन्दोलन : 1858 का प्रथम स्वतन्त्रता संग्राम, असहयोग आन्दोलन, सविनय अवज्ञा आन्दोलन, भारत छोड़ो आन्दोलन । भारत का संविधानिक विकास : 1858, 1909,1919 और 1935 का मारत शासन अधिनियम ।
- Unit 1: Indian National Movement: First Independence Movement 1858, Non cooperation

 Movement, Civil Disobedience Movement and Quit India Movement. Constitutional

 Development of India: Govt. of India Act of 1858,1909, 1919 and 1935.
- इकाई 2 : भारतीय संविधान : विशेषताएं , प्रस्तावना, स्त्रोत, । संघीय व्यवस्था , <mark>मौलिक अधिकार, मूल कर्तव्य,नीति निर्देशक तत्व ।</mark> संविधान संशोधन प्रकिया ।
- Unit 2 : Constitution of India : Characteristics, Preamble, Sources. Federal System. Fundamental Rights and Duties, Directive Principles of State Policy. Constitution Amendment Process.
- इकाई 3 : संघीय कार्यपालिका : राष्ट्रपति, उपराष्ट्रपति, मन्त्रिपरिषद् और प्रधानमन्त्री । संघीय व्यवस्थापिका :संसद : लोकसभा और राज्यसभा । संसदीय प्रकिया ।
- Unit 3: Union Executive: President, Vice President, Council of Ministers and Prime Minister. Union Legislature: Parliament: Lok Sabha and Rajya Sabha. Parliamentary Procedure.
- इकाई 4 : संघीय न्यायपालिका : सर्वोच्च न्यायालय : गठन, क्षेत्राधिकार, न्यायिक पुनरावलोकन, न्यायिक सिकेयतावाद । राज्य कार्यपालिका : राज्यपाल , मन्त्रिपरिषद् और मुख्यमन्त्री ।
- Unit 4: Union Judiciary: Supreme Court: Organisation, Jurisdiction, Judicial Review, Judicial Activism.

 State Executive: Governor, Council of Ministers and Chief Minister.
- इकाई 5 : राज्य व्यवस्थापिका : विधानसंभा एवं विधानपरिषद् । निर्वाचन आयोग व चुनाव सुधार । राष्ट्रीय व क्षेत्रीय दल । भारतीय राजनीति के प्रमुख मुददे : जाति, धर्म, भाषा और क्षेत्र । पंचायती राज व्यवस्था।
- Unit 5: State Legislature: Legislative Assembly and Legislative Council. Election Commission and Election Reforms. National and Regional Parties. Major issues of Indian Politics: Caste, Religion, Language and Region. Panchayati Raj System.

सद भ पुर तक (Reference Books)

- डॉ. सुभाष कश्यप, भारत का संवैधानिक विकास और संविधान, हिन्दी माध्यम कार्यान्वय निदेशालय दिल्ली विश्वविद्यालय।
 डॉ. सुभाष कश्यप, हमारी संसद, भारत की संसद एक परिचय, राष्ट्रीय पुस्तक न्यास।
- 10. डॉ. रूपा मंगलानी, भारतीय शासन एवं राजनीति, राजस्थान हिन्दी ग्रंथ अकादमी जयपुर।
- 11- M.V. Pylee, Constitutional History of India, S.Chand.
- 12- D.D. Basu Indian Constitution

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बी. ए. भाग 2 B. A. Part II

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प्रथम प्रश्नपत्र : राजनीतिक चिन्तन Paper I : Political Thought

प्लेटो : आदर्श राज्य – न्याय, शिक्षा, साम्यवाद, दार्शनिक शासक । इकाई 1 :

अरस्तु : राज्य, दासप्रथा, नागरिकता , क्रान्ति ।

Plato: Ideal State: Justice, Education, Communism, Philosopher King. Unit 1:

Aristotle: State, Slavery, Citizenship, Revolution.

मैकियावेली : युग का शिशु, धर्म व नैतिकता, राजा के कर्तव्य और आचरण। डकाई 2:

हॉब्स : सामाजिक समझौता सिद्धान्त – लेवियाथन । लॉक : सामाजिक समझौता सिद्धान्त ।

रुसो : सामाजिक समझौता सिद्धान्त , सामान्य इच्छा ।

Machiavelli: Child of his times, Religion and Morality, Duties and Conduct of King. Hobbes: Unit 2:

Social Contract Theory: Leviathan. Locke: Social Contract Theory. Rousseau: Social Contract

Theory and General Will.

बेंधम : उपयोगितावाद । मिल : उपयोगितावाद में संशोधन, स्वतंत्रता और प्रतिनिधि शासन । इकाई 3:

ग्रीन : राजनीतिक विचार । मार्क्स : राजनीतिक विचार ।

Bentham: Utiliterianism. Mill: Amendment in Utiliterianism. Liberty and Representative Unit 4:

Government, Green: Political Thoughts. Marx: Political Thoughts.

आदर्शवाद, व्यक्तिवाद, उदारवाद, समाजवाद, फासीवाद : विशेषताएं और आलोचना । इकाई 4 :

Idealism, Individualism, Liberalism, Socialism, Fascism: Features and Unit 4:

Criticism.

मनु और कौटिल्य : सप्तांग सिद्धान्त, राजा और राजपद, प्रशासकीय व्यवस्था, राज्यमण्डल । इकाई 5 :

गांधी : सत्य, अहिंसा, सत्याग्रह एवं राजनीतिक विचार । अम्बेडकर : राजनीतिक एवं सामाजिक विचार

दीनदयाल उपाध्याय : एकात्ममानववाद ।

Manu and Kautilya: Saptang Theory, King and Kingship, Administrative Unit 5:

System, Rajyamandal.

Gandhi: Truth, Non violence, Satyagrah and Political thoughts.

Ambedkar: Political and Social thoughts.

Deen Dayal Upadhyay : Akatmamanavvad.

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राजनीति विज्ञान Political Science

द्वितीय प्रश्नपत्र : तुलनात्मक शासन एवं राजनीति Paper II : Comparative Government and Politics

- इकाई 1: ब्रिटिश संविधान : विकास, विशेषताएं, कार्यपालिका , व्यवस्थापिका, न्यायपालिका ।
- Unit 1: British Constitution: Evolution, Salient Features, Executive, Legislature and Judiciary.
- इकाई 2 : संयुक्त राज्य अमेरिका का संविधान : विशेषताएं, कार्यपालिका , व्यवस्थापिका, न्यायपालिका , शक्ति पृथक्करण व नियंत्रण संतुलन का सिद्धान्त ।
- Unit 2: Constitution of United States of America: Salient Features, Executive, Legislature and Judiciary. Theory of Separation of Powers and checks and balances.
- इकाई 3 : स्विटजरलेण्ड का संविधान : विशेषताएं, कार्यपालिका , व्यवस्थापिका, न्यायपालिका , प्रत्यक्ष प्रजातन्त्र । Unit 3 : Constitution of Switzerland : Salient Features, Executive, Legislature and Judiciary. Direct Democracy.
- इकाई 4: चीन का संविधान :विशेषताएं, कार्यपालिका , व्यवस्थापिका, न्यायपालिका, साम्यवादी दल ।
- Unit 4: Constitution of China: Salient Features, Executive, Legislature and Judiciary.

 Communist Party.
- इकाई 5 : तुलनात्मक राजनीति : अर्थ, परिभाषा, । ईस्टन का व्यवस्था सिद्धान्त, आमण्ड का संरचनात्मक-प्रकार्यात्मक उपागम । राजनीतिक विकास, राजनीतिक समाजीकरण, राजनीतिक संस्कृति की अवधारणा।
- Unit 5 : Comparative Politics : meaning , Definition. System Theory of David Easton,
 Structural -functional Approach of Almond. Concept of Political Development, Political
 Socialisation, Political Culture

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राजनीति विज्ञान Political Science

द्वितीय प्रश्नपत्र : लोक प्रशासन Paper : II : Public Administration

इकाई 1 : लोक प्रशासन : अर्थ, परिभाषा, प्रकृति, क्षेत्र । लोक प्रशासन और निजी प्रशासन । अध्ययन पद्धतियां नवीन लोक प्रशासन । तुलनात्मक लोक प्रशासन ।

Unit 1: Public Administration: meaning and definition, nature, scope. Public Administration and Private Administration. Method of Studies. New Public Administration. Comparative Public Administration.

इकाई 2 : संगठन के सिद्धान्त : पदसोपान, नियंत्रण का क्षेत्र , आदेश की एकता, प्रत्यायोजन ।

मुख्य कार्यपालिका । सूत्र एवं स्टाफ अभिकरण । विभागीय संगठन , लोक निगम । कार्मिक प्रशासन
: भर्ती, पदोन्नति , प्रशिक्षण ।

Unit 2: Principles of Organisation: Hierarchy, Span of Control, Unity of Command,
Delegation. Chief Executive. Line and Staff Agencies. Departmental Organisation. Public
Corporation. Personnel Administration: Recruitment, Promotion, Training.

इकाई 3 : विकास प्रशासन : प्रकृति, मुद्दे और विशेषताएं । रिग्स मॉडल । प्रशासन में नागरिक सहभागिता । सुशासन और ई शासन । संध लोक सेवा आयोग ।

Unit 3: Development Administration: Nature, Issues, Characteristics. Riggs Model.

Public participation in Administration. Good Governance and

e- Governance. Union Public Service Commission.

इकाई 4 : वित्तीय प्रशासन : बजट के सिद्धान्त । भारत में बजट प्रक्रिया । भारत में प्रशासनिक सुधार । प्रशासन पर कार्यपालिका, विधायी, न्यायिक और जन नियन्त्रण ।

Unit 4: Financial Administration: Principles of Budget. Budget procedure in India.
Administrative reforms in India. Executive, Legislative, Judicial and Public Control on Administration.

इकाई 5 : प्रशासन में भ्रष्टाचार : आम्बुङ्समैन, लोकपाल और लोक आयुक्त । वैश्वीकरण के युग में लोक प्रशासन । उदारीकरण । नौकरशाही । लोक सम्पर्क ।

Public Administration in the age of Globalisation. Liberalisation. Bureaucracy.

Corruption in Administration: Ombudsman, Lokpal and Lok Ayukta.

Public Relation.

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बी.ए. / बी.एस—सी. / बी.कॉम. / बी.एच.एस.—सी. भाग – एक (आधार पाठ्यकम) प्रश्न पत्र— प्रथम (हिन्दी भाषा) (पेपर कोड –0101)

पूर्णाक- 75

नोट :-

- 1. प्रश्न पत्र 75 अंक का होगा।
- 2. प्रश्न पत्र अनिवार्य होगा ।
- 3. इसके अंक श्रेणी निर्धारण के लिए जोड़े जायेंगे।
- प्रत्येक इकाई के अंक समान होंगे।

पाठ्य विषय :-

इकाई-1

- क. पल्लवन, पत्राचार, अनुवाद, पारिभाषिक शब्दावली एवं हिंदी में पदनाम
- ख. ईदगाह (कहानी) मुंशी प्रेमचंद

इकाई-2

- क. शब्द शुद्धि, वाक्य शुद्धि, शब्द ज्ञान-पर्यायवाची शब्द, विलोम शब्द, अनेकार्थी शब्द, समश्रुत शब्द, अनेक शब्दों के लिए एक शब्द एवं मुहावरे-लोकोक्तियाँ
- ख. भारत वंदना (कविता)- सूर्यकान्त त्रिपाठी निराला

इकाई-3

- क. देवनागरी लिपि नामकरण, स्वरूप एवं देवनागरी लिपि की विशेषताएँ, हिंदी अपठित गद्यांश, संक्षेपण, हिंदी में संक्षिप्तीकरण
- ख. भोलाराम का जीव (व्यंग्य) हरिशंकर परसाई

इकाई-4

- क. कम्प्यूटर का परिचय एवं कम्प्यूटर में हिंदी का अनुप्रयोग
- ख. शिकागो से स्वामी विवेकानंद का पत्र

इकाई-5

- क. मानक हिन्दी भाषा का अर्थ, स्वरूप, विशेषताएँ, मानक, उपमानक, अमानक भाषा
- ख. सामाजिक गतिशीलता प्राचीन काल, मध्यकाल, आधुनिक काल

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प्रस्तावना-

हिन्दी केवल खड़ी बोली नहीं है, बल्कि एक बहुत बड़ा भाषिक समूह है। हिन्दी जगत में अनेक विभाषाएं, बोलियाँ और उपबोलियाँ विद्यमान हैं जिनमें सकल साहित्य सम्पदा है। इनके सम्यक अध्ययन और अन्वेषण की आवश्यकता है। जनपदीय भाषा छत्तीसगढ़ी निरन्तर विकास की ओर अग्रसर हो रही है अस्तु, इस भाषा का और इसमें रचित साहित्य का इतिहास— विकास स्पष्ट करते हुए इनसे संबंधित प्रमुख रचनाकारों का आलोचनात्मक अनुशीलन करना हिन्दी के वृहत्तर हित में होगा। छत्तीसगढ़ी भाषा का पाठ्यकम निम्न बिन्दुओं पर आधारित हैं—

- (क) छत्तीसगढ़ी भाषा का इतिहास- विकास
- (ख) छत्तीसगढ़ी भाषा में रचित साहित्य का इतिहास
- (ग) छत्तीसगढ़ी भाषा के प्रमुख प्राचीन एवं अर्वाचीन रचनाकारों की कृतियों का अध्ययन।

पाठ्य विषय— रचनाएँ—

- (1) प्राचीन कवि संत धर्मदास के 3 पद
 - 1. गुरू पइंया लागों नाम लखा दीजो हो।
 - 2. नैना आगे ख्याल घनेरा।
 - भजन करौ भाई रे, अइसन तन पाय के। (सन्दर्भ— धर्मदास के शब्दावली से उद्घृत)
- (2) लखनलाल गुप्त का गद्य-
 - सोनपान
 (गद्य- पुस्तक' सोनपान' के उद्घृत)
- (3) अर्वाचीन रचनाकारडॉ. सत्यमामा आडिल रचित गद्य1. सीख सीख के गोठ(गद्य पुस्तक 'गोठ' के उद्घृत)
- (4) डॉ. विनय पाठक की कविताएँ-
 - 1. तँय उठथस सुरूज उथे
 - 2. एक किसिम के नियाव

('अकादसी और अनचिन्हार' पुस्तक से उद्घृत)

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हिन्दी निबंध तथा अन्य गद्य विधाएँ(पेपर कोड- 0174)

पूर्णाक- 75

पाठय विषय-

व्याख्या एवं आलोचनात्मक प्रश्नों के लिए एक नाटक, पांच प्रतिनिधि निबंध और पाँच एकांकी का निर्धारण किया गया है।

नाटक- अंधेरी नगरी- भारतेन्द्र हरिश्चन्द्र

निबंध—	1. कोघ	- आचार्य रामचन्द्र शुक्ल।
	2. बसन्त	 डॉ. हजारी प्रसाद द्विवेदी।
	3. उस अमराई ने राम- राम कही है	डॉ. विद्यानिवास मिश्र।
	4. काव्येषु नाट्यम रम्यम्	वाबू, गुलाब राय।
	5. बेईमानी की परत	 हरिशंकर परसाई
एकांकी-	1. औरंगजेब की आखिरी रात	 डॉ. रामकुमार वर्मा
	2. स्ट्राईक	– भुनेश्वर
	3. एक दिन	लक्ष्मीनारायण मिश्र
	4. दस हजार	 उदयशंकर भट्ट
	5. मम्मी ठकुराईन	 डां. लक्ष्मीनारायण लाल

दुत पाठ के लिए तीन गद्यकारों का अध्ययन किया जायेगा, जिन पर लघुउत्तरीय प्रश्न पूछे जायेंगे।
1. राहुल सांकृत्यायन 2. महादेवी वर्मा 3. हबीब तनवीर

अंक विभाजन— व्याख्याएं (3)	— 21 अंक
आलोचनात्मक प्रश्न (2)	24 अंक
लघुउत्तरीय प्रश्न (5)	15 अंक
वस्तुनिष्ठ (15)	15 अंक
कुल अंक	75 अंक

इकाई विभाजन-

इकाई- 1 व्याख्या

इकाई- 2 अंधेरी नगरी एवं कोध, वसन्त, उस अमराई ने राम- राम कही हैं।

इकाई- 3 औरंगजेब की आखिरी रात, स्ट्राईक, एक दिन, दस हजार, मम्मी ठकुराईन

इकाई- 4 द्रुतपाठ के गद्यकार- राहुल सांकृत्यायन, महादेवी वर्मा, हबीब तनवीर।

इकाई- 5 वस्तुनिष्ठ (समग्र पाठ्य विषय से)

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अर्वाचीन हिन्दी काव्य (पेपर कोड- 0173)

पूर्णाक- 75

प्रस्तावना— आधुनिक काव्य आधुनिकता की समस्त विशेषताओं को समेटे हुए है। स्वतंत्रता प्राप्ति के पूर्व की भाव— भाषा, शिल्प, अन्तर्वस्तु सम्बन्धी समस्त विकास धारा यहां सजीव रूप में देखी जा सकती है। इसे अनदेखा करना मनुष्य की विकास यात्रा को नजर अंदाज करना है। इस यात्रा के साक्षात्कार के लिए आधुनिक काव्य का अध्ययन अपेक्षित ही नहीं अपितु अनिवार्य हैं।

पाठ्य विषय-

माखन लाल चतुर्वेदी

1.	मैथिलीशरण गुप्त	 भारत— भारती की कवित 	įΫ
2.	सूर्यकान्त त्रिपाठी निराला	- (1) सखि बसन्त आया	1
		(२) वर हे वीणा वाहिर	fi fi

- (3) हिन्दी के सुमनों के प्रति पत्र।
- (4) तोड़ती- पत्थर।
- (5) राजे ने अपनी रखवाली की।
- अप्तित्रानंदन पंत
 (1) बादल।
 (2) परिवर्तन २ पद (1.खोलता इधर जन्मलोचन
 अाज का दुख कल का आल्हाद)
 - (3) ताज। (4) झंझा में नीम। (5) भारत माता।
 - (1) बिल पंथी से ।
 - (2) साँझ और ढोलक की थापें।(3) मैं बेच रही हूँ, दही।
 - (4) उलाहना।
 - (5) निः शस्त्र सेनानी।
- 5. स. ही. वात्स्यायन अज्ञेय (1) सबेरे उठा तो धूप खिली थी। (2) साम्राज्ञी का नैवेद्य दान।
 - (3) घर।
 - (4) चांदनी जी लो।
 - (5) दूर्वीचल।

दुतपाठ हेतु निम्न कवियों का अध्ययन किया जाएगा. जिन पर लघुउत्तरीय प्रश्न पूछे जायेंगे—



संशोधित बी. ए. भाग–1 हिन्दी साहित्य द्वितीय– प्रश्न पत्र हिन्दी कथा साहित्य (पेपर कोड– 0104)

पूर्णांक 75

उद्देश्य एवं प्रस्तावना-

गद्य की प्रमुख विधाओं का इतना दुत विकास इनकी लोकप्रियता का प्रमाण प्रस्तुत करता है। इसमें आधुनिक जीवन, अपनी विविध किमयों के साथ यथार्थ रूप में अभिव्यंजित हुआ है। जीवन की अनुभूतियाँ, संवेदनाओं तथा विविध परिस्थितियों के साक्षात्कार के लिए इनका अध्ययन सर्वथा अपेक्षित है।

पाठ्य विषय-

व्याख्या एवं आलोचनात्मक प्रश्नों के लिए एक उपन्यास एवं आठ कहानीकारों की एक- एक प्रतिनिधि कहानी का अध्ययन आवश्यक है।

उपन्यास	1.	प्रेमचंद	= ==	गबन
कहानी	1.	प्रेमचंद	-	कफन
	2.	जयशंकर प्रसाद	-	आकाश दीप
	3.	यशपाल	_	परदा
	4.	फणीश्वनाथ रेणु	_	ठेस
	5.	मोहन राकेश	-	मलबे का मालिक
	6.	भीष्म साहनी	-	चीफ की दावत
	7.	गुलशेर खाँ शानी	-	जली हुई रस्सी
	8.	रांगेय राघव	-	गदल

दुत पाठ के लिए निम्नांकित तीन कथाकारों का अध्ययन अपेक्षित है, जिनमें से किन्हीं दो पर लघुउत्तरीय प्रश्न पूछे जावेंगे—

1. उपेन्द्रनाथ अश्क, 2. बाल शौरि रेड्डी 3. शिवानी

अंक विभाजन— व्याख्या (3) 21 अंक आलोचनात्मक प्रश्न (2) 24 अंक लघुउत्तरीय प्रश्न (5) 15 अंक वस्तुनिष्ठ प्रश्न (15) 15 अंक

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संशोधित पाठ्यकम

बी. ए. भाग-1

हिन्दी साहित्य

प्रथम- प्रश्न पत्र

(प्राचीन हिन्दी काव्य)

पूर्णांक 75

(पेपर कोड- 0103)

उद्देश्य एवं प्रस्तावना-

प्राचीन से तात्पर्य है— आधुनिक काल से पूर्व का काल। सही अर्थ में हिन्दी भाषा और साहित्य का विकास आदिकाल से शुरू होता है। इसमें धार्मिक तथा ऐतिहासिक दो प्रकार का साहित्य मिलता है, जो प्रबंध, मुत्तक, रासो, फागु, चिरत, सुभाषित आदि विविध काव्यरूपों में अभिव्यंजित है। मध्यकालीन साहित्य की पृष्ठभूमि के रूप में इसे प्रतिष्ठापित किया जाता है।

मध्यकालीन काव्य में भक्तिकाव्य, जहां लोक जागरण को स्वर देने वाला है, वहीं रीतिकाल अपने लौकिक— श्रृंगारिका, परिदृश्य में तत्कालीन सामाजिक, सांस्कृतिक, राजनीतिक रिधतियों को बेलौस अभिव्यंजित करता है। अतः भाषा, संस्कृति, विचार, मानवता, काव्यरूपता, लौकिकत— पारलौकिकता, आदि दृष्टियों से इसका अध्ययन अत्यावश्यक है।

पाउय विषय-

- कबीर (कबीर- कांतिकुमार जैन, प्रारंभिक 50 साखियाँ)
- 2. जायसी- (संक्षिप्त पद्यावत- श्यामसुंदर दास, नागमती वियोग वर्णन)
- 3. सूर (भ्रमर गीत सार- सं. आचार्य रामचन्द्र शुक्ल, प्रारंभिक 25 पद)
- 4. तुलसी "रामचरित मानस" के सुंदरकाण्ड से प्रारंभिक 30 दोहे चौपाई छंद साहित
- 5. घनानन्द (घनानन्द— सं. विश्वनाथ प्रसाद मिश्र, प्रारंभिक 25 छंद) दुत पाठ हेतु निम्नांकित तीन कवियों का अध्ययन किया जावेगा— जिसमें से किन्हीं दो पर लघुउत्तरीय प्रश्न पूछे जायेंगे—
- 1. विद्यापति
- 2. रहीम
- 3. रसखान

अंक विभाजन-

- व्याख्याएँ (3) 21 अंक
- 2. आलोचनात्मक प्रश्न (2) 24 अंक
- लघुउत्तरीय प्रश्न (5) 15 अंक
- वस्तुनिष्ठ प्रश्न (15) 15 अंक

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संशोधित पाठ्यकम बी.ए./बी.एस—सी./बी.कॉम./बी.एच.एस.—सी. भाग — दो, आधार पाठ्यक्रम प्रश्न पत्र — प्रथम (हिन्दी भाषा) (पेपर कोड — 0171)

पूर्णांक- 75

खण्ड - क निम्नलिखित 5 लेखकों के पाउ शामिल होंगे -

अंक-35

1. महात्मा गांधी - चोरी और प्रायश्चित

2. आचार्य नरेंद्र देव - युवकों का समाज में स्थान

वासुदेव शरण अग्रवाल – मातृभूमि

हरि ठाकुर – डॉ. खूबचंद बघेल

पं. माधवराव सप्रे – सम्भाषण–कृशलता

खण्ड-ख

हिन्दी भाषा और उसके विविध रूप

अंक-16

अंक-24

1. कार्यालयीन भाषा

2. मीडिया की भाषा

3. वित्त एवं वाणिज्य की भाषा

4. मशीनी भाषा

खण्ड-ग

हिन्दी की व्याकरणिक कोटियाँ संज्ञा, सर्वनाम, विशेषण, किया विशेषण,

समास, संधि एवं संक्षिप्तियां

अनुवाद व्यवहार : अंग्रेजी से हिन्दी में अनुवाद

इकाई विभाजन-

इकाई- 1 चोरी और प्रायश्चित : महात्मा गांधी / कार्यालयीन भाषा, मीडिया की भाषा

इकाई- 2 युवकों का समाज में स्थान : आचार्य नरेन्द्र देव / वित एवं वाणिज्य की भाषा, मशीनी भाषा

इकाई- 3 मातृभूमिः वासुदेवशरण अग्रवाल / संज्ञा सर्वनाम, विशेषण, किया विशेषण

इकाई- 4 डॉ. खूबचंद बघेल : हिर ठाकुर/समास, संधि,

इकाई- 5 सम्भाषण-कुशलता : पं. माधवराव सप्रे. / अनुवाद - अंग्रेज़ी से हिन्दी में अनुवाद, संक्षिप्तियाँ

मूल्यांकन योजना -

प्रत्येक इकाई से एक—एक प्रश्न पूछे जाएंगे। प्रत्येक प्रश्न में आंतरिक विकल्प होगा। प्रत्येक प्रश्न के 15 अंक होंगे। प्रत्येक इकाई को दो—दो खण्डों (कमश' क' और 'ख' में) विभक्त करते हुए निर्धारित पाठ से 8 एवं शेष पाठ्य सामग्री से 7 अंक के प्रश्न होंगे। इस प्रकार पूरे प्रश्न—पत्र के पूर्णांक 75 होंगे।

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B.Com Part- I Compulsory

Group - I Paper - II - BUSINESS COMMUNICATION

OBJECTIVE - To develop effective business communication skills among the students.

Present Syllabus	Proposed Syllabus	Remark
UNIT –I Introducing Business Communication: Definitions, concept and Significance of communication, Basic forms of communicating; Communication models and process principles of effective communication; Theories of communication; Audience analysis. Self Development and Communication; Development of positive personal attitudes, SWOT analysis; Vote's model of interdependence; Whole Communication.	UNIT -I Introducing Business Communication: Definitions, concept and Significance of communication, Basic forms of communicating; Communication models and process; principles of effective communication; Theories of communication; Self-Development and Communication; Development of positive personal attitudes, SWOT analysis;	Omission of Vote's model of interdependence.
UNIT -II Corporate Communication: Formal and Informal communication networks; Grapevine; Miscommunication (Barriers); improving communication Practices in business communication; Group discussions; Mock interviews, Seminars; Effective listening exercises, Individual and group presentations and report writing.	UNIT -II Corporate Communication: Formal and Informal communication networks; Grapevine; Miscommunication (Barriers); improving communication. Practices in business communication; Group discussions; Seminars; Effective Listening: Principles of effective listening; Factor affective listening exercises; Oral, Written, and video session, Audience analysis and feedback.	Balancing of Syllabus and omitted
UNIT -III Writing skill: Planning business messages; Rewriting and editing; The first draft; Reconstructing the final draft; Business letters and memo formats; Appearance request letters; Good news and bad new letters; Persuasive letters; Sales letters; Collection letters; Office memorandum. UNIT -IV Report Writing: Introduction to a proposal, Short report and formal	UNIT -III Writing skill: Business letters — Defination, concepts ,structure, advantages disadvantage, need and kinds of business letter, Essentials of effective business letter. Good news and bad new letters; Office memorandum. Writing Resume and Letter of Job Application. UNIT -IV Report Writing: Introduction to a proposal, Short report and formal report, report preparation. Oral Presentation: Principles of oral presentation, factor affecting presentation, sales presentation, training presentation, conducting surveys, speeches to motivate, presentation skill.	repeatation.

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बी,कॉम. भाग – एक अनिवार्य

समह-1 प्रश्नपत्र - 2 - व्यावसायिक संचार

वर्तमान पाठ्यक्रम	प्रस्तावित पाठ्यक्रम		
इकाई – 1	इकाई – 1		
व्यावसायिक संचार परिचय : परिभाषा , अवधारणाएं एवं संचार का महत्व, संचार के आधारभूत प्रकार एवं मॉडल एवं प्रभावी संचार के सिद्धांत , प्रक्रिया , श्रोता विश्लेषण। आत्म विकास एवं संचार , सकारात्मक व्यक्तिगत दृष्टिकोण का विकास , स्वॉट विश्लेषण , मतो की परस्पर निर्भरता का प्रतिरूप।	व्यावसायिक संचार परिचय : परिभाषा , अवधारणाएं एवं संचार का महत्व, संचार के आधारमूत प्रकार एवं मॉंडल, प्रक्रिया एवं प्रभावी संचार के सिद्धांत । आत्म विकास एवं संचार , सकारात्मक व्यक्तिगत दृष्टिकोण का विकास , स्वॉट विश्लेषण ।		
इकाई - 2	इकाई — 2		
व्यावसायिक संस्था का संचार तंत्र :- औपचारिक एवं अनौपचारिक संचार तंत्र, अंगूरी लता संचार, संचार की बाधाएं एवं सुधार। व्यवहार में व्यावसायिक संचार :- सामूहिक परिचर्चा, साक्षात्कार, संगोष्ठी, प्रभावपूर्ण सूनना, व्यक्तिगत एवं सामुहिक प्रस्तुतीकरण एवं रिपॉट लेखन। इकाई - 3	व्यावसायिक संस्था का संचार तंत्र :— औपचारिक एवं अनौपचारिक संचार तंत्र, अंगूरी लता संचार, संचार की बाधाएं एवं सुधार। व्यवहार में व्यावसायिक संचार :— सामूहिक परिचर्चा, संगोध्ठी . प्रमावपूर्ण सूनना : प्रभावपूर्ण सूनने के तिखात, प्रभावपूर्ण सूनने के कारक, मौखिक . लिखित एवं विडियो सत्र का व्यवहारिक अध्ययन, श्रोता विश्लेषण एवं प्रतिपुष्टी।		
लेखन कुशलता : व्यावसायिक संदेश की योजना एवं उसे संशोधित करना, प्रधम	इकाई - 3		
मसौदा, अंतिम मसौदा का पुनर्निर्माण , व्यावसायिक पत्र एवं ज्ञापन, प्रारूप : निवेदन पत्र , अनुकुल एवं प्रतिकुल संवाद पत्र, प्रेरक पत्र, विक्रय संबंधी पत्र, तकादे का पत्र या संग्रहण पत्र ,कार्यालयीन ज्ञापन व पत्र ।	लेखन कुशलता : व्यावसायिक पत्र - परिभाषा, अवधारणा, संरचना, गुण दोष ,		
इकाई - 4	इकाई - 4		
रिपॉट लेखन – एक प्रस्ताव का परिचय , लघु रिपॉट एवं औपचारिक रिपॉट ,रिपॉट लेखन की तैयारी।	रिपोट लेखन – एक प्रस्ताव का परिचय , लघु रिपोट एवं औपचारिक रिपोट ,रिपोट लेखन की तैयारी।		
मौखिक प्रस्तुती : मौखिक प्रस्तुती के सिद्धांत , प्रस्तुतीकरण को प्रभावित करने वाले कारक, विक्रय प्रस्तुतीकरण , प्रशिक्षण प्रस्तुतीकरण, सर्वेक्षण आयोजित करना, प्रेरक भाषण, प्रभावी प्रस्तुती कौशल।	मौखिक प्रस्तुती : मौखिक प्रस्तुती के सिद्धांत , प्रस्तुतीकरण को प्रभावित करने वाले कारक, विक्रय प्रस्तुतीकरण , प्रशिक्षण प्रस्तुतीकरण, सर्वेक्षण आयोजित करना, प्रेरक भाषण, प्रभावी प्रस्तुती कौशल।		

प्रेरक भाषण, प्रभावी प्रस्तुती कौशल।

वर्तमान पाठ्यक्रम	प्रस्तावित पाठ्यक्रम
इकाई – 5 अशाब्दिक संचार के पहलू – दैहिक भाषा : समय एवं पार्श्व भाषा , प्रभावपूर्ण सूनना : प्रभावपूर्ण सूनने के सिद्धांत, प्रभावपूर्ण सूनने के कारक, मौखिक , लिखित एवं विडियो सत्र का व्यवहारिक अध्ययन। साक्षात्कार कुशलता : साक्षात्कार में शामिल होना, साक्षात्कार का आयोजन, जीवनवृत – सारांश लेखन एवं आवेदन पत्र। संचार के आधुनिक रूप – फैक्स , ई मेल, वीडियो कॉन्फ्रेसिंग आदि अंतराष्ट्रीय संचार : सांस्कृतिक संवेदनशीलता एवं सांस्कृतिक संदर्भ , अंतराष्ट्रीय स्थितियों मे लेखन और प्रस्तुतीकरण करना : अंतराष्ट्रीय क्रियाओं में अंतराष्ट्रीय सांस्कृतिक कारक , वैश्विक व्यापार के संदर्भ में।	साक्षात्कार कुशलता : साक्षात्कार में शामिल होना, साक्षात्कार का आयोजन, मॉक साक्षात्कार। संचार के आधुनिक रूप — फैक्स . ई मेल, वीडियो कॉन्फ्रेसिंग आदि अंतराष्ट्रीय संचार : सांस्कृतिक संवेदनशीलता एवं सांस्कृतिक संदर्भ , भूमण्डलीय व्यावसाय के लिए अंतराष्ट्रीय संप्रेषण।

Suggested Readings:

- 1. Dr. P. K. Agrawal, Dr. A.K. Mishra; Business Communication; Sahitya Bhawan Publication; Agra (Hindi medium)
- 2. Balasubramanyam: Business Communication; Vikas Publishing House, Delhi. (English medium)
- 3. Dr. Vinod Mishra: Business Communication; Sahitya Bhawan Publication; Agra. (Hindi medium)
- 4. Kaul: Effective Business Communication; Prentice Hall, New Delhi. (English medium)
- 5. Patri VR: Essentials of Communication; Greenspan Publications, New Delhi. (English medium)
- 6. Senguin J: Business Communication; The Real World and Your Career, Allied Publishers, New Delhi. (English medium)
- 7. Dr. Mishra, Shukla & Patel; Business Communication; SBPD Publishing House, Agra. (Both Hindi and English medium)

PRINCIPAL Gévi. Girls College Ambikenus Distr.-Sumue (C.G.)

बी,कॉम. भाग — एक अनिवार्य

समूह-2 प्रश्नपत्र - 2 - व्यावसायिक नियमन रूपरेखा

वर्तमान पाठ्यक्रम

इकाई - 1

भारतीय अनुबंध अधिनियम (1872) : अनुबंध की प्रकृति : वर्गीकरण , प्रस्ताव तथा स्वीकृति, अनुबंध के योग्य पक्षकार , पक्षकारों की स्वतंत्र सहमति , प्रतिफल, उद्देश्य की वैधता , व्यर्थ घोषित ठहराव : अनुबंध का निष्पादन , अनुबंधों की समाप्ति , अनुबंध भंग के उपाय एवं परिणाम।

इकाई - 2

विशिष्ट अनुबंध : क्षतिपूर्ति , प्रतिभूति, निक्षेप, गिरवी अनुबंध, एजेंसी।

इकाई - 3

वस्तु विक्रय अधिनियम (1930) : वस्तु विक्रय अनुबंध का निर्माण , माल का वर्गीकरण , कीमत, शर्ते और आश्वासन , माल के स्वामित्व का हस्तांतरण, विक्रय अनुबंध का निष्पादन , अदत्त विक्रेता के अधिकार , नीलाम द्वारा विक्रय , किराया क्रय ठहराव।

इकाई - 4

विनिमय साध्य विलेख अधिनियम (1881) : परिभाषाएं, विशेषताएं . प्रतिज्ञा पत्र, विनिमय विपत्र और धनादेश (चैक) : धारक तथा यथाविधिधारी , रेखांकित चैक, रेखांकन के प्रकार, परक्रामण, विनिमय साध्य विलेख का अनदारण व मुक्ति।

इकाई - 5

उपभेक्ता संरक्षण अधिनियम (1986) : मुख्य विशेषताएं , उपभोक्ता की परिभाषा , उपभोक्ता विवाद निवारण अभिकरण। मुख्य प्रावधान , सूचना का अधिकार अधिनयम (2005) – मुख्य प्रावधान।

प्रस्तावित पाठ्यक्रम

इकाई - 1

भारतीय अनुबंध अधिनियम (1872) : अनुबंध की प्रकृति : वर्गीकरण , प्रस्ताव तथा स्वीकृति, अनुबंध के योग्य पक्षकार , पक्षकारों की स्वतंत्र सहमति , प्रतिफल, उद्देश्य की वैधता , व्यर्थ घोषित ठहराव ।

इकाई - 2

अनुबंध का निष्पादन ,अनुबंधों की समाप्ति , अनुबंध भंग के उपाय एवं परिणाम। विशिष्ट अनुबंध : क्षतिपूर्ति , प्रतिभूति, निक्षेप , गिरवी अनुबंध, एजेंसी।

इकाई - 3

वस्तु विक्रय अधिनियम (1930) : वस्तु विक्रय अनुबंध का निर्माण , माल का वर्गीकरण , कीमत, शर्ते और आश्वासन , माल के स्वामित्व का हस्तांतरण, विक्रय अनुबंध का निष्पादन , अदत्त विक्रेता के अधिकार , नीलाम द्वारा विक्रय , किराया क्रय ठहराव।

इकाई - 4

विनिमय साध्य विलेख अधिनियम (1881) : परिभाषाएं, विशेषताएं , प्रतिज्ञा पत्र, विनिमय विपत्र और धनादेश (चैक) : धारक तथा यथाविधिधारी , रेखांकित चैक, रेखांकन के प्रकार, परक्रामण, विनिमय साध्य विलेख का अनदारण व मुक्ति।

इकाई - 5

उपभेक्ता संरक्षण अधिनियम (1986) : मुख्य विशेषताएं , उपभोक्ता की परिभाषा , उपभोक्ता विवाद निवारण अभिकरण। भारतीय साझेदारी अधिनियम 1932। सीमित दायित्व वाली साझेदारी अधिनियम 2008। बौद्धिक संपदा अधिकार अधिनियम का परिचय – कॉपीराईट, पेटेन्ट एवं ट्रेडमार्क।

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B.Com Part- I Compulsory

Group - II Paper - II - BUSINESS REGULATORY FRAMEWORK

OBJECTIVE - To provide a brief idea about the framework of Indian business laws

Present Syllabus	Proposed Syllabus	Remark
UNIT -I	UNIT -I	
Law of Contract (1872): Nature of contract; Classification; Offer and acceptance; Capacity of parties to contract, free consent, Considerations, Legality of object; Agreement declared void; Performance of contract; Discharge of contract; Remedies for breach of contract.	Law of Contract (1872) -I: Nature of contract; Classification; Offer and acceptance; Capacity of parties to contract, free consent, Considerations, Legality of object; Agreement declared void.	mutes aget ou
contract.	UNIT -II	Balancing of Syllabus
UNIT -II Special contracts; Indemnity ; Guarantee; Bailment and pledge; Agency.	Law of Contract (1872) - II: Performance of contract, Discharge of contract; Remedies for breach of contract. Special contracts; Indemnity; Guarantee; Bailment and pledge; Agency.	The state of the same of the s
UNIT -III	UNIT -III	
Sale of Goods Act (1930) ;Formation of contracts of sale ;Goods and their classification, price, Conditions and warranties; Transfer of property in goods; Performance of the contract of sales; Unpaid seller and his rights; sale by auction; Hire purchase agreement. UNIT-IV		
Negotiable Instrument Act (1881): Definition of negotiable instrument; Feature; Promissory note; Bill of exchange & cheque; Holder and holder in the due course; Crossing of a cheque, types of crossing; Negotiation; Dishonuor and discharge of negotiable instrument.	Negotiable Instrument Act (1881): Definition of negotiable instrument; Feature; Promissory note; Bill of exchange & cheque; Holder and holder in the due course; Crossing of a cheque, types of crossing; Negotiation; Dishonor and discharge of negotiable instrument.	Party Appendix
UNIT-V	UNIT -V	Designed FEMA 6
The Consumer Protection Act 1986: Sailent features; Definition of consumer; Grievance redressal machinery; Foreign Exchange Management Act 2000: Definition and main provisions, Right to Information Act 2005(Main Provision)	The Consumer Protection Act 1986: Main Provision, Definition of consumer ,Consumer Disputes, Grievance redressal machinery; Indian Partnership Act 1932. Limited Liabilities Partnership Act 2008. Introduction of Intellectual Property Right Act – Copyright, Patent & Trademark.	Replaced FEMA & RTI with Partnership act, LLP Act 2008 and Intellectual property right act.

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रेनार्डोर् हेतु अनिनि विषय -

COURSE TITLE: INTELLECTUAL PROPERTY RIGHTS, HUMAN RIGHTS & ENVIRONMENT: BASICS

CREDIT:

THEORY: PRA

PRACTICAL: 6

HOURS: 90

THEORY: 90

PRACTICAL: 135

MARKS: 80 + 20

THEORY: PRACTICAL:

MARKS:

THEORY: F

PRACTICAL:

OBJECTIVE:

- Understands the concept and place of research in concerned subject
- Gets acquainted with various resources for research
- Becomes familiar with various tools of research
- Gets conversant with sampling techniques, methods of research and techniques of analysis of data.

UNIT-1 12 Hrs

- Patents: Introduction & concepts, Historical Overview.
- Subject matter of patent.
- · Kinds of Patents.
- Development of Law of Patents through international treaties and conventions including TRIPS Agreement.
- · Procedure for grant of patents & term of Patent.
- Surrender, revocation and restoration of patent.
- · Rights and obligations of Patentee .
- Grant of compulsory licenses
- Infringement of Patent and legal remedies
- Offences and penalties
- Discussion on leading cases.

UNIT-2 24 Hrs

- Meaning of Copyright, Historical Evolution,
- · Subject matter of copyright.
- · Literary works
- Dramatic Works & Musical Works
- Computer Programme
- Cinematographic films
- Registration of Copyrights

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- . Term of Copyright and Ownership of Copyrights
- Neighboring Rights
- . Rights of Performers & Broadcasters
- · Assignment of Copyright.
- · Author's Special Rights (Moral Rights)
- · Infringement of Copyrights and defenses
- Remedies against infringement (Jurisdiction of Courts and penalties)
- International Conventions including TRIPS Agreement WIPO, UCC, Paris Union, Berne Convention, UNESCO.
- Discussion on leading cases.

UNIT-3 10 Hrs

- · Rights: Meaning
- Human Rights- Meaning & Essentials
- Human Rights Kinds
- Rights related to Life, Liberty, Equals & Disable.

UNIT-4 24 Hrs

- National Human Rights Commission
- State Human Rights Commission
- · High Court
- Regional Court
- · Procedure & Functions of High & Regional Court.

UNIT-5 20 Hrs

- . Right to Environment asHuman Right
- · International HumanitarianLaw and Environment
- Environment and ConflictManagement
- Nature and Origin ofInternational EnvironmentalOrganisations (IEOs)
- Introduction to SustainableDevelopment and Environment
- Sustainable Development and Environmental Governance.

SUGGESTED READINGS

- 1. G.B.Reddy, Intellectual Property Rights and Law, Gogia Law Agency, Hyderabad.
- 2. S.R.Myneni, Intellectual Property Law, Eastern Law House, Calcutta

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COURSE TITLE : RESEA	RCH METHOLICATION: BA	DOLOGY &
EDIT:6 EORY: 6 PRACTICAL:0	HOURS: 90 THEORY: 90	PRACTICAL: 0
RKS: EORY: 100 (80+20)	-	Z - enert

OBJECTIVE:

Understands the concept and place of research in concerned subject

Gets acquainted with various resources for research

Becomes familiar with various tools of research

Gets conversant with sampling techniques, methods of research and techniques of analysis of data

Achieves skills in various research writings

Gets acquainted with computer Fundamentals and Office Software Package.

UNIT-1

18 Hours

CONCEPT OF RESEARCH:

Meaning and characteristics of research, Steps in research process, Types of research i) Basic, applied and action research ii) Quantitative and qualitative research, Areas of research in concern discipline

SELECTION OF PROBLEM FOR RESEARCH:

Sources of the selection of the problem, Criteria of the selection of the problem ,Drafting a research proposal , Meaning and types of variables , Meaning and types of hypotheses.

UNIT-2

18Hours

TOOLS OF RESEARCH:

Meaning and general information about construction procedure of (i) Questionnaire, (ii) Inferview, (iii) Psychological test, (iv) observation (v) Rating scale (vi) Attitute scale and (vii) check list, Advantages and

disadvantages of above tools



SAMPLING : Importance and Meaning of population and sample characteristics of sample a (Sampling techniques Probability sampling: random sampling, stratified random sampling,) systematic sampling, cluster sampling ii) Non-(probability sampling: incidental sampling, purposive sampling, quata sampling

UNIT-3 18 Hours

METHODS OF RESEARCH:

Meaning and conducting procedure of following methods of research : Historical method , Survey method Case study , Causal comparative method, Developmental methods, Experimental methods\

UNIT-4 18 Hours

TREATMENT OF DATA: 16

(Level of measurements of data) Steps in treatment of data: editing, coding, classification, tabulation, analysis and interpretation of results

WRITING RESEARCH REPORT:

Sections of report: Preliminary section, Content section: various chapters, Supplementary section: appendices, references, abstract, Format and style

UNIT-5

18 Hours

Computer Fundamentals:

Computer System : Features, Basic Applications of Computer, Generations of computers.

Parts of Computer System : Block Diagram of Computer System ; Central Processing Unit (CPU); Concepts and types of Hardware and Software, Input Devices - Mouse, Keyboard, Scanner, Bar Code Reader, track ball; Output Devices - Monitor, Printer, Plotter, Speaker ; Computer Memory - primary and secondary memory, magnetic and optical storage devices.

Operating Systems - MS Windows : Basics of Windows OS : Components of Windows - icons, taskbar, activating windows, using desktop, title bar, running applications, exploring computer, managing files and folders, copying and moving files and folders;

Word Processing - MS Word : Creating, Saving, Opening, Editing.

Formatting, Page Setup and printing Documents; Using tables, pictures, and charts in Documents; Using Mail Merge sending a document to a group of people and creating form, letters and label. Spreadsheet - MS Excel : Opening a Blank or New Workbook, entering data/Function/Formula into worksheet cell, Saving, Editing, Formatting, Page Sctup and printing Workbooks. Presentation Software - MS Power Point : Creating and enhancing

apresentation

SUGGESTED READINGS

Agrawal, Y. P. (1988). Better sampling: Concepts, Techniques and Evaluation. New Delhi : sterling Publishers Private Ltd. Best, J. W.

Research in Education (6" ed.) New Delhi : Prentice-Hall of India Pvt. Ltd.

Broota, K. D. (1992) Experimental design in Behavioral Research (2" ed.)

New Delhi: Wiley Eastern Limited.

Dasgupta, A. K. (1968). Methodology of Economic Research. Bombay: Asia Publishing House. Edwards, A. L. (1957). Techniques of Attitude Scale construction. New York: Appleton-

Gall, M. D., Gall, J. P. and Borg, W. R. (2007). Educational Research: An introduction

(8° ed.) Coston : Allyn and Bacon.

Garrett, H. E. & Woodworth, R. S. (1969). Statistics in Psychology and Education. Bombay: Vakils, Feeffer & Simons Pvl. Ltd.

Goode, W. J. & Hatt, Paul K. (1952). Methods in Social Research. New York: McGraw-Hill.

Gopal, M. H. (1964). An Introduction to research Procedure in Social Sciences. Bombay: Asia Publishing House.

Hillway, T. (1964) Introduction to Research (2" ed.) Noston: Houghton Miffin.

Hyman, H. H., et al. (1975). Interviewing in Social Research. Chicago: University of Chicago Press.

Kerlinger, F. N. (1983) Foundation of Behavioural Research. (2"

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12

GGESTED READIG

Bhanucha, Erach Text Book of Environmental Studies. Hyderabad University Press (India) private Emitted, 2005

Doabia, T.S. Environmental and Pollution Laws in India. New Delhi : Wadhwa and Company, 2005

Joseph, Benny: Environmental Studies, New Delhi : Tata McGraw-Hill Publishing Company Limited 2006.

Khan, I.A., Text Book of Environmental Laws. Allahabad : Central Law Agency, 2002.

Leelahishnan, P. Emironmental Law Case Book. 2nd Edition New Dehi:LexisNexis Butterworths, 2006

Leelainistran, P. Environmental Law in India 2nd Edition. New Delhi Lexis Nexts Butterworths 2005.

Shastri, S.C. (ed). Human Rights, Development and Environmental Lax, An Anthology, jaipur:

Bharatlaw Publications, 2006

Environmental Poliution by Asthana and Asthana, S. Chand Poblication Environmental Science by Dr. S. R. Myneni, Asia law House Gurdo, Singh, Environmental Law in India (2005) Macmillan. Shyam Diwan and Armin Roseencranz, Environmental Law and Policin India Cases, Materials and Statutes (2nd ed. 2001) Oxford

University press.

JOURNALS:

Journals of Enforcemental Law, NLSIU, Bangalore.

MAGAZINES:

Economical and Poliscal Weekly
Down to Earth.

OURSE C	CODE: MAS BOZ	COURSE TYPE : ECC/CB			
	SOCIOLOGY OF DEVE	LOPMENT			
REDIT :		JRS: ORY: PRACTICAL:			
MARKS: HEORY:		RKS EORY: PRACTICAL			
and subject	ct matter of sociology. To undersit nature and scope of sociology, owards the development of sociology. Perspectives on Development of Dependency of Alternative				
UNIT-28 18 Hours	Charging Conception of Human Development a. Mainstream v				
UNIT-37 18 Hours	Indian Experience on Development all Sociological Appraisal of Five year plans bil Social Consequences of Economic Reforms bil Social Cultural Impact of Globalization d. Social Implication of InfoTech and Bio-Tech Revolution				
UNITA!	Consequences of Development and Sociel Degradation d Development				
VIT-5/	Issues and development in the Gender Discommation of Condition of Sustametrick	Contemporary in a Secretary Privatization at			

MARSOCLOGY STLLAN -- SEMESTER-II

MA(SOCILOCY)/ SYLLABUS(CECS)/SEMESTER - II

PRINCIPAL SAA Girls College Ambikanur

B.Sc. (HOME SCIENCE) PART-F

Group – IV Paper-A COMMUNITY DEVELOPMENT

M. Marks: 50

FOCUS

The focus of the course is on the evaluation of approaches to community development in general and in our country in particular. The course focuses on the structure of rural and urban communities, the systems comprising of interacting structures and interlocking of these to form the existing society. It will also indicate the relationship of social change to changes in the structures and systems that exist. It is expected to help students to orient themselves to be part of the development process.

OBJECTIVES: To enable students to

- 1. Be aware of the approaches to development
- 2. Develop faith in the capacity of the people, to take responsibility for their own development.
- 3. Understand the existing support structures for development efforts.
- 4. Understand the role of non Govt organizations in community development.
- 5. Understand the socio economic structures and systems that make up the rural and urban communities.
- 6. Understand the meaning of social change through development plans and programs in the context of the exiting socio-economic structures and systems.
- 7. Recognise one's own role in the development process.

THEORY

UNIT-I Development:

- Definitions, types large scale and centrally planned and small scale and locally planned.
- Goals, the purpose of developmet processes of development the input process and social action process.

Historical Perspective of Development Approaches:

- a. The Capitalistic approach.
- b. The welfare approach
- c. The Gandhian approach
- d. The modernisation approach
- e. The institutional and social justice approach

Critical Development Issues:

- a. Massive poverty
- b. Food security

Community Development in India:

Evolution of community development programme in India since Independence.

UNIT-II Support structures and their Functions:

- a. Central Social Welfare Board
- b. State Social Welfare Board
- c. National Level Voluntary Agencies such as CAPART, KVIC.
- d. Elected Panchavats.

Deputy Registrar Sant Gahira Guru Vishwavidyalaya Surguja, Ambikapur (C.G.)

PRACTICAL

eld Experience in Village(s) / Urban Slums

- Practical use of RRA / PRA Methods a. b.
 - Reporting on Socio-economic analysis of the rural / urban community
- To select, Plan, preparation .& use of different-audio visual aids., aids, i.e. C. Chart - Educational, Tree Chart, Flow. Chart., Suspense Chart.-

Posters -Cartoons Pemphlets Puppets.

- Conduct of survey based on Unit IV & V of Theory Papers, (any two) d.
 - Organising group demonstration.

REFERENCES:

- Desrochers, John (1977): Methods of Sociotal Analysis, Bangalore, India Contre for
- Desrochers, John (1980): Casto in India Today, Bangalore, India, Centre for Social Actions. Desrochers, John (1984): Classes in India Today, Bangalore, India, Centre for Social Action. Dietrich, Gabriele (1978): Culture, Religion and Development, Bangalore, India, Centre for Social Action.
- Desrochers, John (1984): India's Search for Cevelopment and Social Justice, Analysis of Indian Society. The Development Debate, Bangalore, India, Centre for Social Action. Dhurate, Barreto (1984): India's Search for Development and Social Justice, Analysis of Indian Society. The Indian. Situation, Bangalore, India, Centre for Social Action. Chamber, Robert (1.992): Rural Appraisal, Rapid, Relaxed and Participatory, Discussion paper, 311, IDS, Sussex University, Brighton, BNI 9E,
- Mukherjee, Neel (1992): Villagers' Perception of Rural poverty through the Mapping methods of participatory Rural appraisal or participatory Learning Methods: PRA / PALM Series, No. 2, Service Road, Domlur Layout, Bangalore - 560071. MYRADA'.
- Engberg, Lila E. (1990): Rural Households and Resource Allocation for Development - An Ecosystem Perspective, Guidelines for Teaching and Learning, Rome, FAO. Singh, K. (1980): Principles of Sociology, Lucknow, Prakashan Kendra. Thingalaya, N.K. (1986): Rural India - Real India, Bombay, Himalaya Publishing House. Alvinyso (1990): Social Change and Development, Madras, Sage Publications Pvt. Ltd. Subramaniya, K.N. (1988): Economic Development and Planning in India, New Delhi, Deep and Deep Publication.
- Desai, Vasant (1990) A Study of Rural Economics Systems Approach, New Delhi, Himalaya Publishing House.
- Agarwal A.N. (1985): Indian Economy PRoblems of Development and planning,
- Mann, Peter H. (1985): Methods of Social Investigation, Basil Blackwell. Oakley, Peter and David, Marsden (1984): Approaches to Participation in Rural Development - Published on behalf of the ACC TAsk Ferce of Rural Development, Geneva, International Labour Office.

Croup - IV B.Sc. (HOME-SCIENCE) PART-1

PERSONAL EMPOWERMENT AND COMPUTER BASICS Paper-B

M. Marks: 50

FOCUS:

"facilitator"- convinced and committed to the cause of empowerment of youth. and respect for cultural heritage and values. The teaching approach should be truly a professional spheres. The thrust of this course must be in the Indian context, creating pride in handling responsibilities of self-growth and^ interpersonal relationships in personal and is on the adolescent moving towards making choices, developing competencies and skills for and motivating the student towards higher goals and challenges of self-improvement. The focus This course is designed to create awareness and understanding of the need for empowerment

zeal and motivational ethos in the classroom. typical examination oriented approach should be replaced by promoting dynamism, visionary must share such an- outlook and be oriented towards the same to be really effective. Also the qualitative development of individuals and families. The teacher (facilitator) for this course Science education as holistic education with interface (and intergration) of professionalism and particularly girls. Hence the thrust is on development, women and the concept of Home information and skills" for enhancing the total outlook (perspectives) of the young student The Purpose of inclusion of this course must be viewed as "offering opportunities, motivation,

hands-on experience. This course is designed to give basic inputs to students on Computers and their functioning and

demonstrations and hands-on experience for all the students. Individuals, families and research is to be created and emphasized. The teaching learning process should include The awareness of the basic applications of computers as the tool for education, information and

OBJECTIVES:

NOLE:

.0

know the basics of computers; .6 of individuals, families and community. become sensitized to some pertinent contemporary issues that affect the quality of life for personal and professional enhancement. become aware of the interdiscipiinarity of Home Science education and its potential 3. personal and national development; become aware of the role of empowerment of women from the perspectives of empowerment and be motivated for self improvement/self -enhancement. 2. become aware of the need, competencies and skils to be developed for .I The student will

conventional lectures. Dynamism on the part of the teacher is essential for successful outcome of the course. Practical based and participatory teaching-learning methodology to be utilized : not

to be able to use computers for education, information and research.

d. Secondary storage devices

Number Systems : Decimal, Binary, Octal, Hexadecimal f.

Representation of information : BCD, EBCDIC, ASCII

Representation of Data: Files, Records, Files g.

h. File organization and access i. Security and safely of data.

Introduction to Operating Systems. j.

PRACTICAL

COMPUTER BASICS

- a. Introduction
 - Exploring the Desktop
 - Running multiple programmes
 - d. Accessories
 - Control Panel e
 - f Managing Documents and Folders

2. MS Word

- a. Starting MS-WORD
- b. Creating and Formatting a document
- Changing Fonts and Point Size C.
- Table Creation and operations d.
- Autocorrect, Auto Text, Spell Check, Thesaurus e.
- f. Word Art, inserting objects
- Mail merge, letter, label, envelope g.
- h. Page set-up, Page preview
- i. Printing a document

3. MS-Excel

- a. Starting Excel
- Work Sheet, Cell, Inserting Data into Rows/Columns b.
- Alignment, Text-wrapping C.
- Sorting data, Auto sum d.
- Use of functions, referencing formula cells in other formulae e.
- f. Naming cells and ranges, Goal seek
- Generating graphs g.
- integrating Worksheet, data and charts with WORD h.
- Creating Hyperlink to a WORD document i.
- Page set-up, Print Preview, Printing Worksheets. j.

Internet

- a. Genesis and use of Internet
- Software and hardware tequirments for Internet b.
- Accessing the Internet, Web Page, Unsing a Search Engine, Accessing the Internet C. from MS-Office applications

REFERENCES:

- Adair, J. (1992): The action Cenytrod Loaders, Bombay, Jaico Publishing House. 1. 2.
- Antony, M.J. (1989): Women's Rights, New Delhi, Hind Pocket Books Pvt. Ltd.
- Bhattacharya, R. (1987): Career Management: A NEw Challenge, Vol. I, New Delhi Enkg. 3. 4.
- Chandrashekhar R. (1992): (Ed) Women's Resource and National Development A Perspective, New Delhi; Gaurav Publishing House.
- Chandra A.A. Shah and U. Joshi (1989): Fundamentals of Toaching Home Science, New 5. Delhi; Sterling Publishers Pvt Ltd.
- Feldman, R. (1987): Understanding Psycholoty, New York; McGraw Hill Co. 6.
- Forham, A. (1995): Why Psychology, London: University College, London Press Ltd. 7.
- Gore, M.S.: Indian Youth; Frocesres of Socialization New Delhi, Vishwa Yuvak Kendra. 8.

B.Sc. (HOME-SCIENCE) PART II Paper - A Paper - A

M. Marks: 50

Focus: The course encompasses the various stages of the life cycle and how nutrition is critical at various stages. It briefly familiarizes students with the role of nutrition in common elements.

Objectives: This course will enable to students to -

Understand the concept of an adequate diet and the importance of meal planning.
 Know the factors affecting the nutrient needs during the life cycle and the RDA-for

various age groups.

3. Grain knowledge about dietary management in common ailments.

THEORY

UNIT-I Definition of Health & Nutrition

Dimensions of Health (Physical, Psychological emotional & Spiritual)

Energy Requirements - Factors affecting energy requirements-BMR, Activity, age, climate, diet - induced thermogensis (SDA physiological conditions.

Concept of nutritionally adequate diet and meal planning
(a) Importance of meal planning

(b) Factors affecting meal planning-Mutritional, Socio-cultural, Religious, Geographic, Economic Availability of time.

II-TINU

Nutrition through the life cycle
(At different activity and Social economic levels) requirements, nutritional problems, food selection.

boodtlubA (a)

(b) Pregnancy (c) Lactation

(c) Lactation (d) Infancy

(d) intancy (e) Pre-School

(f) Adolescence (g) Old age

UNIT-III Principles of diet therapy

(A) Modification of normal diet for therapeutic purposes, full diet, soft diet, Fluid diet, Bland diet.

(B) France in the control of the con

(B) Energy modification and Nutrition for weight management- Identifying the overweight and obese etiological factors contributing to. Obesity Prevention & treatment, low energy diets.

(C) Under weight - etiology and assessment.

(D) High energy diet, Diet for febrile (fever) conditions & surgical condition.

Nutritional Anemia

(E) Fevers – Typhoid

86 =

Deputy Registrar Sant Gahira Guru Vishwavidyalaya Burguja, Ambikapur (C.G.)

T-IV

Etiology, Symptoms & diet management of the following -Diarrhea, Constipation, Peptic ulcer, Jaundice, Viral Hepatitis, Cirrhosis, musculoskeletal disease ,Arthritis, Gout.

UNIT-V

Diet in disease of the endocrine -

Pancreas - Diabetes mellitus - classification, symptoms, diagnosis, Dietary care & Nutritional, management of diabetes mellitus. Insulin therapy, Oral Hypoglycemic agents, special dietetic food, sweeteners & sugar substitutes, Diabetic coma, Juvenile Diabetes.

Diseases of the Cardio Vascular system -

Atherosclerosis Etiology & Risk Factors.

Hypertension - Etiology, prevalence Nutritional management & prevention.

Renal diseases - Etiology, characteristic, Symptoms & Dietary management of Glomerulonephritis- Acute & Chronic

REFERENCES:

1. Krause, M.V. and Mohan, L.K. 1986: Food, Nutrition and Diet Therapy, Alan R. Liss, Saunders Co., London.

 Passmore, R. and Davidson, S. 1986: Human Nutrition and Dietetics, Livingstone Publishers.

3. Robinson, OH., Laer, M.R. Chenoweth, W.L. Ganwick, A.E. 1986: Normal and Therapeutic Nutrition, MacMillan publishing Company, New York.

4. Williams, S.R. 1989: Nutrition and Diet Therapy, 4th Ed., C.V. Mosby Co.

5. Shils, M.E. Olson, J. A. Shike, M. Eds. 1994: Modern Nutrition in Health and Disease, 8th edn., Lea and Febiger a Waverly Company.

Group-II, Practical-A

- 1. Planning- Preparation of Normal and Therapeutic diet in relation to special and nutrient requirements (Any 15)
 - 1 Adult
 - 2 Pregnancy
 - 3 Lactation
 - 4 Constipation
 - 5 Diarrhea
 - 6 Obesity
 - 7 Underweight
 - 8 Peptic Ulcer
 - 9 Jaundice
 - 10 Viral Hepatitis
 - 11 Cirrhosis
 - 12 Acute glomerulenephritis
 - 13 Chronic glomerule nephritis
 - 14 Diabetes mellitus (using food exchange list)
 - (i) With Insulin
 - (ii) Without insulin
 - 15 Hypertension(Atherosclerosis)
 - 16 Anemia
- 2. Standardization of recipes

LEXLIFE AND FIBRE SCIENCE Paper - B Group -II B.Sc. (HOME-SCIENCE) PART II

M. Marks: 50

THEORY

1. Principles of laundry and its methods I-jinU

2. Equipment for washing:

Washing equipment

Drying equipment

Storage equipment Finishing equipment

3. Cleaning materials and Detergents:

Other cleaning agents Soap and detergent

of hardness 4. Water: Composition, Classification, Hardness of water, Methods of removal

II - tiaU

1. Useful suggestions for laundering

2. Washing of different kinds of fabrics: Cotton, wool, silk & synthetic

3. Bleach agents and other reagents used in laundry

Starch: types and uses

2. Blue: types and uses

1. Dry Cleaning III - iiaU

2. Stain removal: classification and technique of stain removal

3. Disinfection of cloths

4. Care and Storage of fabrics

5. Consumer problems and protections

VI - jinU

I. Equipment and supplies used in clothing construction:

Measuring equipment

Stitching equipment Cutting equipment

Finishing equipment

Selection of fabric for dress according to Climate, Age, Occupation, Personality, Occasion, Sewing machine: its parts & function, maintenance of machine, problems faced and remedies.

Mardrobe Planning

1. Tailoring V - Jim

Taking body measurement for different type of garments General Principles of clothing construction

- · Interrelationship Of Needles, Thread, Stitch Length, & Fabric
- Cloth Estimation For Different Garments
- Drafting & Draping
- 2. Pattern Making
 - General Instructions For Pattern Making
 - Method
 - Types & Layout
- 3. Fitting
 - Fundamentals Of Fitting
 - Problems Area In Fitting
 - · Factors Affecting Good Fit

Group-II, Practical-B

Printing - Block, screen, tie & die, stencil printing. -.

- 1. Stain Removal
- 2. Laundering of cotton, rayon silk wool & synthetics etc.
- 3. Bleaching & whitening
- 4. Starching
- 5. Care of household linen
- 6. Simple dyeing of different fabric.
- 7. Tie and Dye techniques
- 8. Batik
- 9. Finishing of fabric before dyeing & printing, Scoring, bleaching, Desizing.

REFERENCES:

Course: Introduction to Fashion Illustration

- 1. Tate, S.L., Edwards, M.S. 1987: The complete Book of Fashion Illustration, New York, Harper & Row Publications, 2nd Edn.
- 2. Allen, Anne & Seaman, Julian : Fashion drawing : basic principles, B.T. Batsford, London, 1993, 108p.
- 3. Barnes Colin: Fashion Illustration, Macdonald, 1988.
- 4. Chowdhry, Sonia: A Unique phenomenon: understanding the dynamics of fashion, Clothesline 11 (11) Nov. 1998 p. 75-77
- 5. Ewing, Elizabeth: History of twentieth century fashion, Elizabeth Ewing, London, 1974, XI, 300P.
- Ireland John Patrick 1976: Drawing and Designing Men's Wear, London B.T. Brandford Ltd.

SANT GAHIRA GURU VISHWAVIDYALAYA Hindi

Sarguja Ambikapur (C.G.)

CHOICE BASED CREDIT SYSTEM (CBCS)

Master of M.A. Hindi SYLLABUS

SEMESTER SYSTEM **SESSION 2018-19**



SANT GAHIRA GURU VISHWAVIDYALAYA For Affiliated Colleges of Ambikapur (C.G.) -497001



DEPARTMENT OF HINDI

M. A. in HINDI:

FACULTY OF ARTS

SECOND SEMESTER (EVEN SEMESTER)

Eligibility Criteria Qualifying Exams	Course Coos	Course Type	Course (Paper Subjects)	Credits		Cont Hou Pe Wee	irs ir	Dur	oSE atio (ra.)
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2 2	सुमित्रानदन पतः नाका ।	वेहार, ताज, भारतमाता, परिवर्त	
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UNIT-4 18 Hours			
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FACULTY OF ARTS

(EVEN SEMESTER) * FOURTH SEMESTER

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किम्मही एड्सम्भार – ठामिमाए , र क हिंदी साहित्य का वृष्टत इतिहास (सीलहर्षी नान) – नानरी प्रवारिको का

८ ्मारतीय लोक साहित्य – डॉ. कृष्णदेव वपाध्याय १ ्मारतीय लोक साहित्य – डॉ. कृष्णदेव वपाध्याय

ক্ষিত্র সাহিত্য : বিশ্বের প্রথ সাহিত্য । করিছে কাজি এ। ।।. কাজ সাহিত্য ক দানীয় ক ফরীন্য কাজি ।।

12. खडी बाबी का लोकसाहित्स – डॉ. सत्यापुरा 13. लोकबाती और लोकनीत – डॉ. सलोड

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HISTORY SANT GAHIRA GURU VISHWAVIDYALAYA

Sarguja Ambikapur (C.G.)

CHOICE BASED CREDIT SYSTEM (CBCS)

SYLLABUS M.A. HISTORY

SEMESTER SYSTEM SESSION 2018-19



Deputy Registrar Sant Gahira Guru Vishwavidyalaya Surguja, Ambikapur (C.G.)

For Affiliated Colleges of

SANT GAHIRA GURU VISHWAVIDYALAYA

Ambikapur (C.G.) -497001

MA HISTORY

Second Semester (CBCS)

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M.A. HISTORY

II SEMESTER

COURSE CODE: MAH 201

COURSE TYPE: CCC

COURSE TITLE: HISTORIOGRAPHY

THEORY: CREDIT: PRATICAL:

THEORY: HOURS:

PRATICAL:

JBJECTIVE: विद्यार्थियों में इतिहास लेखन के विविध आयामों 80+20 MARKS: THEORY: PRATICAL: THEORY: MARKS: PRATICAL:

UNIT-1 20Hours

ा समझ विकसित करना।

यूनानी एवं रोमन इतिहास लेखन चीनी इतिहास लेखन

मध्यकालीन यूरोपीय इतिहास लेखन प्रबुद्धवादी इतिहास लेखन

UNIT-2 20Hours

प्राचीन भारत में इतिहास लेखन अरबी तथा परशियन (फारसी) इतिहास लेखन

मध्यकालीन भारतीय इतिहास लेखन- मुगल काल UNIT-3 17Hours मध्यकालीन भारतीय इतिहास लेखन- सल्तनत काल

भारतीय इतिहास की साम्राज्यवादी व्याख्या भारतीय इतिहास की राष्ट्रवादी व्याख्या भारतीय इतिहास की मार्क्सवादी व्याख्या

भारतीय इतिहास की जनवादी व्याख्या

UNIT-4 17Hours

भारतीय इतिहास की विषयवस्तु– आर्थिक इतिहास भारतीय इतिहास की विषयवस्तु– सामाजिक एवं सांस्कृतिक

क्षेत्रीय इतिहास लेखन जातीय एवं जनजातीय इतिहास

M.A. HISTORY

Fourth Semester (CBCS)

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M.A. HISTORY

COURSE TYPE: CCC COURSE CODE: MAH 401

IV SEMESTER

COURSE TITLE: HISTORY OF INDIAN NATIONAL

MOVEMENT (1922 TO 1947 A.D.)

HOURS: PRATICAL: THEORY:

CREDIT

THEORY:

THEORY: PRATICAL: MARKS: PRATICAL:

THEORY:

80+20

MARKS:

BJECTIVE: भारतीय राष्ट्रीय आंदोलन के इतिहास से विद्यार्थियों अवगत कराना, स्वतंत्रता प्राप्ति के बाद साम्प्रदायिक राजनीति इतिहास से विद्यार्थियों को परिचित कराना।

UNIT-1 18/Hours

- 1. स्वराज्य दल
- 2. साइमन कमीशन का विरोध एवं नेहरू रिपोर्ट
- 3. सविनय अवज्ञा के समय भारत की राजनीतिक स्थिति
 - 4. सविनय अवज्ञा आंदोलन

UNIT-2 18/Hours

- गोलमेज सम्मेलन
- पूना समझौता एवं श्वेतपत्र
- प्रातीय स्वायत्ता का क्रियान्वयन
 - राजनीतिक गतिरोध 1940-45

UNIT-3 18/Hours

- क्रांतिकारी आंदोलन द्वितीय चरण
- भारतीय राजनीति में वामपंथी विचारधारा
 - कृषक एवं जनजातीय आंदोलन श्रमिक आंदोलन

13

POLITICAL SCIENCE SANT GAHIRA GURU VISHWAVIDYALAYA

Sarguja Ambikapur (C.G.)

CHOICE BASED CREDIT SYSTEM (CBCS)

SYLLABUS

M.A. POLITICAL SCIENCE

SEMESTER SYSTEM SESSION 2018-19



For Affiliated Colleges of

SANT GAHIRA GURU VISHWAVIDYALAYA

Ambikapur (C.G.) -49700

Reparty Registrat
Sant Gamia Guru V Invavidyalaya
Surguja, Ambikapur (1 G)

M. A. in POLITICAL SCIENCE (FIRST SEMESTER)

THEORY: 80 CCA:	MARKS: 100	THEORY: 06 THE	CREDIT: 06 HOURS:	COURSE TITLE: CONTEMPORARY DEBATES IN POLITICAL THEORY	COURSE CODE: MAP A03
20		THEORY: 90	JRS: 90	BATES IN POLITICAL THEORY	COURSE TYPE : ECC/CB

OBJECTIVE: The main objective to know about algebraic Equations, Simultaneous algebraic equations, Interpolations, Differentiation and Integration and Differential equations.

Syllabus of M.A. (Political science) for Regular Mode (CBCS

Pattern-2018)

M.A. (Political science) SECOND SEMESTER

		REVOLUTIONS	ECC/CB	MAP B03	
	6	POLITICAL TREORY	ECC/CB	MAP BOZ	seper
		ETHICS AND POLITICS	ECC/CB	MAP BOI	minter of
		DEVELOPMENT			d sury
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4 3	6	WESTERN POLITICAL THOUGHT	ccc	MAP 283	i sintantion
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a.	6	THEMES IN INDIAN POLITICAL	ccc	MAP 202	s the first
		PRINCIPLES AND APPROACHES		1	Shearing
4 3	6	ADMINISTRATIVE THEORY:	COC	MAP 201	liter.
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Week	Credits	Name of Papers	Course Type	Course	ritoria

Syllabus of M.A. (Political science) for Regular Mode (CBCS

Pattern-2018)

M.A. (Political science) FOURTH SEMESTER

COURSE TYPE : CCC

96 96

THEORY: HOURS:

100

80

THEORY MARKS

90

UNITED THE E. PRINCIPLES OF INTERNATIONAL POLITICS

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MAP 401

COUNTRY CODE

M. A. in POLITICAL SCIENCE (FOURTH SEMESTER)

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	Tenching Hours Per Week	Lecture	4	-	-	-		,	1
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	Realism, Idealism, Equitibrium, Decision Making, Game Theory	Disarmament: PTBT, NPT, CTBT and Other Weapon Proliferation	Regional Organisation: SAARC, ASEAN, OPEC, BRICS, IBSA Non-alignment in International Politics: Basics Role, Importance and	Cold War and End of Cold War: Causes and Result New Economic World Order (NEWO) North-South Dialogue, South-South County	UNO and its agencies Peace Keeping Role of UNO	Cryptography and Network Security By William Stallings, 4th Edition Pearson Publication Applied cryptography - protocols and algorithm By Buce Schneier.
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M.A.(Political Science) / SYLLABUS(CBCS)/SEMESTER - IV¹⁵

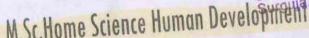
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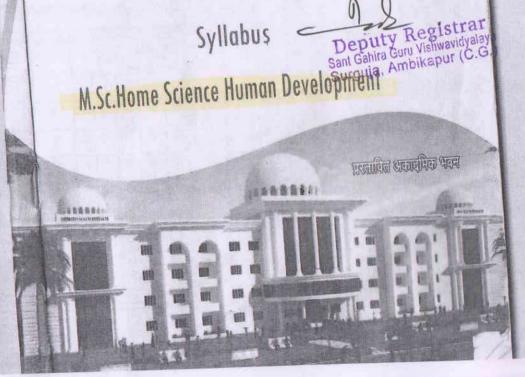


SANT GHIRA GURU VISHWAVIDYALAYA SARGUJA AMBIKAPUR (C.G.)



CHOICE BASED CREDIT SYSTEM (CBCS) 2018-19





Third Semester Structure Table

S. No.	Subject Code	Course Title	Course Type	Credit	Contact Hours Per week			EoSE Duratio (Hrs.	
19					L	τ	P	Thy	P
1.	ABC 301		ccc	6	4	2	0	3	0
2.	ABC 302	CIALA	ccc	6	4	2	0	3	0
3.	ABC 303	Clair of	CCC	6	4	2	0	3	0
4.	ABC SO2	A LE S	OSC	6	4	2	0	3	0
5.	ABC A03/B03/ C03/D03/ E03/F03		ECC	6	4	2	0	3	0
				30					I.

Fourth Semester Structure Table

S. No.	Subject Code	Course Title Course Credit Type		9	onta lou r w	rs	EoSE Duration (Hrs.)		
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1.	ABC 401	er was	ccc	6	4	2	0	3	0
2.	ABC 402		ccc	6	4	2	0	3	0
3.	ABC 403	1 Ac 0	ccc	6	4	2	0	3	0
4.	ABC 421	5 6 6 6 6	PRI/FST/	6	4	2	0	3	0
5.	ABC A04/B04/ C04/D04/ E04/F04		ECC	6	4	2	0	3	0
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Course Type Type Course Course Type Coc CCC CCC CCC CCC CCC CCC CCC CCC CCC	Credits Week	5 4 2	2 00 00	5 4 2	2 00 00	5 4 2	2 00 00	8.	6 4 3	
NAME OF TAXABLE PARTY.	Course (Paper/Subjects)	THEORIES OF HUMAN DEVELOPMANT	THEORIES OF HUMAN DEVELOPMENT- LABORATORY WORK	EARLY CHILDHOOD EDUCATION	EARLY CHILDHOOD EDUCATION-LABORATORY WORK	CURRENT TRENDS AND ISSUES IN HUMAN DEVELOPEMENT	CURRENT TRENDS AND ISSUES IN HUMAN DEVEL OPMENT-I ABORATORY WORK	RESEARCH METHODOLOGY & COMPUTER APPLICATION: BASICS	CONSTITUTIONALISM & INDIAN POLITICAL SYSTEM	WOMEN STUDIES
	Course	000	200	222	200	200	200	OSC	ECC/CB	
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ent List Description of Reservation Policy. The servation of Reservation Policy.	Admission Criteria		ay) A	pepp			1100		Tanca T iversity	Ent

M.Sc-Home Science/Syllabus/1st Semester

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Syllabus/1st Semester

P

SUGGESTED	UNIT-5-	UNIT-4-	UNIT-3-	UNIT-2-
READINGS	18 Hours	18-Hours	18 Hours	18 Hours
Astana (1974)Women's Movement in India. Vilkash Delhi. Antony,M.L.(1985).Women's Rights: Dialogue, New Delhi. Baker.H.ABertheide.G.W and Others(Eds)(1980).Women Today:Amulti disciplinary approach to Women's Studies. Brooks and Cole Publication.	Women Identity - Educational opportunities' and sex based education - Employment - Women politics - Legal status of women.	Problems and issues related to women in India Female mortality Female feticide, infanticide Socialization of girl child Dowry Violence Child marriage	Role of women in national development. Women in family and community: Demographic changes menarche, marriage, fertility, morbidity, mortality, life expectancy, sex ratio, aging, widowhood. Women in society: Women's role, their resources, and contribution to family	Understanding concepts related to gender differences from societal and developmental perspective. Patriarchy Caste, class culture and gender interface Gender and education Economic empowerment and gender Development processes and programs from women's perspective.

M. Sc. in HOME SCIENCE (HUMAN DEVELOPMENT)
SECOND SEMESTER (EVEN SEMESTER)

FACULTY OF SCIENCE

Eligibility Criteria	Course	Course	Course (Paper/Subjects)		Ho	ontact urs Pe VeeK		EoSE Duration (Hrs.)	
(Qualifying Exams)	Code	Туре			L	T	P	Thy	5
	HHD 201	ccc	ADOLESCENT PSYCHOLOGY	5	4	2	00	3	00
	HHD 211	CCC	ADOLESCENT PSYCHOLOGY- LABORATORY WORK	2	00	00	3	00	3
r examination arrear papers	HHD 202	CCC	MANAGEMENT AND PROJECT PLANNING	5	4	2	00	3	0
	HHD 212	CCC	MANAGEMENT AND PROJECT PLANNING-LABORATORY WORK	2	00	00	3	00	3
semes r of bac		CCC	NUTRITION FOR HEALTH OF WOMEN AND CHILDREN	5	4	2	00	3	0
ung in the First :	HHD 203	CCC	NUTRITION FOR HEALTH OF WOMEN AND CHILDREN- LABORATORY WORK	2	00	00	3	00	100
After appearing in the First semestic imaperdive of any number of back	HHD 221 HHD 801	PRJ/FST/EST ECC/CB	SOCIAL OUTREACH AND SKILL DEVELOPMENT ENVIRONMENTAL AND FOREST LAWS	6	4	3	9	3	0
After ap			CHILD AND HUMAN RIGHTS	TOTAL=					

-	SE CODE: MAS BO	COURSE TYPE : ECC/CB
	POLITICAL	
CREDIT THEOR 6		HOURS: THEORY: PRACTICAL
MARKS THEOR 80+20		MARKS THEORY: PRACTICAL
UNIT-1/ 18 Hours	briards the development of s	the and notify Contained and Deficiency
UNIT-2/ 18 Hours 1	Theoretical Approaches to the Post -modernist Mandst train	e State: Liberal, Pluralist, Power - elite. dition , Weberion Tradition , Discourse sociology
18 Hours	colonial state. State -civil so	n the nation state nature of post- ociety relationship Silent revolutation wements issuses of nation - building dass, gender and caste.

	M.A. SOCIOLO	OGY SE	COND SEM	ESTER
COURS	E CODE: MAS 805	-	COU	RSE TYPE : ECC/CB
	THEORETICAL PI	OURSE ERSPE	TITLE: 1 TIVES IN SO	CIOLOGY TELLICIPY.
THEORY 6	PRACTIC	CAL:	HOURS: THEORY: 90	PRACTICAL:
MARKS THEORY 80 • 20	PRACTIC	AL:	MARKS THEORY:	PRACTICAL
meaning scientific	IVE: To give a basic un and subject matter of so study. To know the nate on of early thinkers tow	ociology ure and	. To understar scope of socio	nd the nature of plogy. To study the
UNIT-11	Tribal Society as Agrar Characteristic b. Tribe			
UNIT-3/ 18 Hrs.	Social issues a. Migral	tion b. L	and Alienation	c Lass of Livelihood
UPT-3 18 Hrs.	Contemporary issuses Rural Women d. Inequ		th b Education	n c. Changing status of
UNITA 18 Hrs.	Peasant Movement a	Cause	s b. Types c. T	ebhaga d. Telengana
UNIT-S/	Naxite movement in C b. Causes c. Present response	Contemp I status	xorary India . a. ; Government	Ongin and affected a measures and the con-
Recommended	India 3 Desai, A.R. 1979 R 4	Rural So Peasan	arion structure dety in Transito it Struggle in Ind	and political Economic to

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PRINCIPAL Gévt. Girls College Ambikapur Distt.-Surguja (C.G.)

for	M.A. SOCIOLOGY F	OURTH SEMESTER
COURS	E CODE : MAS 402	COURSE TYPE : CCC
		ETITLE:
CREDIT: THEORY 5		HOURS: THEORY: PRACTICAL: 90
MARKS THEORY 80 + 20	The state of the s	MARKS THEORY: PRACTICAL
UNIT-11 19 Hours	Historical and Social Conte a Emergence of growth Moorings western Social	and scope of sociology • To study the he development of sociology. It of Emergence of Sociology in the West of Sociology in West b Eurocenthic ogy Tradition c Americanization of
UNIT-2/ 18 Hours 15	Central Themes in Compar	alive a Modernity and Development bism c. Environment d Globalization
UNIT.3/ 18 Hours	Theoretical Convern, s in theoring in sociology b. The sociology.	Comparative sociology in Problems of corelical and Methodological approach
18 Hours	Current Debates a Contr Native Coorgones d Cristi	extitualization b Indianization c. Use- cism
22	Department Tor Suidocyc	ofIndia* a Sociology of India

MACKEROLY IN AN VINCENTIA

M.A. SOCIOLOGY FOURTH SEMESTER COURSE TYPE : CCC COURSE CODE: MAS 403 COURSE TITLE: CRIMINOLOGY-II CREDIT HOURS THEORY THEORY PRACTICAL PRACTICAL: MARKS MARKS THEORY PRACTICAL THEORY: PRACTICAL 80 - 20 OBJECTIVE: To give a basic understanding of sociology. . To know the meaning and subject matter of sociology. . To understand the nature of scientific study. To know the nature and scope of sociology. To study the contribution of early thinkers lowards the development of sociology. Roots of Correction to prevent Crime a, Socialization b Family UNIT-11 13 Hours values o Role of education Correction and it's Forms in Meaning and Significance of Correction; Prison Based and Community Based b. Correctional Programmes in Prison History of Prison Reforms in India c. After care and Rehabilitation Programme Problem of Correctional Administration, a Overcrowding Lack of inter Agency Co-Ordination among Police Prosecution, Judiciary and Prison b Offerces a Problem of Cominal Justice Administration Victimologica Perspective a Victim's Responsibility in Crime b. Viciation of Prischer's furnan Rights ic Problems of Women Offenders: Community Policing a Concept and Objectives 25 bi Types d Significance

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PRINCIPAL
Gent Girls College Ambikebill

PRINCIPAL Gert Girls College Ambikapur Distt.-Surguja (C.G.)

UNIT-5/	New Social Movements a Dalit b. Women c. Ethnic d. Environmental
Recommended	1. Banks, J.A., 1972; The Sociology of Social Movements (London: Macmillan) 2. Desal, A.R., Ed., 1979; Peasant Struggles in India (Bornby: Oxford University Press) 3. Danagare, D.N., 1983; Peasant Movements in Indian 1920-1950 (Dethi: Oxford University Press. 4. Gore, M.S., 1993; The Social Context of an Ideology: Armedicar's Political and Social 5. Oomen, T.K., 1990: Protest and Change: Studies in Social Movements (Delhi: Sage).

MA (SOCIUMY)/ STCLABUSE LES

PART-4

Compulatory Paper Computer Paper Compulatory Paper Compulatory Paper Computer Paper	A.A. SUCIOLUGI P	M.A. SOCIOLOGI POSITION		-	a thousand Se	o Week	Eose Duration (Hrs.)	tion (Mrs.)	Merks	183
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M.A. SOCIOLOGY FOURTH SEMESTER COURSE CODE: MAS DOZ COURSE TYPE : ECC/CB COURSE TITLE: URBAN SOCIETY IN INDIA CREDIT: HOURS: THEORY: PRACTICAL: THEORY : PRACTICAL: 90 MARKS: MARKS THEORY: PRACTICAL: THEORY: PRACTICAL: 80+20 OBJECTIVE: To give a basic understanding of sociology.

To know the meaning and subject matter of sociology. . To understand the nature of scientific study. • To know the nature and scope of sociology. • To study the contribution of early thinkers towards the development of sociology. UNIT-1/ 18 Hours Classical sociological traditions as urban and city dimensions, Emile Durkahiem, Karl Marx, Max Weber and Tonnies. Urban sociology in India; Emerging trends in urbanisation, Factors of urbanisaton, sociological dimentions of urbanisation, Social consequences of urbanisation Classification of urban centres, cities and towns, City industrial urbanbase, its growth and special features, industry centered developments. Changing occupational structure, and its impact on social stratification - class, caste Gender, family Indian city and its growth. migration, problems of housing, slum development, urban environment problems, urban poverty. Urban planing and problems of urban management of India. Urban UNIT-SI 18 Hours institutions, Factors affecting planing, regional planing and the links between social and spatial theory

-	M.A. S	OCIOLOGY	FOURTH SEM	TE COMPANY
COL	IRSE CODE: M	AS 403		
	SOCIOLOGY OF		SETITLE:	OURSE TYPE
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contrib	ubon of early thinker	v the nature a	ind scope of socie	logy. • To know instand the nature blogy. • To study to
UNIT:11	Concepts, defini	rs lowards the	development of so	rstand the nature plogy. • To study to polelogy.
UNIT-2" UNIT-11 ST Hours 18 Hours	Concepts, defini	ions and Natu	development of so we of disasters.	ology, • To study to ociology,
UNIT-11 Supplies	Cancepts, definition Causes and Typ wars, industrial di	is lowards the lions and Natu es of Disaste sasters, nucle	development of so we of disasters.	plogy. To study to booking.
UNIT-2' UNIT-11 ST 18 Hours 18 Hours	Cancepts, definit Causes and Typ wars, industrial d The offects and a	is lowards the lions and Natures of Disaste isasters, nucle	development of so are of disasters. rs Floods, earth ar disasters, asters victims and	plogy. To study to booking.

MAJORDINOS, SYLABOSICKES/SCHESTER - IV

HA(SOCILOGY)/ SYLLABUSICECS//SEMESTES IN

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PRINTEIPAL
GINS College Ambikapul
Distr.-Surgula (C.G.)

M.A. SOCIOLOGY SECOND SEMESTER COURSE CODE: MASBOI COURSE TYPE: ECC/CB COURSE TITLE: ENVIRONMENTAL AND FOREST LAWS CREDIT: 06 HOURS : 90 THEORY: 06 THEORY: 90 MARKS: 100 THEORY: 80 OBJECTIVE: - Understands the concept and place of research in concerned subject Gets acquainted with various resources for research - Becomes familiar with various tools of research Gets conversant with sampling techniques, methods of research and Achieves skills in various research writings Gets acquainted with computer Fundamentals and Office Software Package ENOLUTION OF FOREST AND WILD LIFE LAWS a) Importance of Forest and Wildlife b) Evolution of Forest and Wild Life Laws c) Forest Policy during British Regime d) Forest Policies after Independence e) Methods of Forest and Wildelile Conservation. FOREST PROTECTION AND LAW a) Indian Forest Act 1927 b) Forest Conservation Act, 1980 & Rules therein c) Rights of Forest Dwellers and Tribal d) The Forest Rights Act, 2006 e) National Forest Policy 1988

CHAPTER - BASIC CONCEPTS a- Meaning and definition of environment b- Multidisciplinary nature of environment c- Concept of ecology and ecosystem d-Importance of environment e-Meaning and types of environmental polllution f- Factors responsible for environmental degradation. CHAPTER - INTRODUCTION TO LEGAL SYSTEM a- Acts, Rules, Policies, Not Scation, circulars etc. b- Constitutional provision on Environment Protection c- Judicial review, precedents CHAPTER- LEGISLATIVE FRAMEWORK FOR POLULUTION CONTROL LAWS a) Air Pollution an Law b) Water Pollution and Law c) Noise Pollution an Law. CHAPTER- LEGISLATIVE FRAMEWORK FOR ENVIRONMENT PROJECT a) Environment Protection Act & rules there under b Hazardous Waste and Law c) Principles of strict and absolute trability d) Public Liability Insurance Act e) Environment Impact Assesment Regulation in india CHAPTER- ENVIORNMENTAL CONSTITUTIONALISM a Fundamental Rights and Envisionment a Right to Equality ii) Right to Information Article 19 Foght to Life - Article21 IV) Freedom of Trude visita vis Envior The Forty -second Amendment Act Directive Protopiles of state Policy &F. 1999

MARKIERCYTO DELANO COO RECTOR - II

Judicial Activism and PIL

MA (SOCILOGY) SYLLABUS (CRCS) SEMESTER II

WILDLIFE PROTECTION AND LAW

b) Wild Life Conservation strategy and Projects

a) Wild Life Protection Act, 1972

c) The National Zoo Policy

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PRINCIPAL Glat Girls College Ambikapur Distt.-Surguja (C.G.)

COURS	M.A. SOCIOLOG SE CODE : MASIO3	-	
	111 - CO	ORSE TITLE : ANGE IN INDIA	OURSE TYPE : CC
CREDIT THEORY 6		HOURS THEORY:	PRACTICAL :
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MARKS THEORY 80+20		MARKS THEORY:	PRACTICAL
ag	ic study. • To know the naturation of early thinkers towards. Conceptual and Theoretical. a. Concept. b. Forms. c. Linear Theory. d. Cyclic Theory.	the development of	sociology
	Factors of Social Change a Techno-Economic b Socia-Psychological c Cultural and Redigious d Media		
	Trends and Processes of Ch a. Sanskritzation b. Secularization c. Gandhian d. Giobalization	ange in Modern In	dia
	Change in Urban and Indust a. In Migration and Growth of a b. Development of Slums c. Development of Cominal Ac d. Weitare measures and Con-	formal sector.	

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1.00	M.A. SOCIOLOGY	COUR	SE TYPE : ECC/CI
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MARI THEO 80+2	PRACTICAL:	MARKS THEORY:	PRACTICAL:
mean scient	ECTIVE: To give a basic under ing and subject matter of sociolitic study. • To know the nature a button of early thinkers towards the 1. Gender in Sociological Analysta. Approaches to the Study of b. Gender Shutters	ology. • To under and scope of social development of s sis:	rstand the nature of ology. • To study the ociology.
	Biology and Culture Concepts of Male and Ferce. Life Cycle	Ideology:	and Theory
THE STATE OF THE S	Family, Work and Property a. Production and Reproduct b. Work and Property c. Family and Household	tion	
	4. The Polities of Gender		Subordination

HA (SOCILOGY)/ SYLLABUS(CIRCS), SEMESTER - 1

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PRINCIPAL
Gávi. Girls College Ambikanur
Distt. - Surguja (C.G.)

M.A. SOCIOLOGY THIRD SEMESTER

COURSE CODE : MASS 02

COURSE TYPE : OSC

COURSE TITLE: INTELLECTUAL, PROPERTY RIGHTS, HUMAN RIGHTS & ENVIRONMENT: BASICS

CREDIT: 06

HOURS : 90

THEORY: 06

THEORY: 90

OBJECTIVE:

Understands the concept and place of research in concerned subject Gets acquainted with various resources for research Becomes familiar with various tools of research Gets conversant with sampling techniques, methods of research and techniques of analysis of data

- Patents :- Introduction & concepts, Historical Overview.
- Subject matter of patent.
- Kinds of Patents.
- Development of Law of Patents through international treaties and conventions including TRIPS Agreement.
- Procedure for grant of patents & term of Patient.
- Surrender, revocation and restoration of patent.
- Rights and obligations of Patentee
- Grant of compulsory licenses
- Infringement of Patent and legal remedies
- Offences and penalties
- Discussion on leading cases.

Meaning of Copyright, Historical Evolution, Subject matter of copyright Literary works Dramatic Works & Musical Works Computer Programme Cinematographic films Registration of Copyrights Term of Copyrights and Ownership of Copyrights Neighboring Rights

Rights of Performers & Broadcasters

Assignment of Copyrights

Author's Special Rights (Moral Rights) Infringement of Copyrights and defenses Remedies against infringement (Jurisdiction of Courts and penalties) International Conventions including TRIPS Agreement WIPO; UCC. Paris Union, Berne Convention, UNESCO. Discussion on leading cases.

Rights Meaning Human Rights - Meaning & Essentials Human Rights Kinds Rights related to Life, Liberry, Equals & Disable

- National Human Rights Commission
- State Human Rights Commission
- High Court
- Regional Court
- Procedure & Functions of High & Regional Court.

- Right to Environment us Human Right
- International Humanitarian Law and Environment
- **Environment and Conflict Management**
- Introduction to Sustainable Development and Environment Sustainable Development and Environmental Governance

HA/SOCILOGY// SYLLABOAR DICTI/SEMESTER - III

COURSE TYPE : OSC

COURSE TITLE: INTELLECTUAL, PROPERTY RIGHTS, HUMAN RIGHTS & ENVIRONMENT: BASICS

CREDIT: 06

HOURS : 90

THEORY: 06

THEORY: 90

OBJECTIVE:

Understands the concept and place of research in concerned subject Gets acquainted with various resources for research Becomes familiar with various tools of research Gets conversant with sampling techniques, methods of research and techniques of analysis of data

- · Patents :- Introduction & concepts, Historical Overview.
- Subject matter of patent.
- Kinds of Patents.
- Development of Law of Patents through international treaties and conventions including TRIPS Agreement.
- Procedure for grant of patents & term of Patient.
- Surrender, revocation and restoration of patent.
- Rights and obligations of Patentee
- Grant of compulsory licenses
- · Intringement of Patent and legal remedies
- Offences and penalties
- Discussion on leading cases.

Meaning of Copyright, Historical Evolution, Subject matter of copyright Literaryworks Dramatic Works & Musical Works

Computer Programme
Cinematographic films

Registration of Copyrights

Term of Copyrights and Ownership of Copyrights

Neighboring Rights

Rights of Performers & Broadcasters

Assignment of Copyrights

Author's Special Rights (Moral Rights)
Infringement of Copyrights and defenses
Remedies against infringement (Jurisdiction of Courts and penalties)
International Conventions including TRIPS Agreement WIPO, UCC,
Paris Union, Berne Convention, UNESCO.

Discussion on leading cases.

Rights: Meaning Human Rights - Meaning & Essentials Human Rights Kinds

Rights related to Life, Liberty, Equals & Disable

· National Human Rights Commission

- State Human Rights Commission
- High Court
- Regional Court
- Procedure & Functions of High & Regional Court.

Right to Environment as Human Right

- International Humanitanan Law and Environment
- Environment and Conflict Management
- Introduction to Sustainable Development and Environment
 Sustainable Development and Environmental Governance

MA(SOCILOGY)/ SYLLABAS(CRES)/SEMISTER + HI

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PRINCIPAL
CAR. Girls College Antokapu
Diett.-Surgula (C.G.)

IND SEMESTER M.Sc (BOTANY) COURSE TYPE: ECC/CB COURSE CODE: MBTB 02 COURSE TITLE: SYSTEMATICS, EVOLUTION AND ENVIRONMEN TAL SCIENCE CREDIT:6 THEORY:90 PRACTICAL:0 PRACTICAL: 00 THEORY: 6 MARKS THEORY: 100 (20+80) PRACTICAL:00 OBJECTIVE: This course is aimed towards generating fundamental knowledge, concepts and dimensions of Botany/Plant Science. Systematics and Evolutionary Biology: History of developments in taxonomy Linnaean to post-UNIT-1-Linnaean era; Systematics - concepts and components; Botanical Nomenclature 18 Hours Evolutionary ecologyconcepts and principles; Microevolution - theory and concepts; Species and speciation: Phylogenetic systematics; Macroevolution - inferring phylogenies; Diversity and UNIT-2classification of flowering plants; Taxonomic evidence - structural and biochemical 18Hours Molecular systematics; Diversity and classification of flowering plants; Biological diversity-concepts and UNIT-3applications; Diversity-patterns, indices and applications. 18 Hours Environmental Science: Introduction to Environmental Science and Sustainability, UNIT-4-Environmental laws, Ecosystems and living organisms, 18Hours Major ecosystems of the world and India, Human health and environmental change, Population issues, the search for fuels, natural resources and their management, applications of UNIT-5 18Hours GIS and RS technology

in environmental studies, the future of planet earth.

PRINCIPAL
Gev. Girls College Ambikapur
Distt.-Surguja (C.G.)

M.Sc (BOTANY) IIIRD SEMESTER COURSE CODE: MBT302 COURSE TYPE:CCC COURSE TITLE: PRINCIPLES OF ECOLOGY CREDIT:7 HOURS:135 THEORY: 5 PRACTICAL:2 THEORY:90 PRACTICAL: 45 MARKS THEORY: 100 (20+80) PRACTICAL:33 OBJECTIVE: This course is aimed towards generating fundamental knowledge, concepts and dimensions of Botany/ Plant Science Introduction to ecology, evolutionary ecology, environmental concepts, UNIT-1-Population ecology - characters of polulation, population growth, population dynamics 18 Hours life forms, age structure, fertility, growth curves, eades and ecotypes. Nature of ecosystem, structure, component, productivity, food chain, food web, energy UNIT-2flow through ecosystem. Biogeochemical cycles - Carbon cycle, nitrogen cycle, phosphorus cycle, Sulpher. 18Hours Ecosystem management, Community Ecology Environmental Stresses and their management, Global climatic pattern and variations UNIT-3overtime. 18 Hours Global climatic changes, Global warming, acid rain and Nitrogen deposition. Ecological succession - Types, mechanism, changes envolved in succession, concept of climax. Biodiversity & Conservation, concept and levels, distribution and global patterns UNIT-4 biodiversity act of India and related international conventions. Phytogeography, 18Hours behavioral ecology, molecular ecology. Environmental pollution air, water, soil pollution, use of fertilizer, pestisides and other UNIT-5-18Hours chemicals in agriculture. Industrial pollution and impact of chemical on Biodiversity of microbes animals and

plants.

Seed and seedling ecology.

PRINCIPAL
Gevt.Girls College Ambikapur
Distt.-Surguja (C.G.)

M.Se (BC	TANY)				Inco
COURSE	CODE: MBTE	B 01			COURSE
4 11		COURSE TITLE: F	OREST AND ENVIR	ONMENTAL LAW	COURSE TYPE E
CREDIT:	06			HOURS:	90
THEORY:	06			THEORY:	90
MARKS: THEORY:	100 80	CCA: 20			-
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NIT - 1 8 Hrs	b) Evo	portance of Forest and Vicest Policy during Britis	Vild Life Laws sh Regime		
		est Policies after Inde thods of Forest and W		n.	
		T PROTECTION AN	DLAW		
NIT-2		an Forest Act, 1927 est Conservation Act,	1980 & Rules then	ein	
Hrs		hts of Forest Dwellers		Salaria Sala	
	200	Forest Rights Act, 20			
		onal Forest Policy 19	C. STATE OF COLUMN		
WE A		FE PROTECTION AN			
NIT-3	a) Wild	Life Protection Act, 1	9/2 ategy and Projects		
		Life Conservation str. National Zoo Policy	alegy and Projects	A Lar	
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	THE RESERVE OF THE PARTY.	ER - BASIC CONCE ning and definition of	No. of the last of	The second	
		idisciplinary nature of			
NIT -4	c. Cond	cept of ecology and ec	osystem	1 1 2	Acceptant to the
Hrs	d. Impo	ortance of environment ning and types of envir	ronmental pollution		THE OWNER.
	e. Mear	ors responsible for env	rironmental degrad	lation,	
		R-INTRODUCTION	Contract to the Contract of th	the state of the state of the	
		Rules, Policies, Notific			
	b. Cons	stitutional provisions or	Environment Prot	ection	
	e ludio	cial review, precedents		THE PARTY OF THE P	STATE OF THE PARTY

c. Judicial review, precedents
d. Writ petitions, PIL and Judicial Activism

PRINCIPAL
Govt. Gins College Ambikapur
Pistr.-Surguja (C.S.)

CHAPTER - LEGISLATIVE FRAMEWORK FOR POLLUTION CONTROL LAWS

- a) Air Pollution and Law.
- b) Water Pollution and Law.
- c) Noise Pollution and Law.

CHAPTER- LEGISLATIVE FRAMEWORK FOR ENVIRONMENT PROTECTION

- a) Environment Protection Act & rules there under
- b) Hazardous Waste and Law
- c) Principles of Strict and absolute Liability.
- d) Public Liability Insurance Act
- e) Environment Impact Assessment Regulations in India

CHAPTER - ENVIRONMENTAL CONSTITUTIONALISM

- a. Fundamental Rights and Environment
 - i) Right to EqualityArticle 14
 - ii) Right to InformationArticle 19
 - iii) Right to LifeArticle 21
 - iv) Freedom of Trade vis-à-vis Environment Protection
- b. The Forty-Second Amendment Act
- Directive Principles of State Policy & Fundamental Duties
- d. Judicial Activism and PIL

Bharucha, Erach. Text Book of Environmental Studies. Hyderabad : University Press (India) Private

limited, 2005.

Doabia, T. S. Environmental and Pollution Laws in India. New Delhi: Wadhwa and Company, 2005.

Joseph, Benny. Environmental Studies, New Delhi: Tata McGraw-Hill Publishing

Company Limited, 2006.

Khan. I. A, Text Book of Environmental Laws. Allahabad: Central Law Agency, 2002.

Leelakrishnan, P. Environmental Law Case Book. 2nd Edition. New Delhi: LexisNexis

Butterworths, 2006.

Shastri, S. C (ed). Human Rights, Development and Environmental Law, An Anthology. Jaipur: Bharat law

Publications, 2006.

Environmental Pollution by Asthana and Asthana, S, Chand Publication

Environmental Science by Dr. S.R.Myneni, Asia law House

Gurdip Singh, Environmental Law in India (2005) Macmillan.

Shyam Diwan and Armin Rosencranz, Environmental Law and Policy in India -

Cases, Materials and Statutes (2nd ed., 2001) Oxford University Press.

JOURNALS :-

Journal of Indian Law Institute, ILI New Delhi. Journal of Environmental Law, NLSIU, Bangalore.

UNIT-5 18 Hrs

SUGGES TED READIN GS.

MATHEMATICS SANT GAHIRA GURU VISHWAVIDYALAYA

Sarguja Ambikapur (C.G.)

CHOICE BASED CREDIT SYSTEM (CBCS)

SYLLABUS

M.Sc. MATHEMATICS

SEMESTER SYSTEM SESSION 2018-19



For Affiliated Colleges of SANT GAHIRA GURU VISHWAVIDYALAYA

Ambikapur (C.G.) -497001

M.Sc. (Mathematics) SECOND SEMESTE DURSE CODE:MSM201

II SEMESTER COURSE TYPE: CCC

ADV	io	EoS utat	-	ntac ours Wee	Н	Credits	Course (Paper/Subjects)	Course Type	Course Code
MARKS:	-33	-	P	T	L				
THEORY 100 (ı	3	0	3	4	6	Advanced Abstract Algebra (II)	ccc	MSM 201
unit 1- 18 Hrs		3	0	3	4	6	Real Analysis (II)		MSM 202
dortherian and		3	0	3	4	6	Topology (II)	CCC	MSM 203
July 2- 18 Hrs	-	0	9	0	0	6	Social Outreach And Skill Development	osc	MSM S02
rield theory - extensions , S		1		1			Advanced Discrete Mathematics (II)	ECC/CB	MSM B01
Unit 3-18 Hrs of Normal exten	0	3	0	3	4	6	Algebraic Number Theory	ECC/CB	MSM B02
Primitive Elen	0						Complex Analysis (II)	ECC/CB	MSM B03
Unit 4- 18 Hr Gallos Field a Gallos theory	Management of the last of the		1			TO TAL =30	IN INDIVIDUAL SUBJECT PLETE SEMESTER IT LD BE 30	D IN COM	MINIMUM (IS 6 AN
Unit 5- 18 H	-					*			-

COURSE TITLE

ANCED ABSTRACT ALGEBRA - II

HOURS: PRACTICAL: 0 THEORY: 90 ACTICAL: 0 MARKS:

THEORY: 80 (08+0)

PRACTICAL: 0

Artinian rings and Modules, Rings - Hilbert wedderburn Artin theorem, uniform Modules s , Noether - Lasker theorem.

xtension fields, Algebraic and transcendental parable and inseparable extensions.

ions , Splitting field - perfect fields , Finite field, ents, Algebraically closed fields, s of extensions.

nd extensions, Fundamental theorem of Solution of polynomial equations by radicals.

Involvability of the general equation of degree 5 by radicals, Rational Canonical form, Generalised Jordan form over any field.

BUGGESTED READINGS

- 1 P.B. Bhattacharya, S.K. Jain. S.R. Nagpaul: Basic Abstract Algebra, Cambridge University press.
- IN Herstein: Topics in Algebra- Wiley Eastern Ltd.

M.Sc. (Wathernatics) FOURTHSEVESTER

no

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Course Code	Course Type	Course (Paper/ Subjects)	Contact Hours perWeek LTP		S	Duration (Hrs.)		
			0	L	T	P	Thy	P
MSM401	∞	Integration Theory and Functional Analysis (II)	6	4	3	0	3	0
M5M402	∞	Partial Differential Equitions & Mechanics (II)	6	4	3	0	3	0
MSM403	coc	Operations Research (II)	6	4	3	0	3	0
MSM421	CSC	Dissertation	6	0	0	9	0	4
	ECC/CB	Numerical Analysis (II)						
		Mathematical Modeling			3			
MEMILOS	ECC/CE	Number Theory and Cryptography	6	4		0	3	0
NEMD04	ECC/CE	Fuzzy Sets and their Application- li	0	7				ľ
MSMID05	ECC/CE	Computer Fundamental and Programming in C-II						
	MDINO	TS IN INDIVIDUAL SUBJECT COMPLETE SEVESTERIT COULD BE 30	TO TAL =30	1				

M.Sc. (MATHEMATICS)
COURSE CODE:MSM 401

IV SEMESTER COURSE TYPE: CCC

COURSE TITLE:

INTEGRATION THEORY AND FUNCTIONAL ANALYSIS II

CREDIT:

HOURS:

THEORY: 6 PRACTICAL: 0

THEORY: 90 PRACTICAL: 0

MARKS:

THEORY: 100(20+80)

PRACTICAL: 0

UNIT -1 18 HOURS

Uniform boundedness theorem and some of its consequences. open mapping and closed graph theorems.

UNIT -2 18 HOURS

Hahn-Banach theorem for real linear spaces, complex linear spaces and normed linear spaces. Reflexive spaces. weak sequential compactness. Compact operators. Solvability of linear equations in Banach spices. The closed Range Theorem.

UNIT -3 18 HOURS

Inner product spaces. Hilbert spaces. Orthonormal sets. Bessel's inequality. Complete orthonormal sets and parseval's identity.

UNIT -4 18 HOURS

Structure of Hilebert spaces. Projection theorem. Riesz representation theorem. adjoint of an operator on a Hielbert spaces. Reflexivity of Hielbert spaces.

UNIT -5 18 HOURS

Self-adjoint operators, Positive, projection, normal and unitary operators. Abstract variational boundry-value problem, the generalized lax-Milgram theorem.

SOCIOLOGY SANT GAHIRA GURU VISHWAVIDYALAYA

Sarguja Ambikapur (C.G.)

CHOICE BASED CREDIT SYSTEM (CBCS)

SYLLABUS M.A. SOCIOLOGY

SEMESTER SYSTEM SESSION 2018-19



For Affiliated Colleges of SANT GAHIRA GURU VISHWAVIDYALAYA Ambikapur (C.G.) -497001

IESTER	COURSE TYPE : CCC	VKERS	PRACTICAL:	PRACTICAL:	THE CITY TO give a basic understanding of sociology. To know the meaning must subject multer of sociology. To understand the nature of scientific study. To may the mature and scope of sociology. To study the contribution of early unless towards the development of sociology.	Auguste Comile- positivion, Englightement and Conservative Reaction; contribution to the subject matter of sociology; social static and social synamics.	Emile Durkheim: Division of Labour in the Capitalist Society, Mechanical and Organic solidarities, Theory of suicide; Theory of Religion: Sacred and Profane. Contribution to the methodology of Sociology: Concept of Soci	Karl Marx: Marx's Theory of Social Change; Dialectical Materialism as a Perspective of Explaining Transformation of Human Society through Different Stages; Theory of Capitalist Development, Class and Class Conflict, Allenation and its Social Implications.	Max weber :Theory of Social Action and its types; Analysis of modern capitalism; Protestant ethics and spirit of capitalism; Power, Status and Authority : Authority and its types, Theory of Bureaucracy. Contribution to the Methodology of Social Science: Value Neutrality and ideal types
ECOND SEM		SE TITLE: OGICAL THIP	HOURS: THEORY: 90	MARKS THEORY:	ding of sociologestand the nating. To study siology.	ghtement and ar of sociology	ur in the Capit of suicide; The methodology o	tal Change; Di sformation of pitalist Develo Implications.	tion and its tyres spirit of capits. Theory of Bure
M.A. SOCIOLOGY SECOND SEMESTER	1 MAS201	CLASSICAL SOCIOLOGICAL THINKERS	PRACTICAL:	PRACTICAL:	HELECTIVE: To give a basic understanding of multiplication of sociology. To understanding of multiple and scope of sociology. Transmitted towards the development of sociology.	vrile- positivion,Englis 1 to the subject matte	neim: Division of Labo c solidarities; Theory e. Contribution to the	Karl Marx: Marx's Theory of Social Change; I Perspective of Explaining Transformation o Different Stages; Theory of Capitalist Devel Conflict, Allenation and its Social Implications	Max weber :Theory of Social Action and its types; Analysis of mocapitalism; Protestant ethics and spirit of capitalism; Power,Status Authority:Authority and its types, Theory of Bureaucracy. Contributing the Methodology of Social Science: Value Neutrality and Ideal types
M	DURSE CODE : MAS201	OTEN, ST	HEDIT:	ARKS. HIGHY: 0+20	LECTIVE: To go the state of the nature of the nature of the nature of the state of	Auguste Co Contribution Dynamics.	Emile Durkt and Organi and Profane Social Fact.	Karl Marx: Perspectiv Different S Conflict, Al	Max weber capitalism; Authority: A the Method

MA SOCIOLOGY SECOND

Course Code	Course Type	Course Type Compulsory paper Compulsory paper Compulsory paper Compulsory paper		er Week	eek Eose Duration (Hrs.)		Marks			
				. 1					SEE	IA
MAS 101	ccc	CLASSICAL SOCIOLOGICAL	-	-	-	P	Thy	P		
	CCC	TRADITION	6	4	3	00	3	0	70	30
MAS102	ccc	SOCIAL ANTHROPOLOGY	6	4	3	00	3	0	70	- 20
MAS103	ccc	SOCIAL CHANGE INONDIA							70	30
707000000		SOCIAL CHANGE INUNDIA	6	4	3	00	3	0	70	3
MAS111	ccc	FIELD WORK	6	00	00	08	0	3	100	00
		OPTIONAL PAPER							200	W
MAS02	ECC/CB	GENDER AND SOCIETY	6	4	3				-	4
MASA05	Posten				3	00	3	00	70	00
MINJEUS	ECC/CB	URBAN SOCIOLOGY	6	4	3	00	3	00	70	00

Reco	nmen	ded		UNIT-5/ 18 Hours
Amvedkar's Political and Social 5. Oomen, T.K., 1990 : Protest and Change : Studies in Social Movements (Delhi : Sage).	Danagare, D.N., 1983; Peasant Movements In Indian 1920- 1950 (Delhi : Oxford University Press. Gore, M.S., 1993; The Social Context of an ideology :	Desal, A.R., Ed., 1979; Peasant Struggles in India (Bornby: Oxford University Press)	1. Banks, J.A., 1972; The Sociology of Social Movements/London	New Social Movements: a. Dalit: b. Women: c. Ethnic d. Environmental

PART-4

M.A. SOCIOLOGY FOURTH SEMESTER (CBCS)

Course Code	Course Type	Course(Paper /Subjects)	Credits	Contact Hours Per Week			Eose Dura	Ma	arks	
									SEE	IA
				L	T	Р	Thy	Р		
		Compulsory paper		L	T	Р	Thy	Р		
MAS 401	ccc	MODERN SOCIOLOGICAL THEORY	6	4	3	00	3	0	70	31
MAS 402	occ	COMPARATIVE SOCIOLOGY	6	4	3	00	3	0	70	3
MAS 303	ccc	CRIMINOLOGY-II	6	4	3	00	3	0	70	31
MAS 304	PRJ/SSC	DISSERTATION	6	4	3	00	3	0	70	30
	100	OPTIONAL PAPER								
MASD01	EGG/GB	URBAN SOCIETY IN INDIA	6	4	3	00	3	0	70	30
MAD02	ECC/CB	SOCIOLOGY OF DISASTER MGT. AND DISASTER PLANNING	6	4	3	00	3	0	70	30
	140mm	September 1 property								

सरगुजा विश्वविद्यालय अम्बिकापुर (सरगुजा–छ.ग.)

(छ.ग. विश्वविद्यालय अधिनियम क्र. 18/2008 द्वारा स्थापित व निगमित)



BACHELAR OF COMPUTER APPLICATION (BCA)
DIPLOMA IN COMPUTER APPLICATION (DCA)

POST GRADUATE DIPLOMA IN COMPUTER APPLICATION (PGDCA)

परीक्षा वर्ष : 2011

कुलसचिव सरगुजा विश्वविद्यालय, अम्बिकापुर छत्तीसगढ

S. K. Gupta Asstt. Professor (Maths) Govt. RMD. Girls P. G. College Ambikapur, Distt.-Surguja (C.G.)

मूल्य : 30/-

- no

Deputy Registrar Sati Gahlra Gutu Vishwavidyalaya Surguja, Ambikapur (C.G.)

POST GRADUATE DIPLOMA IN COMPUTER APPLICATION, 2010-2011 [DURATION - ONE YEAR - FULL TIME]

The duration of the course shall be one year consisting of two semesters. There shall be three theories and two practical courses in the each semester. There shall be grading system of awards.

FIRST SEMESTER

PGDCA : Introduction to software organization.

PGDCA : Programming in "C" & "C++".

PGDCA : DBMS (SQL/Oracle).

INTRODUCTION TO SOFTWARE ORGANISATION

1. Introduction to Computers

Computers - Introduction, Computer System Characteristics, Strength and Limitations of Computer, Development of Computers, Types of Computers, Generations of Computers.

Introduction to Personnel Computers – Uses of PC's, Components of PC's, Evolution of PC's, Developments of Processors, Architecture of Pentium IV, Configuration of PC's; Input Device; Output Devices.

2. Computer Organization

Central Processing Unit - Arithmetic Logic Unit, Control Unit, Registers, Instruction Set, Processor speed.

Storage Devices - Storage and its need, Storage Evaluation Units, Primary Storage, Secondary Storage, Data Storage and Retrieval Systems, SIMM, DIMM, Types of Storage Devices.

3. Computer Software

Basics of Software – needs of Software, Types of Software; Free Domain Software; Open Source Software; Compiler, Interpreter and Assembler; Linker and Loader; Debugger; Integrated Development Environment;

Operating System - Introduction, Uses of OS, Functions of OS, Booting process, Types of Reboot, Booting from different OS, Types of OS, DOS, Windows, Linux.

Programming Languages – Introduction, Comparison between Human and Computer Language; Program; Data, Information and Knowledge; Characteristics of Information; Types of Programming Languages; Generations of Languages; Program Development Steps; Programming Paradigms; Object-Oriented Programming; Structured Programming, Functional Programming, Process Oriented Programming.

4. Communication, Networks and Internet

Communication – Introduction, Communication process, Communication Types, Communication Protocols, Communication Channels/Media.

Networks - Introduction; Types of Network; Topology; Media - NIC, NOS, Bridges, HUB, Routers, Gateways.

Internet – Introduction, Growth off Internet, Owner of Internet, Internet Service Provider, Anatomy of Internet, ARPANET and Internet History of World Wide Web, Services Available on Internet - File Transfer Protocol, Gopher, E-mail, Telnet, Newsgroups, WWW, Archie, Whols, WAIS, Veronica, Internet Relay Chat, Basic Internet Terminologies, Net Etiquette, Applications of Internet. Applications of Computers and Information Technology.

5. Linux

Open source Software concept and evolution of Linux; Features of Multi-User Operating System; Structure of Linux OS; Security Features of Linux, File System, Directory Structure and related commands. Linux Editors & editor commands, Linux commands cd, md, rm, mv, cp, ls, cat, find, grep.

BCA, DCA & PGDCA

- Mastering in C++
- Venugopal
- 4. Let us C ++
- Yashwant Kanitkar

DBMS (SQL/Oracle)

- Introduction To DBMS: -Purpose of database systems, views of data, Data Modeling, Database Languages, Transaction Management, Storage Management, Database Administrator and User, Database System Structure.
- E-R Model: Basic concepts, Constraints, Keys, Mapping Constraint, E-R Diagram, Weak 2. and Strong Entity sets, E-R Database Schema, Reduction of an E-R Schema to Table.
- Relational Model: Structure to Relational Database, Relational Algebra, The Domain 3. Relational Calculus, Extended Relational- Algebra Operation, Modification of database,
- Relational Database Design: Pitfalls in Relational Database Design, Decomposition, 4. Functional Dependencies, Normalization: 1NF, 2NF, BCNF, 3NF, 4NF, 5NF.
- Introduction to RDBMS Software Oracle
 - 5.1 Introduction: Introduction to personnel and Enterprises Oracle, Data Types, Commercial Query Language, SQL, SQL* PLUS.
 - 5.2 DDL and DML: Creating Table, Specify Integrity Constraint, Modifying Existing Table, Dropping Table, Inserting, Deleting and Updating Rows in as Table, Where Clause, Operators, ORDER BY, GROUP Function, SQL Function, JOIN, Set Operation, SQL Sub Queries. Views: What is Views, Create, Drop and Retrieving data from views.
 - 5.3 Security: Management of Roles, Changing Password, Granting Roles & Privilege, with drawing privileges.
 - 5.4 PL-SQL/TSQL: Block Structure in PL-SQL/TSQL, Variable and constants, Running PL-SQL/TSQL in the SQL *PLUS, Data base Access with PL-SQL/TSQL, Exception Handling, Record Data type in PL-SQL/TSQL, Triggers in PL-SQL/TSQL.

Suggested Books:

- 1. Data base system Korth & Silberschatz. Data Base Management System 2. Alexies & Mathews
- An Introduction to Data base System 3.
- C.J. Date Data Base Management System 4. Raguramakrishnan. 5. Data Base Management System Elmasri & Nawathe.

PRACTICAL

Note- Syllabus of Practical Exam - "Office Automation" is as follows, also the contents of DBMS (SQL/Oracle) should be included for practicals.

- 1. Windows 98/XP/2000
 - Windows Concepts, Features, Structure, Desktop, Taskbar, Start Menu, My Computer, Recycle Bin.
 - Accessories : Calculator, Notepad, Paint, WordPad, Character Map.
 - Explorer: Creating folders and other Explorer facilities.
 - Object Linking & Embedding, Understanding OLE, Embed/Ling Using Cut and Paste. Object, Manage Embedded/Linked Object.
 - Communication: Dialup Networking, Phone Dialer.
 - Installation of various devices and Operating system like Windows/Linux.
- Office S/W: Word Processing, Spreadsheet, Power Point & Outlook Express Word: Creating, Editing, & Previewing Documents, Formatting, Advanced Features, Using Thesaurus, Mail Merge, Table & Charts, Handling Graphics, Converting Word Documents into other Formats.
 - Excel: Worksheet Basics, Creating, Opening, & Moving in Worksheet, Working with Formula & Cell referencing, Absolute & Relative addressing, Working with Ranges,

BCA, DCA & PGDCA

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Formatting of Worksheet, Graphs & Charts, Database, Function, and Macros.

Power Point: Creating a presentation, Modifying visual Elements, Adding objects, Applying Transitions, animations and linking, Preparing handouts, presenting a slide show. Outlook Express: Configuring mail-Inbox, Outbox, Drafts, (To, Cc, Bcc); Understanding & maintaining address book/Contacts, POP, IAMP, calendar/scheduler.

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Preparing Database files, access & retrieval of records in a data base file, inserting & deleting of records. Programming preliminaries. Sorting & Indexing. Development of programs LOOPING, Branching, report making.

4. Tally

Setting up Ledger & Groups. Study of recording of transactions in the 'Voucher'. (According to Golden rules). Study of 'Final A/C preparation & displaying in different mode/format'. Study of alteration & Deletion of ledger/Groups. Study of cash & fund flow, day book, sales register, purchase register, bills receivable/Payable etc. Study of data security & backing up data. Outline of entry for Income Tax, ED, VAT, ST/CST, PF, Gratuity, Bonus, Loans & Depreciation etc.

[Practical Exams to be conducted to test the proficiency of the candidate in each of the above syllabus-modules including the practicals based on DBMS (SQL/Oracle)]

POST GRADUATE DIPLOMA IN COMPUTER APPLICATION, 2010-2011 [DURATION - ONE YEAR - FULL TIME]

The duration of the course shall be one year consisting of two semesters. There shall be three theory and two practical course in the each semester. There shall be grading system of awards.

SECOND SEMESTER:

PGDCA : GUI - Programming in Visual Basic.

PGDCA : Programming in Java.

PGDCA : Electives 1. Essential of E -Commerce .

PGDCA : Practicals based

PGDCA : Project

GUI - PROGRAMMING IN VISUAL BASIC

1. Introduction to visual Basic

Editions of Visual Basic, Event Driven Programming, Terminology, Working environment, project and executable files, Understanding modules, Using the code editor window, Other code navigation features, Code documentation and formatting, environment options, code formatting option, Automatic code completion features.

2. Creating Programs

Introduction to objects, Controlling objects, Properties, methods and events, Working with forms, Interacting with the user: MsgBox function, InputBox function, Code statements, Managing forms, Creating a program in Visual Basic, Printing.

3. Variable and Procedures

Overview of variables, Declaring, Scope, arrays, User-defined data types, constants working with procedures, Working with dates and times, Using the Format function, Manipulating text strings.

4. Controlling Program Execution

Comparison and logical operators, If...Then statements, Select Case Statements looping structures, Using Do...Loop structures, For...Next statement, Exiting a loop.

BCA, DCA & PGDCA

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Syllabus/1s
Science/Syllabus/1st
Syllabus/1st Semester

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SUGGESTED	UNIT-5-	UNIT-4-	UNIT-3-	UNIT-2-
READINGS	18 Hours	18-Hours	18 Hours	18 Hours
Astana (1974)Women's Movement in India. Vilkash Delhi. Antony,M.L.(1985).Women's Rights: Dialogue, New Delhi. Baker.H.ABertheide.G.W and Others(Eds)(1980).Women Today:Amulti disciplinary approach to Women's Studies. Brooks and Cole Publication.	Women Identity - Educational opportunities' and sex based education - Employment - Women politics - Legal status of women.	Problems and issues related to women in India Female mortality Female feticide, infanticide Socialization of girl child Dowry Violence Child marriage	Role of women in national development. Women in family and community: Demographic changes menarche, marriage, fertility, morbidity, mortality, life expectancy, sex ratio, aging, widowhood. Women in society: Women's role, their resources, and contribution to family	Understanding concepts related to gender differences from societal and developmental perspective. Patriarchy Caste, class culture and gender interface Gender and education Economic empowerment and gender Development processes and programs from women's perspective.

M. Sc. in HOME SCIENCE (HUMAN DEVELOPMENT)
SECOND SEMESTER (EVEN SEMESTER)

FACULTY OF SCIENCE

Eligibility Criteria	Course	Course	Course (Paper Subjects)	Credits	Contact Hours Per WeeK			EoSE Duration (Hrs.)		
(Qualifying Exams)	Code	Туре			L	T	P	Thy	5	
	HHD 201	ccc	ADOLESCENT PSYCHOLOGY	5	4	2	00	3	00	
	HHD 211	CCC	ADOLESCENT PSYCHOLOGY- LABORATORY WORK	2	00	00	3	00	3	
ination	HHD 202 HHD 212 HHD 203 HHD213	CCC	MANAGEMENT AND PROJECT PLANNING	5	4	2	00	3	0	
semester examination of back/ arrear papers		CCC	MANAGEMENT AND PROJECT PLANNING-LABORATORY WORK	2	00	00	3	00	3	
semes r of bac		CCC	NUTRITION FOR HEALTH OF WOMEN AND CHILDREN	5	4	2	00	3	0	
wing in the First of any number		CCC	NUTRITION FOR HEALTH OF WOMEN AND CHILDREN- LABORATORY WORK	2	00	00	3	00	100	
After appearing in the First semestic imaperdive of any number of back	HHD 221 HHD 801	PRJ/FST/EST ECC/CB	SOCIAL OUTREACH AND SKILL DEVELOPMENT ENVIRONMENTAL AND FOREST LAWS	6	4	3	9	3	0	
After ap			CHILD AND HUMAN RIGHTS	TOTAL=						

COURSE CODE: HHD221 Human population & Environment Study of common plants / insects / birds / wild lives etc. Environmental pollution - Urban/ Rural/ Industrial/Agricultural/mining Anganwadi Centres, etc. pre school Centre, Old Home, Women Welfare Centre. Municipal Solid waste management and handling. Study of simple ecosystems — pond / river / hill slopes, etc. experimental assets — river/ forest/grassland/hill/mountain etc. Preparation of reports on following issues welfare centres etc. Visit to mently Retarted Centre, Childcare Centre, Hospital, Welfare Centre, Juvenile court Social theoretical or computational areas of the subject. the research methodology in the subject and to prepare them for the pursuing OBJECTIVE: The aim of the project work or field work is to introduce students THEORY: 6 COURSE TITLE: SOCIAL OUTREACH AND SKILL DEVELOPMENT THEORY: 100 (20+80) M.Sc. IN HOME SCIENCE (HUMAN DEVELOPMENT) LABORATORY WORK IIND SEMESTER MARKS: 100 THEORU: 0 PRACTICAL:0 COURSE TYPE: ECC/CB **HOURS: 135** PRACTICAL:135 5

M. Sc. In HOME SCIENCE (HUMAN DEVELOPMENT)
THIRD SEMESTER (ODD SEMESTER)

FACULTY OF SCIENCE

ligibility Criteria	Course	se Course	Course (Paper/Subjects)	Credits	Contact Hours Per WeeK			EoSE Duration (Hrs.)	
Qualifyin Exams)	Code	Турс			L	T	Р	Thy	Р
	HHD	CCC	PRINCIPLES OF GUIDANCE AND COUNSELING	5	4	2	00	3	00
nation	301 HHD	CCC	PRINCIPLES OF GUIDANCE AND COUNSELING-LABORATORY WORK	2	00	00	3	00	3
xamli ar paş	311 HHD	CGC	ADVANCED STUDY IN HUMAN DEVELOPMENT	5	4	2	00	3	00
the appearing in the Second semester examination in appearance of any number of back/ arrear papers	THE PARTY OF THE P	CCC	ADVANCED STUDY IN HUMAN DEVELOPMENT	2	00	00	3	00	3
	(*) 312 HHD	CCC	CHILDHOOD PSYCHOPATHOLOGY	5	4	2	00	3	00
Second Imber of	303 HHD	CCC	CHILDHOOD PSYCHOPATHOLOGY-LABORATORY	2	00	00	3	00	3
n the Second number	313 HHD	OSC	WORK INTELLECTUAL PROPERTY, HUMAN RIGHTS & ENVIRONMENT: BASICS	6	A	3	00	3	00
ring h	HHD C01	S02 USS TRIBAL STUDIES				3	00	3	00
Npocti		AND THE STREET	Anthropological & Cross-Cultural Perspectives in Human Development	6	4	3	00		
Street Street				TOTAL= 33					

M. Sc. in HOME SCIENCE FOURTH SEMESTER

(HUMAN DEVELOPMENT) (EVEN SEMESTER)

	·
1	

Eligibility Criteria Qualifying Exams)	Course Course Course (Paper/Subjects)					Contact Hours Per Week			EoSE Duration (Hrs.)		
CABITIS)	HHD				L	1	P	Thy	1		
	401	ccc	METHODS OF STUDYING HUMAN DEVELOPMENT	5	4	2	00	3	0		
Си	HHD 411	CCC	METHODS OF STUDYING HUMAN DEVELOPMENT- LABORATORY WORK	2	00	00	3	00	100		
nination papers	HHD 402	CCC	PERSONS WITH DISABILITIES	5	4	2	00	3	0		
termester exam of backt arrear	HHD 412	ccc	PERSONS WITH DISABILITIES-LABORATORY WORK	2	00	00	3	00	3		
semes of back	HHD 403	ccc	STUDY OF FAMILY IN SOCIETY	5	4	2	00	3	0		
itywasing in the Third semustor examination mediwa of any muribor of back arear papers	HHD 413	coc	STUDY OF FAMILY IN SOCIETY-LABORATORY WORK	2	00	00	3	00	3		
w of a	松田	SSCPRI	DISSERTATION AND CURRENT TRENDS IN RESEARCHES IN HUMAN DEVELOPEMENT	6	00	00	9	00	4		
After appear breaperfive	HHD OSS	ECCICS	STATISTICS AND COMPUTER APPLICATION 6		4	3	00	3	00		
5.5				TOTAL=							

M.Sc. Home Science /Syllabus/IVth Semester

Page 45

important domains in study of Cultural Psychology Socialization: Cross-cultural approaches to child rearing	Language:Modes of representation, speech, communication and art. Sematics of culture.critical words, meaning making. Personality: Culture and personality Cognition: Porception, memory	Socio-historical approach Personal and Collective culture. Individual, other groups, umanity heoretical and Methodological histores in the study of and Psychologyheoretical and Methodological issues in the study and Psychology	Conservation Biology in Theory and Practice, Caughley, G., and A. Gunn. Blackwell Science, Cambridge, Massachusetts, U.S.A, 1996. Conservation Biology: Concepts and Applications., Cox, G. W. McGraw-Hill, Dubuque, lowa, U.S.A, 2005 Wildlife Biology, 2nd ed. John Wiley & Sons, Dasmann, Raymond Fredric, NY, 1981. Conservation and Biodiversity. Scientific American Library, Dobson, A. P. New York, New York, U.S.A, 1996. Fundamentals of Conservation Biology, Blackwell Science, Malden, Massachusetts, U.S.A. Biodiversity and Conservation, Jeffries, M. J., Routledge, New York, New York, U.S.A., 1997.
Sociali	Langu	Socio Perso Methy Methy	1. Conse Blackn 2. Conse Dubuc 3. Wildill 1981. Cons York, 4. Fund Mass 5. Biodil

SANT GAHIRA GURU VISHWAVIDYALAYA Sarguja Ambikapur (C.G.)

CHOICE BASED CREDIT SYSTEM (CBCS)

SYLLABUS M.Sc. BOTANY

SEMESTER SYSTEM SESSION 2018-19



For Affiliated Colleges of

SANT GAHIRA GURU VISHWAVIDYALAYA Ambikapur (C.G.) -497001

S. No.	Subject Code	Course Title	Course Type	Credit		ont Hou er w		Dura	SE itior
	1				L	T	P	Thy	P
1.	ABC 301	Line	ccc	6	4	2	0	3	0
2.	ABC 302		CCC	6	4	2	0	3	0
3.	ABC 303	THE P	ccc	6	4	2	0	3	0
4.	ABC SO2		OSC	6	4	2	0	3	0
5.	ABC A03/B03/ C03/D03/ E03/F03		ECC	6	4	2	0	3	0
-				30			1		

Fourth Semester Structure Table

S. No.	Subject Code	Course Title	Course Type	Credit		onta Hou er w		Eo Dura (Hi	tior
	Gorn, st				L	T	P	Thy	P
1.	ABC 401	5 7 8	ccc	6	4	2	0	3	0
2.	ABC 402	1 4 8	ccc	6	4	2	0	3	0
3.	ABC 403	5 4 0 30 10	CCC	6	4	2	0	3	0
4.	ABC 421	CAPTA N	PRJ/FST/ EST	6	4	2	0	3	0
5.	ABC A04/B04/ C04/D04/ E04/F04		ECC	6	4	2	0	3	0
		36 1		30			T		

0	(*)	0	60	0	m	00	00		
en	o	m	0	0	0	60	60		
o '	63	0	(7)	0	e	8	8		
7	00	7	8	2	8	60	ന		
4	8	4	8	4	8	4	4		
ın	2	9	7	u)	7	ø	9		TOTAL=
CELL AND MOLECULAR BIOLOGY	CELL AND MOLECULAR BIOLOGY (PRACTICAL)	GENETICS AND CYTOGENETICS	GENETICS AND CYTOGENETICS (PRACTICAL)	PHYSIOLOGY AND BIOCHEMISTRY	PHYSIOLOGY AND BIOCHEMISTRY (PRACTICAL)	RESEARCH METHODOLOGY & COMPUTER APPLICATION: BASICS	CONSTITUTIONALISM & INDIAN POLITICAL SYSTEM	RECOMBINANT DNA TECHNOLOGY AND PROTEOMICS	
200	200	200	000	222	202	OSC	ECC/CB	ECC/CB	
MBT101	MRT111	MBT102	MBT112	MBT103	MBT113	MBT S01	MBT A01	MBT A02	
	1) Merit List	2) Entrance Test (written	decided by	University	3) Observance	Reservation Policy.			
	Bachalor	Degree in any	(Pure & Bloscience)						
	CCC CELL AND MOLECULAR BIOLOGY 5 4 2 0 3	MBT101 CCC CELL AND MOLECULAR BIOLOGY (PRACTICAL) 2 00 00 3 0	MBT101 CCC CELL AND MOLECULAR BIOLOGY 5 4 2 0 3	1) Montr List MBT101 CCC CELL AND MOLECULAR BIOLOGY 5 4 2 0 3 2) Enfrance 2) Enfrance Tost (written mBT102 CCC CELL AND MOLECULAR BIOLOGY (PRACTICAL) 2 00 00 3 0 7 Enfrance original oral) if MBT102 CCC GENETICS AND CYTOGENETICS (PRACTICAL) 2 00 00 3 0 8 decided by MBT112 CCC GENETICS AND CYTOGENETICS (PRACTICAL) 2 00 00 3 0	1) Mont List MBT101 CCC CELL AND MOLECULAR BIOLOGY S	MBT101 CCC CELL AND MOLECULAR BIOLOGY S 4 2 0 3 0 0 0 0 0 0 0 0	MBT101 CCC CELL AND MOLECULAR BIOLOGY 5 4 2 0 3	MBT101 CCC CELL AND MOLECULAR BIOLOGY 5 4 2 0 3	1) Merit List

		NTWSEMESTER
" (BOTANY)		393 - Heavy Demonstrate
AND 100 100 100 100 100 100 100 100 100 10	MBT301	COORSE
OKSE COM	THE THE PROPERTY OF THE PROPER	IND INDUSTRIAL APPLICATIONS
COUR	SE TITLE: IN VIEW LESSTAND	HOURS:135
	BPACTICAL:2	THEORY:90 PRACTICAL: 45
#IONY: 5	MARKS	
	1	PRACTICAL:33
	THEORY: 100 (20+80)	and an analysis and
OBJECTIVE	OBJECTIVE: This course is aimed towards generalizations of Botany/ Plant Science.	This course is aimed towards generating fundamental knowledge, concernorating fundamental knowledge, concern
To	To provide students with an overview of plant tissue curing techniques, their potential in the production of propagative rechniques, their potential in the production of propagative rand interaction with industries) Micropropagation (via organd emd embryogenesis) of floricultural, agricultural and pharmand embryogenesis) of floricultural, Gerbera, Carnation, Anthreambors, Chrysanthemum, Gerbera, Carnation, Anthreambors, Spilanthes, Stevia, Psoralea, Chickpea and el species of national importance	To provide students with an overview of plant tissue culture techniques, their potential in the production of propagative material and interaction with industries) Micropropagation (via organogenesis and interaction with industries) Micropropagation (via organogenesis and embryogenesis) of floricultural, agricultural and pharmaceutical and embryogenesis) of floricultural, agricultural and pharmaceutical crops. Orchids, Chrysanthemum, Gerbera, Carnation, Anthurium, Bamboos, Spilanthes, Stevia, Psoralea, Chickpea and elite tree species of national importance
UNIT-2- 8	Production of virus free plants throad fruit trees. Germplasm conservation in vitro.	Production of virus free plants through meristem culture in orchids and fruit trees. Germplasm conservation in vitro.
	Germpiasın comer	. spontaneous, spontaneous,
UNIT3	Variations: Somaclonal and gameto genetic and epigenetic variations. Culture systems: Differentiated, ut biochemical and molecular role of minerals and growth regulators in pregase under in vitro conditions.	Variations: Somaclonal and gamenoclouds variations: Somaclonal and gamenoclouds variations. genetic and epigenetic variations. Culture systems: Differentiated, undifferentiated, physiological, biochemical and molecular role of minerals and growth regulators in understanding differentiation of minerals and growth regulators.
	Problems in Plant Tissue Culture: contamination, phenolics,	ire: contamination, phenolics,
UNIT-4- 18Hours	recalcitrance. Problems in establishment of regenerated plants in nature: Problems, association of hardening, association of mycorrhiza and rhizobia. Factors responsible for in vitro and ex vitro hardening.	regenerated plants in nature: ro and ex vitro hardening.
UNIT-5-	2 0	Use of bioreactors in secondary metabolite production and scale up automation of plant tissue culture. Recent applications of tissue culture techniques and biotechnology in the introduction of economically agricultural and medicinal plants. important traits in horticultural, agricultural and medicinal plants. Interactions, training and workshops in Biotech industries and placements.

FOURTH SEMESTER (EVEN SEMESTER

FACULTY OF SCIENCE

FOURTH SEMES	Course	Course	Course (Paper/Subjects)	Credits		tact I er Wo	lours reK	Eo Dur (11	
(Qualifying Exams)	Code	Туре	Course (Laber Surgeon)	Ç	To	T	P	Thy	Р
	MBT 401	CCC	IN VITRO TECHNOLOGIES AND INDUSTRIAL APPLICATIONS	5	4	2	00	3	00
After appearing in the Third	MBT 411	ccc	IN VITRO TECHNOLOGIES AND INDUSTRIAL APPLICATIONS (PRACTICAL)	2	00	00	3	00	3
examination	MBT 40A2	ccc	REPRODUCTIVE BIOLOGY OF FLOWERING PLANTS	5	4	2	00	3	00
irrespective of any	MBT 412	CCC	REPRODUCTIVE BIOLOGY OF FLOWERING PLANTS	2	00	00	3	00	3
number of back/ arrear	MBT 403	ccc	MOLECULAR INTERACTIONS OF PLANTS WITH SYMBIONTS, PATHOGENS & PESTS	5	4	2	00	3	00
papers	MBT 413	CCC	MOLECULAR INTERACTIONS OF PLANTS WITH SYMBIONTS, PATHOGENS AND PESTS (PRACTICAL)	2	00	00	3	00	3
	MBT 421	SSC/PRJ	DISSERTATION	6	00	00	9	00	4
1. 1. 12 12 13	MBT DOI	ECC/CB	ADVANCED GENETICS AND PLANT BREEDING	6	4	3	00	3	00
	MBT D02	ECC/CB	AGRICULTURAL ECOLOGY - PRINCIPLES AND APPLICATIONS	1					
	MBT D03	ECC/CB	ADVANCED PLANT SYSTEMATICS						
	MBT D04	ECC/CB	CONTEMPORARY CONCEPTS AND METHODS IN CELL BIOLOGY	17					
	MBT D05	ECC/CB	PLANT PHYSIOLOGY AND BIOCHEMISTRY	Tot	al=33				

M. Sc. (BOTANY)	NYO	HIRD SEMESTER
CONTRACT CO	Commercopt: MBT301	COURSE TYPE: CCC
	COURSE TITLE: ALGAE, ENV	COLIBSE TITLE: ALGAE, ENVIRONMENT AND HUMAN WELFARE
Name of Street	CREDIT:7	HOURS:135
THEORY: 5		THEORY:80 PRACTICAL: 45
		MARKS
	THEORY; 100 (20+80)	PRACTICAL:33
OBJECT	OBJECTIVE: This course is aimed toward dimensions of Botany/ Plant Science.	OBJECTIVE: This course is aimed towards generating fundamental knowledge, concepts and dimensions of Botany/ Plant Science.
UNITA- 18 Hours	Diversity and distribution of the algae: Thallus or reproduction in various groups. Chlamydomonas experimental systems.	and distribution of the algae: Thallus organization, cell structure and on in various groups. Chlamydomonas and Porphyra as modern ital systems.
UNIT-2- 18rours	Classification: Molecular taxonomy special emphasis on emerging trends principal groups of algae. The following groups will be covered Rhodophyta.	Classification: Molecular taxonomy – recent developments in algal classification, special emphasis on emerging trends in molecular phylogeny and inter relationship of principal groups of algae. The following groups will be covered: Cyanophyta, Chlorophyta, Phaeophyta and Rhodophyta.
UNITS 18 Hours	and the latest designation of the latest des	Algal Biotechnology : Historical perspectives, algal culturing techniques in the laboratory, tissue and cell culture studies in seaweeds,
UNIT-4-	CONTRACTOR OF THE PARTY OF THE	Cryopreservation, aquaculture (micro and macro algae cultivation), bioremediation recent developments and future of algal biotechnology; Algal biofuels—algal biodiese bio-ethanol and biological hydrogen production; Algae in global warming — carbo capture by algae.
UNIT-5- 18Hours		Industrial Phycology : Products, processes and applications, seawee polysaccharides like Agar, Carrageenan and Alginates. Bioactive compounds fro algae: Bio-fertilizers, Algae in bioengineering, photo-bioreactors and raceway ponds.

M. Sc. In BOTANY

FACULTY OF SCIENCE

Eligibility Griteria (Qualifying	Course Gode	Course Type	Course (Paper/Subjects)	Credits		ntact er We	Hour eK	Dur	SE ation
Exams)					L	Т	Р	Thy	P
After	MST 301	cco	ALGAE, ENVIRONMENTAND HUMAN WELFARE	WE 188	1000	2	Olio	93	00
appearing in the Second	MBT 311	CCC	ALGAE, ENVIRONMENT AND HUMAN WELFARE (PRACTICAL)	2	00	00	3	00	3
emester examination respective of	MBT 302	CCC	PRINCIPLES OF ECOLOGY	tes.	4	210	00	1500	10 90
y number	MBT 312	CCC	PRINCIPLES OF ECOLOGY (PRACTICAL)	2	00	00	3	00	3
back/	MBT303	CCC ·	ADVANCES IN ARCHEGONIATAE	THE 5440	14	230	-00	3	00
	MBT 313	CCC	ADVANCES IN ARCHEGONIATAE (PRACTICAL)	2	00	00	3	00	3
	MBT SQ2	osc 8	INTELLECTUAL PROPERTY, HUMAN RIGHTS & ENVIRONMENT	The state of the s	42	3	00	98	80
8- 88	MBT C01	ECC/CB	TRIBAL STUDIES	STANDARD STAN		2-0.00	STATE DESCRIPTION	2000	24
188 06	MBT C02	ECC/CB	MICROSES AND MICROSIAL TECHNOLOGY						
100	MBT C03	ECC/CB	EVOLUTIONARY BIOLOGY	r Gla					- 3
100 564 S	MET CO4	ECCICS.	BIOSTATISTICS	6	4	3	00	3	00
100	MBT COS	ECC/CB	GENOMICS AND PROTEOMICS						- 3
Man No.	Met cos	DECC/CB	IMMUNOLOGY TO THE TOTAL OF THE			- 6			
50 E				TOTAL=	The second				

Science Books, CA, USA.

III, Cold Spring Harbor Laboratory, USA.

5. Sambrook J and Russell DW (2001). Molecular Cloning - A Laboratory Manual, Vols I -6. Singer M and Berg P (1991). Genes and Genomes: A Changing Perspective; University

4. Pennington SR, Dunn MJ (Eds.) (2002). Proteomics: From Protein Sequence to Function, BIOS Scientific Publishers, United Kingdom.

SUGGES	E-LIND 18HOURS	UNITED F	UNITS D	UNIT-2: P	UNITE P	OBJEC	- Constitution		THEORY: 6			COURSE CODE: MBTA02	M.Sc (BOTANY)
1. Buchanan B, Gruissem G and Jones R (2000). Biochemistry and Molecular Biology of Plants, American Society of Plant Physiologists, USA. 2. Harlow and Lane D (Eds.) (1988). Antibodies – A Laboratory Manual; Cold Spring Harbor Laboratory, USA. 3. Lieber DC (2006). Introduction to Proteomics: Tools for New Biology; Humana Press.	Electrophorasis and column chromatogra- and its relevance/significance in the post genetics, breeding and diversity studies.	Proteomics: Comparative account of transtranslational modifications, Use of vector extraction/purification techniques viz.,	DNA and genomic libraries; Isolation of specific genes from b cloning; PCR and its applications; Principles of DNA sequencing	Principles of gel electrophoresis; choice of vectors; plasmids, phages, cosmids, viruses, synthetic DNA vectors;	Principles and tools of recombinant DNA modifying enzymes; restriction mapping;	OBJECTIVE: This course is aimed towards generating fundamental knowledge concepts and dimensions of Botany/ Plant Science.	THEORY: 100 (20+80)	MARKS	PRACTICAL:0	CREDIT:6	COURSE TITLE: RECOMBINANT DNA TECHNOLOGY AND PROTEO MICS	DE: MBTA02	3
1. Buchanan B, Gruissem G and Jones R (2000). Biochemistry and Molecular Biology of Plants, American Society of Plant Physiologists, USA. 2. Harlow and Lane D (Eds.) (1988). Antibodies — A Laboratory Manual; Cold Spring Harbor Laboratory, USA. 3. Lieber DC (2006). Introduction to Proteomics: Tools for New Biology; Humana Press,	Electrophoresis and column chromatography, introduction to proteome and proteomics and its relevance/significance in the post genomic era, Proteomics as a tool for plant genetics, breeding and diversity studies.	Proteomics: Comparative account of translation in prokaryotes and eukaryotes, post translational modifications, Use of vectors for over-expression of proteins, Protein extraction/purification techniques viz.,	DNA and genomic libraries; Isolation of specific genes from bacteria and higher plants; cloning; PCR and its applications; Principles of DNA sequencing.	vectors; plasmids, phages, cosmids, plant	Principles and tools of recombinant DNA technology: Restriction and nucleic acid modifying enzymes; restriction mapping;	generating fundamental knowledge, Science.	PRAGTICAL:00		THEORY:90 PRACTICAL: 00	HOURS:90	LOGY AND PROTEO MICS	COURSE TYPE: ECC	IST SEMESTER

The second second second	EMESTER (EV	EN SEMESTER)		Credits		ntact irs Po ieK	,	EoSE Duration (Hrs.)	on
Eligibility Criteria	Course Code	Course Type	Course (Paper/Subjects)				P	Thy	
Qualifying Exams)			DEVELOPMENTAL BIDLOGY NO	6	A	劉	00	3 (8)	00
Man Called	MBT201	CCC	DEVELOPMENTAL BIOLOGY (PRACTICAL)	2	00	00	3	00	3
fter:	MBT211	ccc	PATHOGENS AND PESTS OF CROP PLANTS		4.5	2	00	3	0
ppearing in or First	MBT202	CCC	PATHOGENS AND PESTS OF CROP PLANTS (PRACTICAL)	2	00	00	3	00	3
xaminationir	MBT212	ccc	PLANT BIOTECHNOLOGY AND RESOURCE UTILIZATION	5 5		20	00	33	0
ny number f back 708	MBT203	CCC	PLANT BIOTECHNOLOGY AND RESOURCE UTILIZATION	2	00	00	3	00	1
rrear papers	MBT213	ccc	(PRACTIONS)	3 6	100	60	9	00	
in the	MBT 22°	PRU/FST/EST	SOCIAL OUTREACH AND SKILL DEVELOPMENT ENVIRONMENTAL AND FOREST LAWS	6	4	3	00	3	T
68 AJ	MBT B01	ECCICB						1	1
	MBT B02	ECC/CB .	SYSTEMATICS, EVOLUTION AND ENVIRONMENTAL SCIENCE	TOTAL=					1

स्वाद और सेहत का भरपूर मज़ा, परोसिये न्यूट्रेला सोया का हेल्दी पीज़्ज़ा. M.Sc. Home Science (Food & Nutrition)

SANT GAHIRA GURU VISHWAVIDYALAYA

Sarguja Ambikapur (C.G.)

CHOICE BASED CREDIT SYSTEM (CBCS)

M.Sc.Home Science (Food & Nutrition)

SEMESTER SYSTEM SESSION 2018-19



For Affiliated Colleges of

SANT GAHIRA GURU VISHWAVIDYALAYA

Ambikapur (C.G.) -497001

Third
Semester
Structure
Table

S. Subject Course Title 40. Code 1. ABC 401 2. ABC 402 3. ABC 403 4. ABC 421 5. ABC 421 5. ABC 421 6. A04/B04/C04/D04/F04 E04/F04	Subject Code ABC 401 ABC 402 ABC 403 ABC 421 ABC 421 ABC 421 C04/b04/ C04/b04/ E04/F04	T		_	w	D.			No.
	Course Title						A STATE OF		
Course Title			ABC A04/B04/ C04/D04/ E04/F04	ABC 421	ABC 403	ABC 402	ABC 401		Subject Code
	Course Type CCC CCC CCC CCC EST EST ECC	the party of the same of	v				200	-21	Course Title
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	4 4 4 4 F P C		2	2	2	2	2	Н	Hou Hou
	Cont. Hou Per w L T 4 2 4 2 4 2 4 2 4 2 4 2 4 2		0	0	0	0	0	Р	eek
Contac Hours Per wee L T 4 2 4 2 4 2 4 2 4 2 4 2	Contac Hours Per wee		ω	ω	w	w	ω	Thy	Durat (Hr:
Contact Hours Per week L T P 4 2 0 4 2 0 4 2 0 4 2 0 4 2 0 4 2 0	T P 2 0 2 0 1 2 0 1 2 0 0 0 1 2 0 0 0 1 2 0 0 0 1 2 0 0 0 1 2 0 0 0 1 2 0 0 0 1 2 0 0 0 1 2 0 0 0 0	-			III.				7 0 0

	'n	4	w	2.	1		No.
	ABC A03/B03/ C03/D03/ E03/F03	ABC S02	ABC 303	ABC 302	ABC 301	100	Subject Code
							Course Title
	ECC	OSC	ccc	CCC	CCC		Course
30	6	6	6	6	6	7	Credit
	4	4	4	4	4	-	PO
	. 2	2	2	2	2	Н	Contact Hours Per week
	0	0	0	0	0	70	act rs eek
1	ω	w	w	ω	w	Thy	EoSE Duratio (Hrs.)
-	0	0	0	0	0	70	EoSE Juratio (Hrs.)

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E DEPOSITOR	WHEN THE REAL PROPERTY.	NUMBER OF TRACES		CONTRACT OF THE		

Engloisty Criteria (Qualifying	Admission Criteria	Course Code	Course Type	Course (Paper/Subjects)	Credits	Contact Hours Per WeeK			EoSE Duration (Hrs.)	
Exams)		Total Land				L	T	P	Thy	P
		HSc 101	CCC	PHYSIOLOGY	5	4	2	0	3	0
		HSc 111	CCC	PHYSIOLOGY-LABORATORY WORK	2	00	00	3	0	3
	Ment List Ment oran oral) if decided by the University Observance of Reservation Policy.	HSc 102	CCC	FOOD MICROBIOLOGY	. 5	4	2	0	3	C
		HSc 112	CCC	FOOD MICROBIOLOGY-LABORATORY WORK	2	00	00	3	0	3
		HSc 103	CCC	PROBLEMS IN HUMAN NUTRITION	5	4	2	0	3	0
		HSc 113	CCC	PROBLEMS IN HUMAN NUTRITION- LABORATORY WORK	2	00	00	3	0	3
		HSc 501	OSC	RESEARCH METHODOLOGY & COMPUTER APPLICATION: BASICS	6	4	3	00	3	0
	Entran	HSc A01	ECC/CB	CONSTITUTIONALISM & INDIAN POLITICAL SYSTEM	6	4	3	00	3	00
	3 8			PUBLIC NUTRITION				-		
			Hell		TOTAL=					

16

	COM	Second	Sem
M-Sc	tel,	July	

lights,			- Paper Subjects	Credits	Contact Hours Per WeeK			EoSE Duration (Hrs.)	
Criteria	Course	Course Type	Course (Paper/Subjects)				P	Thy	Р
ualifying Exams)	Code			5	4	2	00	3	00
		ccc	FOOD SCIENCE	2	00	00	3	00	3
, jo	HSc 201		FOOD SCIENCE-LABORATORY WORK		4	2	00	3	0
	HSc 211	CCC	FOOD CHEMISTRY FOOD CHEMISTRY-LABORATORY WORK THERAPEUTIC NUTRITION THERAPEUTIC NUTRITIO	5 2	00	00	3	00	3
	HSc202	CCC		5	4	2	00	3	0
dim	HSc 212	CCC		2	00	00	3	00	3
ny m	HSc 203	CCC		6	00	00	9	00	4
After appearing in the First semester examination irrespective of any number of back arear papers	HSc 213.	CCC	SOUND OUTDEACH AND SKILL DEVELOT MENT					PA	
	HSc 221	PRJ/FST/EST	CANVIDONIMENTAL AND FUREST LAVIO	medical and	1.	1.	00	3	00
	HScB01	ECC/CB	COOR PROCESSING-1	6	4	3	00	1 "	1
	HSc B02	ECC/CB	PROGRAMME PLANNING IN PUBLIC HEALTH			-			1
	HSc B03	ECC/CB	NUTRITION	TOTAL=					

SUGGESTED READINGS

UNIT-5-18 Hours

NUTRITION IN EMERGENCIES AND DISASTERS:

Nutritional problems in emergencies in vulnerable groups Natural and manmade disasters resulting in emergency situations

Assessment and surveillance of affected population groups - clinical, Macro and micronutrient deficiencies

hygiene, evaluation of feeding programmes anthropometric and dietary Nutritional relief and rehabilitation - assessment of food needs, food distribution strategy, mass and supplementary feeding, sanifation and

Public nutrition approach to tackle nutritional problems in emergencies

Edelstein S. (2006) Nutrition in Public Health. A handbook for developing programmes

and services. Second Edition. Jones and Bartlett Publishers. FAO. (1983) Selecting Interventions for Nutrition Improvement. A Manual Emergencies in Large Populations, World Health Organization, Geneva. Goyet, Fish. V. Seaman, J. and Geijer, U. (1978) The Management of Nutritional Nutrition in Agriculture, No. 3.

Gibney M.J., Margetts, B.M., Kearney, J. M. Arab, I., (Eds) (2004) Public Health

Nutrition, NS Blackwell Publishing.

WFP/ UNHCR (1998) WEP/ UNHCR Guidelines for Selective Feeding Delivering Services, 2nd ed. Times Mirror/ Mosby. Owen. A. Y. and Frankle, R. T. (1986) Nutrition in the Community. The Art of Programmes, London and New York: Plenum Press, Klein, R. E. (Ed) (1979) Evaluating the Impact of Nutrition and Health

Programmes in Emergency Situations, Rome and Geneva: WEP & UNHCR.

E BE SHOULD STORY * THIRD SEWESTER IDOD SEWESTER

phility Criteria (Qualifying Exams)	Course Code	Course Type	/pe Course (Paper/Subjects)	Credits	Col	ntact Hours I WeeK	Par	EoSE Duration (Hrs.)		
	HSc	cco.	ADVANCED AUTOMON'S		L	T	P	Thy	P	
	301 HSc	CCC	ADVANCED NUTRITION	5	4	2	00	3	00	
ers	311	-	ADVANCED NUTRITION-LABORATORY WORK	2	00	00	3	00	3	
ulm day					40.00			25/		
ester exa	HSc	CCC	NUTRITIONAL BIOCHEMISTRY-*		100	STATE AND	100	200	00	
	312 HSc CC		LABORATORY WORK	2	00	00	3	00	3	
A Day	303	CCC	METHODS OF INVESTIGATION	5				01.00	1	
ber	HSc	CCC	METHODS OF INVESTIGATION-		4	2	00	3	00	
S SE	313		LABORATORY WORK	2	00	00	3	00	3	
ang	Hsc 02	OSC	Intellectual Property				200			
After appearing in the Second semester examination imaspective of any number of back/ arroar papers	HSc		Human Rights & Env. Basics	6	4	3	0	3	00	
	C01	ECC/CB	TRIBAL STUDIES		ALC: N					
			NUTRITION FOR HEALTH OF WOMEN AND CHILDREN	6	4	3	00	3	00	
				TOTAL= 33		-			-	

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Eligibil Criteri

Preventive & Social Medicine- J.E.PARK Human Nutrition- RAJ LAKSHMI Diabetics & Nutrition-DAVIDON, PASSMORE

FACULTY OF BORNOS

TOTAL= 33

Hand Book of Food & Nutrition- M. SWAMINATHAN

Clinical Nutrition- F.P. ANTIA

MI SCHOOL SCHOOL SCHOOL SCHOOL FOURTH SEMESTER EVEN SEMESTERS

Eligibility Criteria (Qualifying Exams)	Course Code	Course Type	Course (Paper/Subjects)	Credits		Contact Hours Per WeeK			EoSE rration Hrs.)
	HSc 401	ccc	NUTRITION FOR HEALTH AND FITNESS		L	T	Р	Thy	P
Third semaster of any number r papers		000	The state of the s	5	4	2	00	3	00
	HSc 411	CCC	NUTRITION FOR HEALTH AND FITNESS- LABORATORY WORK	2	00	-00	3	-	-
	HSc 402	CCC	GERIATRIC NUTRITION		00	1-00	10	00	3
of page	HSc 412	CCC	GERIATRIC NUTRITION-LABORATORY WORK	5	4	2	00	3	00
Ctive Ctive	HSc 403	CCC	INSTITUTION MANAGEMENT	2	00	00	3	00	3
ring in the Third se irrespective of any back arrear paper	HSc 413	CCC	INSTITUTION MANAGEMENT-LABORATORY WORK	5	4	2	00	3	00
After appearing in the Texamination irrespective of back/ arrear	UC- 421		DISSERTATION AND CURRENT TRENDS IN	2	00	00	3	00	3
	HSc 421	SSC/PRJ ECC/CB	RESEARCHES IN NUTRITION	6	00	00	9	00	4
Afr	- 10-3	THE PARTY OF	STATISTICS AND COMPUTER APPLICATION	6	4	3	00	3	00
S CONTRACTOR				TOTAL				-	-

M.Sc. Home Science /Syllabus/IVth Semester/SU