



Andhra Christian College, Guntur

Affiliated to Acharya Nagarjuna University

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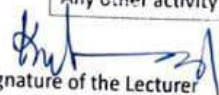
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1.1.1. TEACHING SYNOPSIS

Andhra Christian College, Guntur
Proforma for Teaching PLAN

Name of the Department / Subject	CHEMISTRY
Name of the Lecturer	Dr. M. KUSUMA KUMARI.
Course / Group	B.Sc
Paper	III B.Sc
Name of the Topic	Environmental Chemistry.
Hours Required	6 hrs.
Learning Objectives	Knowledge, observation, Skill.
Previous Knowledge to be reminded	What is pollution.
Topic Synopsis	Presence of undesired material in the water or air is called <u>pollution</u>, which causes harmful effect to humans, animals or any living organisms. <u>Sources of water pollutants</u>: - inorganic, organic, Sediment, domestic waste, Radioactive pollutants, Thermal pollutants. They effect - we can not drink water, effects aquatic life. Algae can not grow, pH of water changes, decreases O₂. leads to diseases like Cholera, Typhoid, diarrhoea, etc. Polluted water reduces Agricultural productivity. Methods discussed to control water pollution. <u>Air pollution</u>: - Pollutants CO₂, CO, SO₂, SO₃, Oxides of Nitrogen. Respiratory disorders, Acid rain, effects Lungs, Heart; HI. Remedial Methods discussed. <u>Green house effect</u>: - G.H. gases - CO₂, N₂O, CH₄, & CFC. F-loro Carbons - Consequences - effects Agriculture, decrease in ground water, temp may be increased. Methods to control. <u>Acid Rain</u>: - Rain water mixed with H₂SO₄, HNO₃ comes down to earth as acid.
Examples / Illustrations	Natural
Additional Inputs	Assign - 15
Teaching Aids Used	B.B., Natural illustrations
References Cited	Text book - A.K. Day
Student Activity Planned after the teaching	Assign - 15
Any other activity	Collecting the examples of pollution.


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Name of the Department / Subject	Chemistry
Name of the Lecturer	Y. Durga Prasad
Course / Group	TIT BSc, Sem - IV
Paper	Paper - I, Industrial Chemistry - 2
Name of the Topic	Industrial Waste Management - I
Hours Required	06 hours
Learning Objectives	To learn water treatment methods.
Previous Knowledge to be reminded	About water purification plant in Guntur city
Topic Synopsis: Waste water treatment: causes of pollution of water - domestic, industrial and agricultural activities. Industrial waste water from food processing, ^{unit} tanneries, paper and sugar industries, electroplating & pharmaceutical industries. Waste water treatment methods: Primary treatment: screening, sedimentation, Secondary treatment. Digestion, aeration, biological methods - types of bacteria helpful to destroy organic matter; chemical methods, removal of heavy metals. Tertiary treatment: clarification and disinfection. Industrial waste water treatment. Characteristics of solid wastes. Methods of solid waste treatment and disposal.	
Examples / Illustrations	You Tube Clippings of water treatment plants.
Additional Inputs	Damage of land due to solid wastes.
Teaching Aids Used	You tube clippings.
References Cited	Environmental Science by A.P. Dey.
Student Activity Planned after the teaching	Planned to take students to municipal drinking water plant.
Any other activity	Seminars by students.

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Name of the Department / Subject	CHEMISTRY.
Name of the Lecturer	DR. M. KUSUMA KUMARI
Course / Group	B.Sc
Paper	Sem I Paper I.
Name of the Topic	Theories of Bonding in Metals.
Hours Required	4 Hours.
Learning Objectives	To know about conductors, Semiconductors.
Previous Knowledge to be reminded	Conductivity, Semi conductors.
Topic Synopsis:-	If 'n' number of atomic orbitals combine together to form 'n' no. of molecular orbitals. They form closely spaced energy levels called <u>Bands</u> .
1)	Substances which conduct electricity are conductors, conductance increases with increase of Temp. eg. Ag, Cu, Au, Al.
2)	Substances which do not conduct electricity Insulators.
3)	Semiconductors — a) n-type: Semiconductors which exhibit conductivity due to the flow of excess -ve electrons eg:- An atom of As, Sb or Bi (V group) introduced in the lattice of Silicon or germanium (IV group). The 5th electrons free to move in the lattice which enhances conductivity.
4)	b) P-type: exhibits conductivity due to +ve holes. p-type when an atom of 3rd group introduced in lattice of IV group. When an atom of 3rd group introduced, it is surrounded by seven electrons instead of 8. Resulting the free movement of electrons which shows conductivity.
Free electron theory:-	Metals as group of +ve ions embedded in sea of mobile electrons. Valency bond theory:-
V.B.T does not explain Metallic Character in solution.	$\begin{array}{c} \text{Li} - \text{Li} \leftrightarrow \text{Li} \\ \\ \text{Li} - \text{Li} \leftrightarrow \text{Li} \\ \\ \text{Li} - \text{Li} \leftrightarrow \text{Li} \end{array}$
Examples / Illustrations	Conductivity of Sparsely Conductance.
Additional Inputs	Good.
Teaching Aids Used	B.B. Natural examples.
References Cited	A.P. Aggarwal (In field Text Book)
Student Activity Planned after the teaching	Assignment.
Any other activity	Ats Exam.

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Name of the Department / Subject	Chemistry
Name of the Lecturer	V. Durga Prasad
Course / Group	III BSc, Sem-V
Paper	Paper-TC, Industrial Chemistry-2
Name of the Topic	Analysis of water -1
Hours Required	05
Learning Objectives	Various water quality parameters and their determination methods.
Previous Knowledge to be reminded	About water pollution in previous classes.

Topic Synopsis:

Hardness of water: Definition of hard water, temporary and permanent hardness - causes. Methods of removal of hardness of water. Determination of total hardness of water by EDTA method.

Dissolved oxygen (DO): Normal value of DO in good quality water, decrease in DO value due to pollution and its bad effects. Determination of DO value by Winkler's method.

BOD: Normal value of BOD in unpolluted water. Increase in BOD due to various organic pollutants. Determination of BOD.

COD: Normal limits. Increase in COD value due to various organic pollutants from plants and animals, industrial and domestic waste water. Determination of COD by acidified standard $K_2Cr_2O_7$ ~~oxid~~ in presence of metal ion catalysts.

Examples / Illustrations	Collection of news paper clippings.
Additional Inputs	Study material, practical determination.
Teaching Aids Used	Practicals to determine DO, COD.
References Cited	Text books and practical manuals.
Student Activity Planned after the teaching	To observe causes of water pollution in the surrounding areas.
Any other activity	Slip test and assignments.

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Name of the Department / Subject	Chemistry
Name of the Lecturer	Y. Durga Prasad
Course / Group	III BSc, Sem - V
Paper	Paper-7C, Industrial chemistry-2
Name of the Topic	Organic Polymers - 2
Hours Required	08 hrs.
Learning Objectives	To learn mechanisms of different types of polymerisation
Previous Knowledge to be reminded	Types of organic reaction mechanisms.
Topic Synopsis: 1) Addition polymerisation: Definition, examples of addition polymers. a) Free radical addition polymerisation: Definition, Explanation of various steps involved, free radical initiators, generation of free radicals, chain propagation steps, chain termination steps. b) Cationic addition polymerisation: Definition, role of Lewis acids like BF_3, chain propagation and termination steps, Polymers manufactured by this mechanism. c) Anionic addition polymerisation: Definition, role of strong bases like KNH_2, $RONa$ in the mechanism, living Polymer. 2) Condensation polymerisation: Def, examples - Nylon 6,6, Polyester, polypeptides etc. Explanation of mechanism. 3) Coordination polymerisation: Ziegler-Natta catalysts, Explanation of mono and bimetallic mechanisms. Significance of Ziegler-Natta catalysts.	
Examples / Illustrations	Shown some samples of polymers.
Additional Inputs	Study material, YouTube clippings
Teaching Aids Used	Internet.
References Cited	Text book of polymer science.
Student Activity Planned after the teaching	Seminars and assignments.
Any other activity	Slip test.

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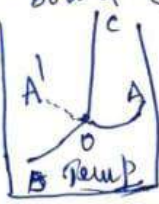
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Name of the Department / Subject	CHEMISTRY
Name of the Lecturer	Dr. H. KUSUMA KUMARI
Course / Group	I B.Sc
Paper	Paper I
Name of the Topic	Dilute Solutions - colligative prop
Hours Required	Six hours.
Learning Objectives	Know about colligative prop
Previous Knowledge to be reminded	Dilute & conc solutions effect of temp, Pres
Topic Synopsis:	The properties of dilute solutions which depend upon the no. of solute particles present in the solution are called colligative properties. They are 4 properties.
① Relative lowering of V. Po / Solutions (ΔP)	Raoult's Law: - The relative lowering of V. Po of a dil solution is equal to the mole fraction of the solute in the solution. $\frac{P_0 - P_s}{P_0} = \frac{W_s}{M_s} \times \frac{M_0}{W_0}$ $\frac{P_0 - P_s}{P_0} = \frac{n_s}{n_s + n_0}$ Mol. wt of solute $M_s = \frac{P_s}{P_0 - P_s} \times \frac{W_s}{W_0} \times \frac{M_0}{1}$
② Elevation in B.P of Solutions (ΔT_b)	:- G.P. curve in B.P of non-volatile solute & that of B.P of pure solvent is elevation in ΔT_b & m molarity of the solution $M_s = 1000 K_b \times \frac{W_s}{W_0 \times \Delta T_b}$
③ Depression in Freezing point of solution ΔT_f	:- The curve in a non-volatile solute solution & that of the F.P of pure solvent is F.P. (Cg) - F.P of salt water is less than F.P of pure water $\Delta T_f = 100 K_f \times \frac{W_s}{W_0} \times \frac{1}{M_s}$
④ Osmosis - when solvent molecules move from a less concentrated solution into a more concentrated solution is called osmosis.	osmotic pressure $\pi = C R T$, $\pi = \frac{W_s}{M_s} \times \frac{R T}{V}$, $M_s = \frac{W_s}{\pi} \times \frac{R T}{V}$
Examples / Illustrations	Egg in salt water & pure water
Additional Inputs	Material
Teaching Aids Used	B.B, Natural examples.
References Cited	O.P. Agarwal.
Student Activity Planned after the teaching	Assign. & Ex.
Any other activity	Exam.

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Name of the Department / Subject	CHEMISTRY.
Name of the Lecturer	Dr. H. KUSUMA KUMARI
Course / Group	D.B.Sc.
Paper	Paper IV Sem IV
Name of the Topic	Phase rule.
Hours Required	6 hrs.
Learning Objectives	Knows the effect of Physical Conditions on Equilib.
Previous Knowledge to be reminded	Law of Masses.
Topic Synopsis: For heterogeneous systems in equilibrium, phase rule is $F = C - P + 2$ where F = No. of degrees of freedom, C = No. of components, P = No. of phases. ① Water system: - one component system (H_2O), Phases - (3) liquid, vapour, and ice, Liquid $\rightleftharpoons$ Vapour, Solid $\rightleftharpoons$ Vapour, Solid $\rightleftharpoons$ liquid. Present  Curves - OA, OB, OC & OA', $F = C - P + 2 = 1 - 2 + 2 = 1$ Areas: - Three AOB, BOC, AOC; $F = 1 - 1 + 2 = 2$ Triple point - $0.0075^\circ C$ & 4.58 mm Hg $F = 1 - 3 + 2 = 0$ ② Lead-Ag system: - Both metals are completely miscible in all states i.e. Eutectic - Solid lead, Solid Silver, Solid Pb, Ag, Vapour. Two component system, Two curves intersecting at 'c'. Desilverisation of Lead. ③ Salt, water system: - NaCl and ice (20.1°) - $16^\circ C$. ④ Freezing Mixtures: - NaCl and ice (23.0°) - $22^\circ C$. NH_4NO_3 & ice (13.0°) - $18^\circ C$, NaCl H_2O & ice (23.0°) - $22^\circ C$. Examples / Illustrations Additional Inputs Teaching Aids Used References Cited Student Activity Planned after the teaching Any other activity	

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Name of the Lecturer	Y. Durga Prasad
Course / Group	III BSc, Sem-V
Paper	Paper-TC, Industrial Chemistry-2
Name of the Topic	Organic Polymers - I
Hours Required	8
Learning Objectives	To know important definitions, classification of organic polymers.
Previous Knowledge to be reminded	To remind student about polymers in our daily life
Topic Synopsis: Basic definitions: Polymers, degree of polymerisation. Classification: 1) Natural and synthetic polymers: def, explanation with examples. 2) Organic and inorganic polymers: Definitions, explanation with examples. 3) Thermoplastic and thermosetting polymers: Def, properties and examples. 4) Classification based on use: Plastics, elastomers, fibres and resins: Definitions, properties, uses. 5) Classification based on chemical structure: Linear, branched and cross-linked polymers: Def, properties and examples.	
Examples / Illustrations	Samples of some polymers shown
Additional Inputs	Sent YouTube clippings on classification of polymers.
Teaching Aids Used	YouTube clippings on polymers.
References Cited	Text Book: Polymer Science by V.R. Gowarikar et al.
Student Activity Planned after the teaching	Students are assigned with a work to collect articles made of polymers.
Any other activity	Sp test conducted.

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Name of the Lecturer	Y. Durga Prasad
Course / Group	III BSc, Sem - V
Paper	Paper - 7C, Industrial Chemistry - 2
Name of the Topic	Analysis of water - 2
Hours Required	05
Learning Objectives	To learn about determination of water quality parameters
Previous Knowledge to be reminded	Various water pollutants
Topic Synopsis: Total Dissolved Salts (TDS): Permissible values of TDS in drinking water, disadvantages of high TDS value, determination by conductivity method. Turbidity: Cause of turbidity, measurement and removal of turbidity by the addition of electrolytes like alum. Alkalinity: Determination of alkalinity of a water sample. Chloride: Permissible limits of Cl^- in the drinking water, causes of high Cl^- concentrations in water and effects. Determination of Cl^- in water by Mohr's method.	
Examples / Illustrations	Apparatus to determine TDS in water
Additional Inputs	Disadvantages of using hard water in industries
Teaching Aids Used	You Tube clippings for better understanding
References Cited	Environmental Science by A.K. Dey
Student Activity Planned after the teaching	Seminars
Any other activity	slit test. Determination of Cl^- by ppt

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Name of the Department / Subject	Chemistry
Name of the Lecturer	Y. Durga Prasad
Course / Group	III BSc, Sem-V
Paper	Paper - I C, Industrial Chemistry - 2
Name of the Topic	org polymers-2 and air pollution
Hours Required	2 + 8 hrs
Learning Objectives	Prep. and uses of some polymers, sources, effects and control of air pollution
Previous Knowledge to be reminded	Reminded pollution chapter studied in Jr Inter
Topic Synopsis: Organic Polymers - 2 : Industrial manufacturing and applications of polystyrene, polyacrylonitrile, polymethacrylate and polymethylmethacrylate. Unit - 3: Air Pollution : Sources of air pollution - general and specific sources. Acid Rain : Causes, bad effects, control. Photochemical Smog : causes, bad effects. Greenhouse effect : Green house gases and their sources, causes, bad effects and control of global warming. Ozone depletion : Formation of ozone, causes of depletion, role of ozone layer, bad effects and control. Sources and effects of various gaseous pollutants : oxides of nitrogen (NO_x), oxides of sulphur (SO_x), CO, hydrocarbons, suspended particulate matter (SPM). Controlling methods of air pollution : Equipment used in control like electrostatic precipitators etc.	
Examples / Illustrations	Students are advised to collect newspaper clippings relating air pollution
Additional Inputs	Study material, newspaper clippings
Teaching Aids Used	Internet and YouTube.
References Cited	Environmental Science by A.K. Deo.
Student Activity Planned after the teaching	Students are asked to observe the effects of air pollution in their surroundings
Any other activity	Assignments & Seminars

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Name of the Department / Subject	Chemistry
Name of the Lecturer	Dr. N.T. Solomon Babu
Course / Group	B.Sc. Chemistry
Paper	III Spectroscopy & Organic
Name of the Topic	NMR Spectroscopy
Hours Required	4
Learning Objectives	To understand the Principles of NMR
Previous Knowledge to be reminded	Importance of Spin of Nucleus and chemical shift
Topic Synopsis: Nucleus also has Spin Quantum number Each nucleus acts like a Bar magnet, When placed in an external field, some are aligned with external magnetic field and others are against it. They are said to be in α-state and β-state The Difference of energy is dependent on external field strength B_0. All Protons are expected to produce same signals by absorbing Radio waves and re-emitting them However, Protons are not equivalent due to different chemical environments. Ex: $\text{CH}_3\text{-OH}$ - 2 signals TMS is used as ref standard, its $\delta = 0$ Chemical shift is difference in PPM between the Resonance frequency of observed Proton and that of reference	
Examples / Illustrations	Diagrams showing Electromagnetic environment
Additional Inputs	NMR
Teaching Aids Used	PPT
References Cited	org. Spectroscopy - Y.R. Sharma
Student Activity Planned after the teaching	Solving Problems
Any other activity	

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Name of the Department / Subject	CHEMISTRY
Name of the Lecturer	Dr. N.T. SOLOMON BABU
Course / Group	B.Sc. Chemistry
Paper	IV
Name of the Topic	Photochemistry
Hours Required	6
Learning Objectives	To know about Photochemical Reactions & photophysical processes
Previous Knowledge to be reminded	Concept of EMR, absorption shift
Topic Synopsis: In thermochemical reactions, free energy decreases, where as in photochemical reactions, it is less. • Grothius and Draper law: only those radiations which are absorbed by molecule are effective in bringing about a chemical change • Stark Einstein law: Each reacting molecule absorbs one quantum of radiation • The Quantum yield ϕ is supposed to be one • Answer $H_2 + Cl_2 \rightarrow 2HCl$ reaction higher ϕ value and $H_2 + Br_2 \rightarrow 2HBr$ has a very low ϕ value. They can be explained by mechanism • Jablonsky diagram explains various changes taking place in a molecule after absorbing light • Fluorescence & Phosphorescence are two photo physical processes • Photochemical reactions	
Examples / Illustrations	Some luminiscent bodies
Additional Inputs	N/A
Teaching Aids Used	B.D
References Cited	Spectroscopy & physical by Brahmagiri Rao
Student Activity Planned after the teaching	Assignment
Any other activity	

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Name of the Department / Subject	CHEMISTRY
Name of the Lecturer	Dr. N. S. SORAMON B.A.Sc.
Course / Group	B.Sc.
Paper	IV
Name of the Topic	Thermodynamics - 2
Hours Required	5
Learning Objectives	To understand the concepts entropy and the state functions
Previous Knowledge to be reminded	Carnot cycle
Topic Synopsis: From the efficiency of Carnot engine, the new of state function entropy is defined. It is a measure of disorder and probability. Entropy increases in an irreversible process and constant during a reversible process. Helmholtz and Gibbs free energies are very important and used to know the feasibility of a reaction. Third law of Thermodynamics states that entropy of every pure & perfect crystalline substance approaches zero at 0°K. Nernst heat theorem is given by $\lim_{T \rightarrow 0} \frac{d(\Delta G)}{dT} = 0$	
Examples / Illustrations	Expt of Entropy of Natural Process
Additional Inputs	N/A
Teaching Aids Used	PPT
References Cited	Spectroscopy & Physical Chemistry
Student Activity Planned after the teaching	Assignment
Any other activity	Problems

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Name of the Department / Subject	CHEMISTRY
Name of the Lecturer	Dr. H. KUSOMA KUMARI.
Course / Group	Z B.Sc
Paper	Paper I
Name of the Topic	CHEMICAL BONDING -
Hours Required	SIX HOURS.
Learning Objectives	Understand H.O Theory & Conductivity
Previous Knowledge to be reminded	Hybridization
Topic Synopsis:	The covalent bond formed between 2 atoms is explained by Valency Bond Theory (VBT). Hybridisation of atomic orbitals in bond formation. — $sp, sp^1, sp^2, d^2sp^3, d^3sp^3, d^4sp^3$ etc. d^2sp^3 eg PF_5, T shaped, sp^3 — eg: $Ni(CO)_4$ Molecular orbital theory: (MOT) — Linear combinations of atomic orbitals. (MOT) LCAO leads to Bonding and anti bonding orbitals. Energy order of orbitals of N_2 molecule: — $\sigma_{1s} < \sigma_{1s}^* < \sigma_{2s} < \sigma_{2s}^* < \sigma_{2p_x} < \pi_{2p_y} = \pi_{2p_z} < \pi_{2p_y}^* < \pi_{2p_z}^* < \sigma_{2p_x}^*$ Bond order for $N_2 = \frac{NO. \text{ of Bonding orbitals} - \text{Anti bonding orbitals}}{2} = \frac{10 - 4}{2} = 3$. Triple Bond $N_2 = 7 + 7 = 14$, B.O. = $\frac{10 - 4}{2} = 3$. Triple Bond $O_2 = 8 + 8 = 16$, B.O. = $\frac{10 - 6}{2} = 2$, $O=O$ Paramagnetic. CO molecule — $6 + 8 = 14$ electrons. B.O. = $\frac{10 - 4}{2} = 3$ $C \equiv O$ — diamagnetic NO — $7 + 8 = 15$ electrons. B.O. = $\frac{10 - 5}{2} = 2.5$
Examples / Illustrations	Molecular orbital Theory
Additional Inputs	Shapes of orbitals
Teaching Aids Used	Diagrams on the B.O.
References Cited	Unified Chemistry, O.P. Agarwal.
Student Activity Planned after the teaching	Student seminars, Assignment.
Any other activity	Assignment

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Name of the Department / Subject	CHEMISTRY
Name of the Lecturer	Dr. N.J. SOLOMON BABU
Course / Group	B. Sc. MPC > CBZ
Paper	III - Spectroscopy & organic chem
Name of the Topic	Vibrational Spectroscopy
Hours Required	4
Learning Objectives	To know the applications of spectroscopy
Previous Knowledge to be reminded	Principle of Molecular Spectroscopy
Topic Synopsis: Harmonic oscillation & anharmonic oscillation Vibrational degrees of freedom is given by $3N - 6$ for non linear molecules & $3N - 5$ for linear molecules Vibrations are important. They are broadly classified as stretching and bending vibrations. The stretching vibrations are of two types i.e. symmetric and non symmetric.  Bending vibrations are of four types, i.e. in plane and out of plane vibrations. Vibrational transitions are fundamental, first overtone and second overtone etc. There are two regions, functional group region and fingerprint region.	
Examples / Illustrations	Different Vibrations
Additional Inputs	Notes
Teaching Aids Used	Black Board
References Cited	Elementary Org. Spectroscopy, Y.R. Sharma A Shortened and Problem Solving
Student Activity Planned after the teaching	
Any other activity	

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Name of the Department / Subject	CHEMISTRY.
Name of the Lecturer	DR. M. KUSUM KUMARI.
Course / Group	I B Sc II Sem.
Paper	Paper II
Name of the Topic	Chemical Bonding.
Hours Required	06 hrs.
Learning Objectives	Learn about Hybridization & bond types etc.
Previous Knowledge to be reminded	Knows about bonding half-filled orbitals
Topic Synopsis:	1. Overlapping of atomic orbitals having half-filled electrons with of opposite spins is covalent bond or valency bond theory. $\oplus H + \oplus H \rightarrow \oplus \oplus H_2 \text{ molecule}$. 2. Sigma bonds, π bonds. Concept of Hybridization. 3. sp^3, sp^2, sp, sp^3d, sp^3d^2, sp^3d^3 decides the structure of the molecule. 4. Application of V.B theory: eg: ClF_3, PF_5, $Ni(CO)_4$ etc. 5. Molecular orbital theory, LCAO Method. 6. Energy level diagrams for molecular orbitals. 7. Isoelectronic series. 8. Calculating the Bond order for the molecules. 9. More the no. of bonding electrons the higher will be the stability. 10. Relative energies of MO orbitals - $\sigma_{1s} > \sigma_{1s}^* > \sigma_{2s} > \sigma_{2s}^*$ $\pi_{2p_y} = \pi_{2p_z} > \sigma_{2p_x} > \pi_{2p_x} = \pi_{2p_y} > \sigma_{2p_x}^* > \pi_{2p_x}^* = \pi_{2p_y}^* > \sigma_{2p_x}^*$ etc.
Examples / Illustrations	structures on the Board.
Additional Inputs	Google lessons.
Teaching Aids Used	Black Board.
References Cited	O. P. Agarwal Text book.
Student Activity Planned after the teaching	Q & A. Assignment.
Any other activity	Exam.

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Name of the Department / Subject	Chemistry
Name of the Lecturer	Dr. N.V. SOLOMON BABU
Course / Group	B.Sc. MPC & CBZ
Paper	Paper III
Name of the Topic	Halogens compounds
Hours Required	5 hrs
Learning Objectives	Understand SN^1 & SN^2 reactions
Previous Knowledge to be reminded	Hydrocarbons, functional groups
Topic Synopsis: Methods of Preparation of Haloalkanes Nucleophilic substitution reactions follow two types of mechanisms - SN^1 & SN^2. SN^2 mechanism is bimolecular, and rate is dependent on concentrations of alkyl halide and nucleophile. This is carried through a transition state, and Walden inversion takes place. SN^1 mechanism involves the formation of carbocation and rate-determining step takes place. Relative reactivities of alkyl, allyl, benzyl, vinyl, and aryl halides are discussed. SN^1, and SN^2 mechanisms are also studied.	
Examples / Illustrations	Explanation of stereochemistry
Additional Inputs	Notes
Teaching Aids Used	Black Board
References Cited	org. chemistry - Morrison & Boyd
Student Activity Planned after the teaching	Assignments
Any other activity	

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Name of the Department / Subject	Chemistry
Name of the Lecturer	Dr. N.T. GORDON BARR
Course / Group	B.Sc MPC & CBZ
Paper	II
Name of the Topic	Alcohol compounds
Hours Required	5
Learning Objectives	Know the Prep & Properties of ROH, Alcohols
Previous Knowledge to be reminded	Hydrocarbons, Hydroxy Comp
Topic Synopsis: Preparation, Properties and relative reactivities of 1°, 2°, 3° alcohols. Bouvalet Blanc Reduction, Oxidation of alcohols by periodic acid and LTA, Pinacol - Pinacolone Rearrangement. Phenols: Preparation and Properties of; Acidity and factors affecting it; Ring Substitution Reactions Riemer Riemer Reaction and Krich Schmidt Reaction. Artes Rearrangement and mechanism.	
Examples / Illustrations	alcohols monofunctional in nature
Additional Inputs	RTS
Teaching Aids Used	BB
References Cited	Org. Chemistry Morrison & Boyd
Student Activity Planned after the teaching	Assignment
Any other activity	

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Name of the Department / Subject	Chemistry
Name of the Lecturer	Dr. N.J. Suresh Babu
Course / Group	B.Sc. P.T.C. & CBZ
Paper	III
Name of the Topic	Carbonyl comp - I
Hours Required	5
Learning Objectives	Know the types of aldehydes & ketones
Previous Knowledge to be reminded	Hydrocarbons, Hydroxy comp
Topic Synopsis: Nomenclature of aliphatic and aromatic Carbonyl comp Structure of Carbonyl group. Synthesis of aldehydes and Ketones using 1,3 additions. Synthesis of Ketones from nitriles and from Carboxylic acids Physical properties: Reactivity of Carbonyl group in aldehydes and Ketones Nucleophilic addition reactions of aldehydes with NaHSO_3, HCN, R_2NH, NH_2OH, PhNHNH_2, 2,4-DNP etc. Alcohols: Formation of hemiacetals and acetals	
Examples / Illustrations	Some common Carbonyl comp
Additional Inputs	Notes
Teaching Aids Used	B.T
References Cited	Org. Chemistry - Morrison & Boyd
Student Activity Planned after the teaching	Assignment
Any other activity	

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Proforma for Teaching PLAN	
Name of the Department / Subject	CHEMISTRY.
Name of the Lecturer	Dr. H. KUSUMA KUMARI.
Course / Group	I B. Sc II Sem.
Paper	Paper II
Name of the Topic	Alkenes & Alkynes.
Hours Required	12 hrs.
Learning Objectives	Learn about C=C bonds.
Previous Knowledge to be reminded	Knows about hydrocarbons.
Topic Synopsis: - These are the compounds with C=C double bonds & C≡C triple bonds. - Their preparation & properties - These compounds undergo addition reactions. - Addition of halogens through Markownikoff's rule: i.e. the -ve part of the addendum will go to the carbon with the no. of H atoms. But in the presence of peroxides the chain is anti Markownikoff's rule. - Ozone addition indicates the location of the double bond. - Oxidation with different oxidising agents i.e. cold KMnO₄, Peracids, OsO₄, H₂O₂. 1,3 Buta diene - Conjugated diene prep, and proper - Acetylene prep and properties, one sigma bond & 2 bonds between C and carbon, Two weak bonds, Addition, Oxidation, Formation of metal acetylides.	
Examples / Illustrations	Structures on the Board.
Additional Inputs	Google lessons.
Teaching Aids Used	Black Board.
References Cited	O.P. Agarwal Text book.
Student Activity Planned after the teaching	Assignment.
Any other activity	Exam.

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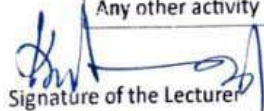
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Name of the Department / Subject	CHEMISTRY
Name of the Lecturer	Dr. H. KUSUMA KUMARI
Course / Group	M.B.Sc.
Paper	Sem VI Paper 6C
Name of the Topic	PAPER INDUSTRY.
Hours Required	5+5-10 hrs
Learning Objectives	To learn manufacture of Pulp & Paper
Previous Knowledge to be reminded	Students know paper & how it is made?
Topic Synopsis:	1. Kraft Pulp. 2. What is pulp, Sulphate wood pulp, Soda pulp, Rag Pulp, Colouring of the pulp 3. Manufacture of paper. 4. Beating of pulp. 5. Filling of Pulp. 6. Refining of Pulp. 7. Sizing of Pulp.
Examples / Illustrations	Different Papers.
Additional Inputs	Google lessons.
Teaching Aids Used	B.B. Materials.
References Cited	Industrial Chemistry - Dr. B.V. Gopal Rao.
Student Activity Planned after the teaching	observing internet for paper
Any other activity	pulp manufacture.


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Name of the Department / Subject	CHEMISTRY
Name of the Lecturer	Dr. M. KUSUMA KUMARI
Course / Group	Sem IV
Paper	Paper VI, Inorganic
Name of the Topic	Reactivity of Metal Complexes
Hours Required	4 hrs.
Learning Objectives	Learn about Substitution reactions of metal complexes.
Previous Knowledge to be reminded	Metals & Metallic Properties.
Topic Synopsis:	Metal-ligand complexes are classified into 2 types. stable and unstable complexes - Thermodynamic classification. Labile and inert complexes is a kinetic classification. 1) The rate at which a ligand 'L' of the complex $[ML_n]$ can be substituted by another ligand 'X' is a kinetic property. 2) If the rate of substitution is high, complex is labile. If the rate of substitution is low, complex is inert. 3) The rate of substitution of a complex depends upon activation energy (E_a) of the substitution process. 4) Ligand substitution reactions are of 2 types - S_N1 & S_N2. 5) Since ligands are nucleophiles (+ve seeking) reactions are called nucleophilic substitution reactions. 6) S_N1 rate $\propto [Complex]$, S_N2 rate $\propto [Complex][Ligand]$ 7) Labile complexes exhibit S_N2 mechanism. CO-ORDINATION mechanism. Inert complexes exhibit S_N1 mechanism. Coordination $\propto$ decreases in the rate determining step. 8) Some groups favour the substitutions of ligands in transition state. This is called trans effect. Groups weaken the diagonal bond. 9) Trans effect is useful in the synthesis of complexes of required config.
Examples / Illustrations	Substitution
Additional Inputs	Rate of Reaction
Teaching Aids Used	B.B.
References Cited	O.P. Agarwal Textbook
Student Activity Planned after the teaching	Assign
Any other activity	Exam

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Name of the Department / Subject	CHEMISTRY
Name of the Lecturer	DR. M. KUSUMA KUMARI
Course / Group	II Sem I B.Sc.
Paper	Paper II
Name of the Topic	Alkanes & cycloalkanes
Hours Required	12 hrs.
Learning Objectives	Learn about prop & prop of alkanes.
Previous Knowledge to be reminded	Know basic organic compounds.
Topic Synopsis:	1. Compounds containing carbon and hydrogen are the simplest org. compounds, with single covalent bond are called <u>alkanes</u>. Carbon undergoes sp^3 hybrid bond angle is $109^\circ 28'$. ② Prep - Wurtz reaction $CH_3-I + 2Na + I-CH_3 \xrightarrow{ether} CH_3-CH_3 + 2NaI$ Corey-House reaction using alkyl lithium, Rmgx we can synthesise alkanes. ③ Prop: - Alkanes undergo substitution reactions. ④ Free radical halogenation - Chain initiation, Propagation and Termination steps. ⑤ Conformational analysis of alkanes. Conformations of n-butane - I Anti (stable) II Gauche III Eclipsed IV Fully eclipsed Conformations are there. ⑥ Cycloalkanes - Prep & properties and stability. ⑦ Baeyer strain theory - $d = \frac{1}{2}(109^\circ 28' - \alpha)$ ⑧ Greater the strain deviation of bond angle from $109^\circ 28'$ greater is the strain.
Examples / Illustrations	Structures on the board.
Additional Inputs	Prep. of the charts.
Teaching Aids Used	Black board.
References Cited	G. P. Agarwal Test book.
Student Activity Planned after the teaching	Q. & A.
Any other activity	Exam.

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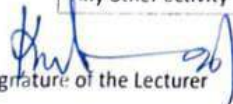
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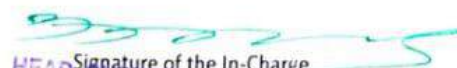
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Name of the Department / Subject	CHEMISTRY
Name of the Lecturer	Dr. V. K. S. K. K. K. K.
Course / Group	M. B. Sc. Sem. VI Paper BC
Paper	BC
Name of the Topic	SPECIAL Sugar Chemistry
Hours Required	8 hours
Learning Objectives	to understand how to manufacture about Sugars
Previous Knowledge to be reminded	
Topic Synopsis :-	1. Estimation of Sucrose through colorimetry solutions required to prepare, instrumentation and experiment and Result. 2. Manufacture of Sucrose from beet root. Sugar beet can grow in temperate climates. 3. Recovery of Sucrose from cane sugar. cane $\rightarrow$ Milling $\rightarrow$ Juice $\rightarrow$ Clarification $\rightarrow$ Evaporation $\rightarrow$ V. Pans $\rightarrow$ Crystallization $\rightarrow$ Bagasse $\rightarrow$ Sugar $\rightarrow$ Crystallization $\rightarrow$ Crystallization 4) Testing of Sugars 5) Sugars - Sucrose is a disaccharide of Carbon, 22 atoms of H and 11 atoms of oxygen. Mol. formula - $C_{12}H_{22}O_{11}$. It is a carbohydrate. 6) Molasses - thick dark to light brown syrup. It is a leftover from sugar cane juice.
Examples / Illustrations	Juice Stalls
Additional Inputs	Prepared Charts
Teaching Aids Used	P. B.
References Cited	Industrial Chemistry - Dr. B. V. Gopal Rao
Student Activity Planned after the teaching	To visit the Sugar Cane in Cesta,
Any other activity	exploring youtube sites.


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Teaching Plan Economics

Andhra Christian College, Guntur	
Proforma for Teaching Synopsis	
Name of the Department / Subject	Economics.
Name of the Lecturer	Dr. N. M. Maudula.
Course / Group	HEP. BA.
Paper	Agricultural Economics.
Name of the Topic	Agriculture Structure - Productivity.
Hours Required	2 (two)
Learning Objectives	To learn about structure & productivity of ag in India.
Previous Knowledge to be reminded	About structure of ag in their village.
Topic Synopsis:	Agriculture is the backbone of the Indian Economy, contributing to around 16.5% of India's GDP & employing over 50% of the workforce. The Indian agriculture market is valued at USD 435.7 billion as of 2022 and is expected to reach USD 520.22 billion by 2028, growing at a CAGR of around 4.7% between 2023 & 2028. The structural transformation is defined as the reallocation of economic activity across three broad sectors (agriculture, manufacturing and services) that accompanies the process of economic growth. Structural transformation is defined as the transition of an economy from low productivity and labour-intensive economic activities to higher productivity and skill-intensive activities. The driving force behind structural transformation is the change of productivity in the modern sector, which is dominated by manufacturing and services. Agricultural productivity in India varies due to factors such as climate & weather conditions.
Examples / Illustrations	Photos of fields, tools & implements.
Additional Inputs	chalk & black board.
Teaching Aids Used	
References Cited	"Indian Economy" by P. Sundaram.
Student Activity Planned after the teaching	To encourage students to discuss about ag productivity in their village.
Any other activity	


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Proforma for Teaching Synopsis

Name of the Department / Subject	Dr. N. M. Reddy, Economics
Name of the Lecturer	Dr. N. M. Reddy, Economics
Course / Group	BA - II MA - 3rd Semester
Paper	III Paper Development Economics
Name of the Topic	Concept of Economic Growth
Hours Required	1
Learning Objectives	Meaning of Economic Growth
Previous Knowledge to be reminded	Topic covered
Topic Synopsis:	Economic Growth is a traditional concept developed in advanced countries like USA, UK etc. Economic growth is indicated by the increase in N.D and per capita income. Economic growth concerns the development of the nation for the increase in national income & per capita income. The concept is narrow with little scope for extensive problems. It is a short term phenomenon. Economic growth began about economic development. Without economic growth there can't be economic development. Measurement of economic growth can take place with the help of N.D & per capita income. Economic growth has led to the development of different countries which were also useful for the development of the developing countries world wide. Economic growth helped in the speedy development of the British & European countries. Economic growth helped in the Industrial Revolution, etc. Economic growth led to the development of the developed countries in Asia, & Africa.
Examples / Illustrations	USA, UK, Canada etc.
Additional Inputs	Students asked to discuss.
Teaching Aids Used	Board & chalk
References Cited	'Economics' - O.A. Samuelson
Student Activity Planned after the teaching	Students asked to explain economic growth
Any other activity	Meaning of Economic Growth

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Proforma for Teaching Synopsis

Name of the Department / Subject	Economics.
Name of the Lecturer	Dr. N. Malha Mandula
Course / Group	HEP - III BA.
Paper	Agricultural Economics
Name of the Topic	Structural Transformation of Indian Industry.
Hours Required	2 hours.
Learning Objectives	Status of Indian Industry, Steps to improve industrial structure.
Previous Knowledge to be reminded	Idea of Indian Industry - Structure.
Topic Synopsis:	Change in final demand and technology are the main driver of labour productivity growth. A number of recent interesting changes in the industrial structure, have provided the backdrop of changes in policy analytic approaches while priority to exports at the current stage of development is well taken, in the last 65 years, industrial annual production went up by five, six times, making India one of the top 10 most industrial nations of the world. The industrial structure has been widely diversified from being only consumer goods to entire range of consumer, intermediate and capital goods. Industrial structure describes the composition of a country's economic activity, the production of human material resources. Industries are usually categorized into three basic types according to their stage within the production process, or the type of value being added to a natural resource.
Examples / Illustrations	Industrial Structure before independence
Additional Inputs	
Teaching Aids Used	Board of chalk.
References Cited	Indian Industry.
Student Activity Planned after the teaching	Present Status of Industry
Any other activity	


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Proforma for Teaching Synopsis

(next Economics)

Andhra Christian College, Guntur	
Proforma for Teaching Synopsis	
Name of the Department / Subject	Economics, Economic Development (1st Economics)
Name of the Lecturer	Dr. N. M. Mudula
Course / Group	BA, 1st, II year, 4th semester
Paper	IV
Name of the Topic	Differences between Eco G & E.D
Hours Required	3
Learning Objectives	To make the student understand
Previous Knowledge to be reminded	Reminded about the development
Topic Synopsis: History of Eco G & E.D. is comprehensive concept, meaning & importance. 1. Eco Growth is a physical phenomenon. 2. Includes NG & PCG 3. Quantitative 4. There can be no dev with out growth. 5. Eco is a traditional concept 6. Concern developed countries 7. Well defined theories 8. Developed in 20th century 9. Can be compared to be physical height growth of man 10. Eco Growth is quantifiable & can measure 1. E.D. is a comprehensive concept. 2. Includes both NG & PCG & other structural concepts. Intellectual & qualitative factors 3. Quantitative & qualitative 4. There can be no dev with out growth. 5. Modern concept 6. Concern developing countries 7. Less developed countries 8. Developed in 19th century 9. Developed in 19th century 10. (E.D) is different upon the all round dev	
Examples / Illustrations	Example EG is USA, & E.D is India
Additional Inputs	
Teaching Aids Used	Board & chalk & map.
References Cited	Indian Economy - Dutt & Saksena
Student Activity Planned after the teaching	Recollection
Any other activity	Identifying countries.


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Proforma for Teaching Synopsis	
Name of the Department / Subject	Economics
Name of the Lecturer	Dr. N.M. Maudula
Course / Group	HEP
Paper	Agricultural Economics
Name of the Topic	Importance of Agricultural sector
Hours Required	2.
Learning Objectives	Meaning of Agriculture Importance.
Previous Knowledge to be reminded	Knowledge of fields, rural area.
Topic Synopsis:	
Agriculture - meaning? Status of agriculture in India - A.P. Contribution of Agricultural sector in India Share of agl. sector in the National Income. - supply food grain to meet the consumption needs of the population. - Help in securing foreign exchange reserves to India, through exports. - source of livelihood to more than 50% of the population in India - Agriculture is the backbone of the rural areas / villages in India. - It is an unorganised sector. It is called the primary sector or the first sector.	
Examples / Illustrations	Growing of paddy, wheat etc.
Additional Inputs	Photo of fields, Photo of different crops.
Teaching Aids Used	Chalk & Board.
References Cited	Dutt & Sundaram, 'Indian Economy'
Student Activity Planned after the teaching	Ask students what crop is cultivated in their village.
Any other activity	


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Proforma for Teaching Synopsis

Name of the Department / Subject	ECONOMICS.
Name of the Lecturer	Dr. N.M. Maudula.
Course / Group	Economics, H.P., III BA
Paper	Agricultural - Economics
Name of the Topic	Disinvestment in India - FEMA
Hours Required	2 hrs.
Learning Objectives	Meaning of disinvestment, FEMA.
Previous Knowledge to be reminded	Meaning of investment.
Topic Synopsis:	Disinvestment is in the form of transfer of share. An Indian Party may transfer by way of sale to another Indian Party which complies with FEMA regulations or to a Person resident outside India, any share or security held by it in an overseas JV or WOS. It is provided that any investment of financial commitment made outside India in accordance with FEMA - where the disinvestment by a person resident in India. 'Disinvestment' means partial or full extinguishment of right, title or possession of equity capital acquired under FEMA Rules. A minority disinvestment is one that at the end of it, the government retains a majority stake in the Company, typically greater than 51%, thus ensuring management control.
Examples / Illustrations	Sugar factory, Steel plant in AP.
Additional Inputs	Eg. govt. as NMDC Steel Limited
Teaching Aids Used	Black Board & chalk.
References Cited	Indian Economy - P.O. Kishore
Student Activity Planned after the teaching	To give examples of disinvestment in India.
Any other activity	


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Andhra Christian College, Guntur Proforma for Teaching Synopsis	
Name of the Department / Subject	ECONOMICS
Name of the Lecturer	Dr. N. M. Mundula
Course / Group	HEP, III BA
Paper	Agricultural Economics
Name of the Topic	Emerging trends in food processing in Indian Agriculture
Hours Required	2 hours
Learning Objectives	change in food processing.
Previous Knowledge to be reminded	Food processing in their village.
Topic Synopsis:	The food processing sector is not only essential in conducting our daily lives, but it is also a significant economic pillar. The route that food takes from the farm to the plate has undergone a sea change over a period. Food processing refers to the conversion of raw agricultural products into value added products for human consumption. The products consumed undergo several processes. processes such as harvesting, cleaning, packing, grading, preserving and transportation. The raw products from agriculture, dairy plant based/poultry meat, etc., undergo processing involving cutting edge technology for post-harvest processing. The food process sector continues to innovate on adopted methods of spray drying, colorants, sweeteners, preservatives, addition of newer blends such as plant based meat, ready to eat, bakery ingredients etc.
Examples / Illustrations	Food processing in pickles, curries
Additional Inputs	eg of food processing.
Teaching Aids Used	Chalk & black board
References Cited	Dr. C. D. N. M. Mundula, 'Indian Economy'
Student Activity Planned after the teaching	to mention food processing they know.
Any other activity	


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Proforma for Teaching Synopsis

Name of the Department / Subject	Economics.
Name of the Lecturer	Dr. N.M. Moudula.
Course / Group	H.E.P. III BA & 6th Semester
Paper	1. Agricultural Economics.
Name of the Topic	Agricultural Reforms & their role in Economic Devt.
Hours Required	2.
Learning Objectives	Explain the role of agriculture in economic development.
Previous Knowledge to be reminded	Idea on Reforms?
Topic Synopsis:	Agricultural reform is a necessity for a nation to sustain food production, responding to global change & safeguarding food and nutritional security. In India, prior to the Green Revolution (wheat & paddy) in the late 1950s & early 1960s, agriculture was unable to sustain the country's growing population, and had to undergo several improvements in order to achieve a self-sustaining agricultural system. So due to the agricultural advancements, as part of the Green Revolution, which improved agricultural facilities, introduced High Yielding Varieties (HYV) to Indian agriculture to what we know today. Such reforms are required to correct certain flaws in the system, which are inevitable and are required for the constant maintenance of the functionality of agricultural system.
Examples / Illustrations	Green Revolution, land reforms.
Additional Inputs	Map on Agriculture in India
Teaching Aids Used	Black board & chalk.
References Cited	'Indian Economy' - A. D. Goradia
Student Activity Planned after the teaching	Recapitulate reforms in agriculture.
Any other activity	


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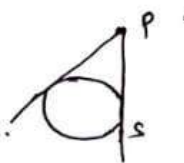
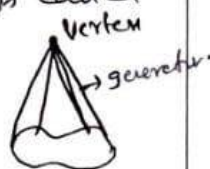
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Proforma for Teaching PLAN	
Name of the Department / Subject	
Name of the Lecturer	
Course / Group	
Paper	
Name of the Topic	
Hours Required	
Learning Objectives	
Previous Knowledge to be reminded	
Topic Synopsis: $y = AU + BV$ be the general solution where $A = - \int \frac{UR dx}{u \cdot v' - u' \cdot u}$; $B = \int \frac{UR dx}{u \cdot v' - u' \cdot u}$ <u>Cauchy-Euler equation</u> : $x^n \cdot \frac{d^2 y}{dx^2} + p_1 \cdot x^{n-1} \frac{dy}{dx} + p_2 \cdot x^{n-2} \frac{d^2 y}{dx^2} + \dots + p_n \cdot y = Q$ Let $x = e^t \Rightarrow t = \log x$; $x D = \frac{d}{dt}$; $x^2 D^2 = \frac{d}{dt}(\frac{d}{dt})$; $x^3 D^3 = \frac{d}{dt}(\frac{d}{dt}(\frac{d}{dt}))$ <u>Legendre's linear Equation</u> : $(ax+b)^n \cdot \frac{d^2 y}{dx^2} + p_1 (ax+b)^{n-1} \frac{dy}{dx} + \dots + p_{n-1} (ax+b) \frac{dy}{dx} + p_n y = Q$ Let $(ax+b)^n D^2 = a^n (\omega(\omega-1)) \dots (\omega-n+1)$ where $\omega = d/dt$.	
Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	
References Cited	
Student Activity Planned after the teaching	
Any other activity	

Signature of the Lecturer *P.M. pradeep*

Bhuvanend
Signature of the In-Charge

M. S. in
Signature of the Principal

Andhra Christian College, Guntur Proforma for Teaching PLAN	
Name of the Department / Subject	Mathematics.
Name of the Lecturer	DR. J.M. Pradeep.
Course / Group	B.Sc / K.A.
Paper	SOLID GEOMETRY - II
Name of the Topic	Cones,
Hours Required	14
Learning Objectives	Students would learn the concept of cone and learn to solve the problems.
Previous Knowledge to be reminded	Students have to have the knowledge of plane, tangent, Normal.
Topic Synopsis: Cone is a surface generated by a st. line which passes through a fixed point and satisfies the condition, i.e. intersects a given curve or touch a given surface. The fixed point is called vertex. The given curve is called the guiding curve of the cone. Let 'S' be a surface and 'P' be a point not on the surface. The surface generated by tangent lines to the external point is called enveloping cone. A cone of second degree is called a quadric cone. $x^2 + y^2 - z^2 = 0$ is a quadric cone. The eqn $ax^2 + by^2 + cz^2 + 2fyz + 2gzx + 2hxy = 0$ represents a quadric cone with its vertex at the origin. $fyz + gzx + hxy = 0$ represents the general eqn of the cone of second degree which passes through the co-ordinate axes.	
Examples / Illustrations	Deeppthi Text book.
Additional Inputs	
Teaching Aids Used	Black board.
References Cited	
Student Activity Planned after the teaching	Home work
Any other activity	



Signature of the Lecturer J.M. Pradeep.

B. K. Srinivas
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Andhra Christian College, Guntur Proforma for Teaching PLAN	
Name of the Department / Subject	
Name of the Lecturer	Dr. J.M. Pradeep.
Course / Group	
Paper	
Name of the Topic	
Hours Required	
Learning Objectives	
Previous Knowledge to be reminded	
Topic Synopsis: <u>Problems:</u> 1) $(D^2 - 4D + 4)y = x^3$. 2) $(D^2 - 2D + 4)y = 8(x^2 + e^{2x} + \sin 2x)$ 3) $(D^2 - 4)y = x^2$ 4) $(D^4 + 6D^2)y = 3x^2 + 4 \sin x - 2 \cos x$. 1) $\frac{d^2y}{dx^2} - 6 \frac{dy}{dx} + 13y = 8e^{3x} \sin 2x$. 2. $(D^2 - 2D)y = e^x \sin x$. 3) $(D^2 - 4D + 3)y = 2xe^{3x} + 3e^x \cos 2x$ 4) $(D^2 - 4D + 1)y = e^{2x} \cos^2 x$. $(D^2 + 4)y = x \sin x$. $(D^4 + 2D^2 + 1)y = x^2 \cos x$ $(D^2 - 2D + 1)y = x e^x \sin x$ $(D^4 - 4D^2 + 4)y = 8x^2 e^x \sin 2x$.	
Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	
References Cited	
Student Activity Planned after the teaching	
Any other activity	

Signature of the Lecturer J.M. Pradeep.


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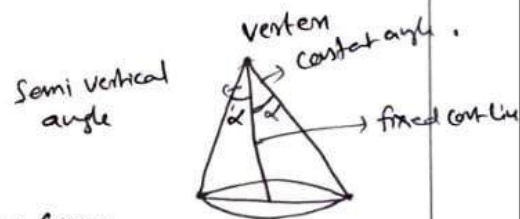
Andhra Christian College, Guntur	
Proforma for Teaching PLAN	
Name of the Department / Subject	
Name of the Lecturer	
Course / Group	
Paper	
Name of the Topic	
Hours Required	
Learning Objectives	
Previous Knowledge to be reminded	
Topic Synopsis:	
3) If $Q = bx^k$ and $f(D) = D - a_0$, $a_0 \neq 0$ i) $f(D) \cdot y = Q \Rightarrow y = \frac{1}{D - a_0} bx^k = \frac{1}{-a_0(1 - \frac{D}{a_0})} bx^k = \frac{1}{a_0} \left(1 - \frac{D}{a_0}\right)^{-1} bx^k$. ii) If $f(D) \cdot y = bx^k$ and $f(D) = c \cdot D^m (1 + \psi(D))$ $\frac{1}{f(D)} bx^k = \frac{1}{c D^m (1 + \psi(D))} bx^k = \frac{1}{c D^m} (1 + \psi(D))^{-1} \cdot bx^k$ where D^m is the lowest power of D in $f(D)$. 4) If $Q = e^{ax} \cdot v$ where v is a function of x. $\frac{1}{f(D)} e^{ax} \cdot v = e^{ax} \cdot \frac{1}{f(D+a)} \cdot v$ 5) If $Q = x \cdot v$ where v is a function of x. $\frac{1}{f(D)} x \cdot v = x \cdot \frac{1}{f(D)} \cdot v - \frac{f'(D)}{[f(D)]^2} \cdot v$	
Examples / Illustrations	from Deepthi Text book.
Additional Inputs	
Teaching Aids Used	
References Cited	
Student Activity Planned after the teaching	
Any other activity	

Signature of the Lecturer *J.M. Pradeep*

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Andhra Christian College, Guntur Proforma for Teaching PLAN	
Name of the Department / Subject	
Name of the Lecturer	
Course / Group	
Paper	
Name of the Topic	
Hours Required	
Learning Objectives	
Previous Knowledge to be reminded	
Topic Synopsis:	
• The locus of the lines through the vertex of the given cone $\perp$ to the tangent planes is called the Reciprocal cone of the given cone. • The reciprocal cone of $ax^2 + by^2 + cz^2 + 2fyz + 2gzx + 2hxy = 0$ $Ax^2 + By^2 + Cz^2 + 2Fyz + 2Gzx + 2Hxy = 0$ where A, B, C, F, G, H are cofactors of a, b, c, f, g, h is the determinant $\begin{vmatrix} a & h & g \\ h & b & f \\ g & f & c \end{vmatrix}.$	
<u>Right circular cone:</u> Every section of a right circular cone by any plane $\perp$ to its axis is a circle.	
Examples / Illustrations	Depth Text book.
Additional Inputs	
Teaching Aids Used	Black board.
References Cited	
Student Activity Planned after the teaching	Home work.
Any other activity	



Signature of the Lecturer *P.M. Pradeep*

B. K. Kumar
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Pradeep
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Proforma for Teaching PLAN

Name of the Department / Subject	
Name of the Lecturer	
Course / Group	
Paper	
Name of the Topic	
Hours Required	
Learning Objectives	
Previous Knowledge to be reminded	
Topic Synopsis: The general equation of second degree $ax^2+by^2+cz^2+2fyz+2gzx+2hxy+d=0$ represents a cone if $\begin{vmatrix} a & h & g & u \\ h & b & f & v \\ g & f & c & w \\ u & v & w & d \end{vmatrix} = 0.$ the cone $ax^2+by^2+cz^2+2fyz+2gzx+2hxy=0$ have 3 mutually perpendicular planes if $a+b+c=0$. The plane $lx+my+nz=0$ touches the cone $ax^2+by^2+cz^2+2fyz+2gzx+2hxy=0$ is $\begin{vmatrix} a & h & g & l \\ h & b & f & m \\ g & f & c & n \\ l & m & n & 0 \end{vmatrix} = 0.$	
Examples / Illustrations	from Deepthi Text book.
Additional Inputs	
Teaching Aids Used	
References Cited	
Student Activity Planned after the teaching	
Any other activity	

Signature of the Lecturer *Sy. Pradeep.*

B. K. Kumar
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Andhra Christian College, Guntur	
Proforma for Teaching PLAN	
Name of the Department / Subject	Mathematics.
Name of the Lecturer	Dr. J.M. Pradeep.
Course / Group	B.Sc / B.A.
Paper	Differential Equation.
Name of the Topic	Higher order differential Equation.
Hours Required	10.
Learning Objectives	Students could learn C.D.E with non-constant coefficients, constant coefficients, Variation parameters, etc.
Previous Knowledge to be reminded	Solving P.I of different forms.
Topic Synopsis: Equation of the form $\frac{d^2y}{dx^2} + p \frac{dy}{dx} + Qy = R$, where p, Q, R are functions of x is called C.D.E with non-constant coefficients. - Finding the integral in C.F. by inspection method $y = e^x$ is a part of C.F. if $1 + p + Q = 0$. $y = e^{-x}$ is a part of C.F. if $1 - p + Q = 0$. $y = e^{mx}$ is a part of C.F. if $m^2 + mp + Q = 0$. $y = x$ is a part of C.F. if $p + Qx = 0$. $y = x^2$ is a part of C.F. if $2 + 2px + Qx^2 = 0$. $y = x^m$ is a part of C.F. if $m(m-1) + pm + Qx^m = 0$. - Method of Variation of Parameters: Given linear eqn is $\frac{d^2y}{dx^2} + p \frac{dy}{dx} + Qy = R$. — (1) It's homogeneous eqn is $\frac{d^2y}{dx^2} + p \frac{dy}{dx} + Qy = 0$. — (2) Let $y_c = c_1 u(x) + c_2 v(x)$ be the general solution of (2) $y = u(x)$; $y = v(x)$ are L.I solutions.	
Examples / Illustrations	from Deepthi text book.
Additional Inputs	
Teaching Aids Used	Black Board.
References Cited	
Student Activity Planned after the teaching	Home work.
Any other activity	Assignments.

Signature of the Lecturer J.M. Pradeep.


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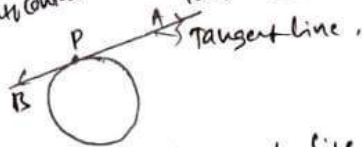
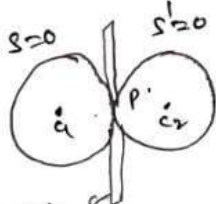
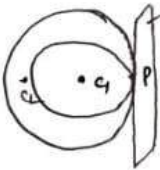

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Andhra Christian College, Guntur Proforma for Teaching PLAN	
Name of the Department / Subject	
Name of the Lecturer	
Course / Group	
Paper	
Name of the Topic	
Hours Required	
Learning Objectives	
Previous Knowledge to be reminded	
Topic Synopsis: Suppose $f(D) \cdot y = Q$ is a L.D.E: $\frac{1}{f(D)}$ is the particular Integral. <u>Methods of finding Particular Integral:</u> 1) If $Q = b \cdot e^{ax}$, where 'a' is a constant. P.I. $\frac{1}{f(D)} b e^{ax} = \frac{1}{f(a)} b e^{ax}$ if $f(a) \neq 0$ $= b \frac{e^{ax}}{\psi(a)}$ if $f(a) = 0$ $\psi(a) \neq 1$. 2) If $Q = \sin(ax+b)$ (or) $\cos(ax+b)$ P.I. $\frac{1}{f(D)} \sin(ax+b)$ or $\cos(ax+b)$ put $D^2 = -a^2$ if $f(-a^2) \neq 0$. If $D^2 + a^2$ is a factor of $f(D)$ i.e. $f(-a^2) = 0$ then write $f(D) = (D^2 + a^2)^n \psi(D)$ replace D^2 in $\psi(D)$ by $-a^2$ and then using $\frac{1}{(D^2 + a^2)^n} b \cos ax = \frac{(-1)^n x^{2n}}{n! (2a)^n} \cdot b \cos\left(ax + \frac{(2n-1)\pi}{2}\right)$. <u>Problems:</u> $(D^3 - 5D^2 + 8D - 4)y = e^{2x}$ $(D^2 + 9)y = \cos^2 x$ $(D^4 - 3D + 2)y = \cosh x$ $(D^2 - 4D + 3)y = \sin x \cdot \cos x$ $\frac{d^2 y}{dx^2} + 4y = e^x + \sin x + \cos x$.	
Examples / Illustrations	from Deepthi text book.
Additional Inputs	
Teaching Aids Used	
References Cited	
Student Activity Planned after the teaching	
Any other activity	

Signature of the Lecturer *P.M. Pradeep*.

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Andhra Christian College, Guntur Proforma for Teaching PLAN	
Name of the Department / Subject	
Name of the Lecturer	
Course / Group	
Paper	
Name of the Topic	
Hours Required	
Learning Objectives	
Previous Knowledge to be reminded	
Topic Synopsis: If a plane does not pass through the centre of a sphere and intersects the sphere then the plane section is called semi-circle. • The eqn of sphere which intersect with a plane is $S + \lambda U = 0$. Point Contact - length of tangent  length of the Tangent line from B to the sphere S=0 is $\sqrt{S_{11}}$. $S=0$ $S'=0$  Common Tangent plane $Q_1 Q_2 = r_1 + r_2$ P divides $C_1 C_2$ in the ratio $r_1 : r_2$ internally.  $Q_1 Q_2 = r_1 - r_2$ P divides $C_1 C_2$ in the ratio $r_1 : r_2$ externally.	
Examples / Illustrations	from Deepthi Text book.
Additional Inputs	
Teaching Aids Used	
References Cited	
Student Activity Planned after the teaching	
Any other activity	

Signature of the Lecturer J.M. Pradeep.

B. Kumar
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W. S. R.
Signature of the Principal

Andhra Christian College, Guntur	
Proforma for Teaching PLAN	
Name of the Department / Subject	Mathematics.
Name of the Lecturer	Dr. J.M. PRADEEP.
Course / Group	B.Sc
Paper	Differential Equations Paper-I
Name of the Topic	Higher order D.E (1) - 18 " " (2) - 19
Hours Required	23.
Learning Objectives	Learn the concept of H.O.D.E, C.D.E, C.F P.I. solving F.O.D.E.
Previous Knowledge to be reminded	
Topic Synopsis: - A linear differential equation of order 'n' can be written as $\frac{dy}{dx^n} + P_1 \frac{dy}{dx^{n-1}} + P_2 \frac{dy}{dx^{n-2}} + \dots + P_n y = Q$. where $P_1, P_2, \dots, P_n$ are continuous functions on an interval I. - The differential operator. $\frac{d}{dx}, \frac{d^2}{dx^2}, \frac{d^3}{dx^3}, \dots, \frac{d^n}{dx^n}$ are respectively denoted by $D, D^2, D^3, \dots, D^n$. - A linear differential equation can be represented as $f(D)y = Q$ which is called operator form. - The general solution of $f(D)y = Q$ is $y = y_c + y_p$ where y_c is the general solution also called complementary function and y_p is called the particular integral. - If $f(D) = 0$ is an nth order D.E then $f(m) = 0$ is called auxiliary Equation. <u>Nature of Roots</u> 1) Real and distinct roots $m_1, m_2, \dots, m_k$ 2) Real root 'm' repeated k times $e^{mx} (C_1 x^{k-1} + C_2 x^{k-2} + \dots + C_k)$ 3) Complex roots $\alpha \pm i\beta$ $e^{\alpha x} (C_1 \cos \beta x \pm C_2 \sin \beta x)$ 4) Repeated complex roots $e^{\alpha x} [C_1 x^{k-1} + C_2 x^{k-2} + \dots + C_k] \cos \beta x + (C_{k+1} x^{k-1} + C_{k+2} x^{k-2} + \dots) \sin \beta x$ <u>Terms in C.F :</u> $C_1 e^{m_1 x} + C_2 e^{m_2 x} + \dots + C_k e^{m_k x}$ $(C_1 x^{k-1} + C_2 x^{k-2} + \dots + C_k) e^{mx}$ $e^{\alpha x} (C_1 \cos \beta x \pm C_2 \sin \beta x)$ $e^{\alpha x} [C_1 x^{k-1} + C_2 x^{k-2} + \dots + C_k] \cos \beta x + (C_{k+1} x^{k-1} + C_{k+2} x^{k-2} + \dots) \sin \beta x$	
Examples / Illustrations	from Deepthi Text Book
Additional Inputs	
Teaching Aids Used	Black Board & Chalk.
References Cited	
Student Activity Planned after the teaching	Home work.
Any other activity	

Signature of the Lecturer J.M. Pradeep.


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Andhra Christian College, Guntur	
Proforma for Teaching PLAN	
Name of the Department / Subject	
Name of the Lecturer	
Course / Group	
Paper	
Name of the Topic	
Hours Required	
Learning Objectives	
Previous Knowledge to be reminded	
Topic Synopsis: • The eqn of a plane of contact of the external point (x_1, y_1, z_1) • If 'd' is the distance b/w the centres of two intersecting Spheres $S=0, S'=0$ (or) radii r_1, r_2 and θ is the angle of intersection of the Spheres at a common point 'P' $\cos \theta = \pm \frac{r_1^2 + r_2^2 - d^2}{2r_1 r_2}$. • Two intersecting Spheres are said to be orthogonal sphere (or) cut orthogonally if the angle of intersection of the sphere is $\frac{\pi}{2}$. • A system of Spheres is said to be coaxial system of spheres if any two Spheres of the system have the same Radical plane. • The point sphere is a coaxial system of spheres are called limiting points of the coaxial system. • The limiting points of the coaxial system $x^2 + y^2 + z^2 + 2\lambda x + d = 0$ & sphere as $(\pm \sqrt{d}, 0, 0)$.	
Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	
References Cited	
Student Activity Planned after the teaching	
Any other activity	

Signature of the Lecturer *J.M. Prasad*

B. Kumar
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Andhra Christian College, Guntur	
Proforma for Teaching PLAN	
Name of the Department / Subject	
Name of the Lecturer	
Course / Group	
Paper	
Name of the Topic	
Hours Required	
Learning Objectives	
Previous Knowledge to be reminded	
Topic Synopsis: - Equation of the plane containing the lines $L_1 = 0$ and $L_2 = 0$ is $\begin{vmatrix} x-x_1 & y-y_1 & z-z_1 \\ l_1 & m_1 & n_1 \\ l_2 & m_2 & n_2 \end{vmatrix} = 0.$ - Two lines are said to be skew lines if there exists no plane passing through them. 'l' and 'm' are two skew lines. If 'p' is a point on 'l' and 'q' is a point on 'm' s.t. $\overrightarrow{pq} \perp l$ and $\overrightarrow{pq} \perp m$. Then $\overrightarrow{pq}$ is called Shortest distance and $\overrightarrow{pq}$ is called Shortest distance line b/w the lines 'l' and 'm'. - The S.D. between the skew lines $\vec{r} = \vec{a} + t\vec{b}$ and $\vec{r} = \vec{c} + s\vec{d}$ is $\frac{ [\vec{a}-\vec{c} \ \vec{b} \ \vec{d}] }{ \vec{b} \times \vec{d} }.$	
Examples / Illustrations	Problems in Deepthi Book
Additional Inputs	
Teaching Aids Used	
References Cited	
Student Activity Planned after the teaching	
Any other activity	

Signature of the Lecturer J.M. pradeep.

Bhaskar
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M. Srinivas
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Andhra Christian College, Guntur	
Proforma for Teaching PLAN	
Name of the Department / Subject	
Name of the Lecturer	
Course / Group	
Paper	
Name of the Topic	
Hours Required	
Learning Objectives	
Previous Knowledge to be reminded	
Topic Synopsis:	
- the eqn of a plane of contact of the external point (x_1, y_1, z_1) w.r.t the Sphere $S=0$ is $S_1=0$. $xx_1 + yy_1 + zz_1 + \lambda(x+x_1) + \mu(y+y_1) + \nu(z+z_1) + d = 0$ - Let $S=0$ be the Sphere and P be a given point. The locus of the points such that the plane of contact of each point w.r.t Sphere $S=0$ passing through P is a plane called Polar plane of P w.r.t $S=0$. Point P is called pole of the polar plane. - eqn of the polar plane of the point (x_1, y_1, z_1) w.r.t the Sphere $S=0$ is $S_1=0$. - the pole of the plane $lx+my+nz=p$ ($p \neq 0$) w.r.t to the Sphere $S=0$ is $S_1=0$. - the pole of the plane $lx+my+nz=p$ ($p \neq 0$) w.r.t the sphere $x^2+y^2+z^2=a^2$ is $(\frac{a^2 l}{p}, \frac{a^2 m}{p}, \frac{a^2 n}{p})$. - Two points A & P are said to be conjugate points w.r.t $S=0$ if the polar plane of A passes through P.	
Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	
References Cited	
Student Activity Planned after the teaching	
Any other activity	

Signature of the Lecturer *J.M. Pradeep*

B. Lakshmi
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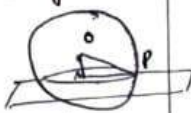
Andhra Christian College, Guntur
Proforma for Teaching PLAN

Name of the Department / Subject	
Name of the Lecturer	
Course / Group	
Paper	
Name of the Topic	
Hours Required	
Learning Objectives	
Previous Knowledge to be reminded	
Topic Synopsis: The general equation of second degree $ax^2+by^2+cz^2+2fyz+2gzx+2hxy+2ux+2vy+2wz+d=0$ represents a cone if $\begin{vmatrix} a & h & g & u \\ h & b & f & v \\ g & f & c & w \\ u & v & w & d \end{vmatrix} = 0.$ the cone $ax^2+by^2+cz^2+2fyz+2gzx+2hxy=0$ have mutually perpendicular if $a+b+c=0$. the plane $lx+my+nz=0$ touches the cone $ax^2+by^2+cz^2+2fyz+2gzx+2hxy=0$ is $\begin{vmatrix} a & h & g & l \\ h & b & f & m \\ g & f & c & n \\ l & m & n & 0 \end{vmatrix} = 0.$	
Examples / Illustrations	from Deepthi Text book.
Additional Inputs	
Teaching Aids Used	
References Cited	
Student Activity Planned after the teaching	
Any other activity	

Signature of the Lecturer *Jyoti Pradeep*

B. K. Kumar
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Pradeep
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Andhra Christian College, Guntur Proforma for Teaching PLAN	
Name of the Department / Subject	Mathematics.
Name of the Lecturer	DR. J.M. PRADEEP.
Course / Group	B.Sc
Paper	Spherical . SOLID GEOMETRY.
Name of the Topic	Spheres
Hours Required	12.
Learning Objectives	Learn about concept of Sphere, plane section of a Sphere, Tangent, Normal. Co-axial Spheres.
Previous Knowledge to be reminded	circle, centre, Radius, Tangent, Normal.
Topic Synopsis: the locus of the points in space which are at a constant distance 'a' from a fixed point 'c' is called a sphere. fixed point is called centre and constant distance is called Radius of the sphere. If the radius is 1 unit the sphere is called <u>unit sphere</u>. If the radius is '0' it is called <u>point sphere</u>.  General eqn of the sphere with centre (x_1, y_1, z_1) and radius a is $(x-x_1)^2 + (y-y_1)^2 + (z-z_1)^2 = a^2$. If $x^2 + y^2 + z^2 + 2ux + 2vy + 2wz + d = 0$ with centre $(-u, -v, -w)$ and radius $\sqrt{u^2 + v^2 + w^2 - d}$. Standard equation of the sphere $x^2 + y^2 + z^2 = a^2$. - Eqn of the sphere on the join of $A(x_1, y_1, z_1)$; $B(x_2, y_2, z_2)$ as ends of diameter is $(x-x_1)(x-x_2) + (y-y_1)(y-y_2) + (z-z_1)(z-z_2) = 0$. - The plane section of a sphere is a circle $OM^2 + MP^2 = OP^2$. Centre of the plane section is M and radius $MP = \sqrt{OP^2 - OM^2}$.  - If the plane passes through the centre of the sphere then the plane section of the sphere is called Great circle.	
Examples / Illustrations	from Deepthi Text book.
Additional Inputs	
Teaching Aids Used	Black board.
References Cited	
Student Activity Planned after the teaching	Home work.
Any other activity	

Signature of the Lecturer J.M. Pradeep.


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Andhra Christian College, Guntur	
Proforma for Teaching PLAN	
Name of the Department / Subject	
Name of the Lecturer	
Course / Group	
Paper	
Name of the Topic	
Hours Required	
Learning Objectives	
Previous Knowledge to be reminded	
Topic Synopsis: - the equation of the plane containing line ① and S.D. line $1) \begin{vmatrix} x-x_1 & y-y_1 & z-z_1 \\ l_1 & m_1 & n_1 \\ m_1n_2-m_2n_1 & n_1l_2-n_2l_1 & l_1m_2-l_2m_1 \end{vmatrix} = 0.$ - the eqn of the plane containing line ② and S.D. line is $\begin{vmatrix} x-x_2 & y-y_2 & z-z_2 \\ l_2 & m_2 & n_2 \\ m_2n_1-m_1n_2 & n_2l_1-n_1l_2 & l_2m_1-l_1m_2 \end{vmatrix} = 0.$ Problems: 1) Find the S.D. and the eqn of the S.D. line b/w the lines $\frac{x}{2} = \frac{y}{-3} = \frac{z}{1}$; $\frac{x-2}{3} = \frac{y-1}{-5} = \frac{z+2}{2}$ 2) Find the S.D. b/w the lines $\frac{x-3}{3} = \frac{y+7}{1} = \frac{z-3}{1}$; $\frac{x+3}{-3} = \frac{y+7}{2} = \frac{z-6}{4}$. Also find the point in which the line meets the given lines. 3) Find the S.D. and eqn of S.D. line b/w the lines $\frac{x}{4} = \frac{y+1}{3} = \frac{z-2}{2}$; $3x-2y+z+2=0$ $= x-3y+z$	
Examples / Illustrations	Problems in Deepthi Book
Additional Inputs	
Teaching Aids Used	
References Cited	
Student Activity Planned after the teaching	
Any other activity	

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Proforma for Teaching PLAN	
Name of the Department / Subject	Mathematics.
Name of the Lecturer	Dr. J. M. PRADEEP.
Course / Group	B.Sc
Paper	SOLID GEOMETRY
Name of the Topic	LINES
Hours Required	12
Learning Objectives	Students would learn to solve the problems on lines, Co-planer lines, Skew lines and S.D.B.W.
Previous Knowledge to be reminded	
Topic Synopsis: General Equation of a line $a_1x + b_1y + c_1z + d_1 = 0 = a_2x + b_2y + c_2z + d_2$ Parametric form of a line $x = x_1 + sm; y = y_1 + sm; z = z_1 + sm$. Symmetric form of a line $\frac{x-x_1}{l} = \frac{y-y_1}{m} = \frac{z-z_1}{n} = s$ (say). Equation of a line passing through (x_1, y_1, z_1) and having dir's (a, b, c) as $\frac{x-x_1}{a} = \frac{y-y_1}{b} = \frac{z-z_1}{c}$. Problems: 1) Find the foot of the $\perp$l from $(2, -2, 3)$ to the plane $2x - y - 3z - 9 = 0$. 2) Find the foot of the $\perp$l and $\perp$l distance from $(4, 0, -3)$ to the line $\frac{x-3}{2} = \frac{y+1}{-3} = \frac{z-5}{2}$. 3) Find the image of the point $(2, -1, 3)$ in the plane $3x - 2y + z = 9$. 4) Find the image of the line $\frac{x-1}{2} = \frac{y}{-1} = \frac{z+1}{2}$ in the plane $2x + y - 3z - 4 = 0$. 5) Find in symmetric form the equations of the line $2x + 3y - z - 6 = 0 = 2x + 3y - z - 8$.	
Examples / Illustrations	Examples from Deepthi Text book.
Additional Inputs	
Teaching Aids Used	
References Cited	
Student Activity Planned after the teaching	
Any other activity	

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Andhra Christian College, Guntur
Proforma for Teaching PLAN

Name of the Department / Subject	
Name of the Lecturer	
Course / Group	
Paper	
Name of the Topic	
Hours Required	
Learning Objectives	
Previous Knowledge to be reminded	
Topic Synopsis: • the line $\frac{x-x_1}{l} = \frac{y-y_1}{m} = \frac{z-z_1}{n}$ is parallel to $ax+by+cz+d=0$ $(\Rightarrow) al+bm+cn=0$ • the line $\frac{x-x_1}{l} = \frac{y-y_1}{m} = \frac{z-z_1}{n}$ is $\perp$ to $ax+by+cz+d=0 (\Rightarrow) \frac{a}{l} = \frac{b}{m} = \frac{c}{n}$. • the line $\frac{x-x_1}{l} = \frac{y-y_1}{m} = \frac{z-z_1}{n}$ lies in the plane $ax+by+cz+d=0 (\Rightarrow)$ $ax_1+by_1+cz_1+d=0 ; al+bm+cn=0$. Problems: 1) eqn of the plane containing the line $\frac{x-1}{2} = \frac{y+1}{-1} = \frac{z-3}{4}$ and $\perp$ to $x+2y+z-12=0$. 2) Eqn of the plane through the points $(2,-1,0)$ $(3,-4,5)$ and Parallel to the line $3x=2y=z$. • Two lines are coplanar if they lie in the same plane $\frac{x-x_1}{l_1} = \frac{y-y_1}{m_1} = \frac{z-z_1}{n_1}$ and $\frac{x-x_2}{l_2} = \frac{y-y_2}{m_2} = \frac{z-z_2}{n_2}$ are coplanar if. $\begin{vmatrix} x_2-x_1 & y_2-y_1 & z_2-z_1 \\ l_1 & m_1 & n_1 \\ l_2 & m_2 & n_2 \end{vmatrix} = 0$	
Examples / Illustrations	Problems in Depth Book
Additional Inputs	
Teaching Aids Used	
References Cited	
Student Activity Planned after the teaching	
Any other activity	

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Andhra Christian College, Guntur
Proforma for Teaching PLAN

Name of the Department / Subject	
Name of the Lecturer	
Course / Group	
Paper	
Name of the Topic	
Hours Required	
Learning Objectives	
Previous Knowledge to be reminded	
Topic Synopsis: - If the angle b/w one of the given planes and one of the angle bisector is less than $\pi/4$, then the angle bisector is acute angle bisector and the other is obtuse angle bisector. - The equation $ax^2+by^2+cz^2+2fyz+2gzx+2hxy=0$ represents a pair of planes passing through the origin iff $abc+2fgh-af^2-bg^2-ch^2=0$ $f^2 \geq bc$; $g^2 \geq ac$; $h^2 \geq ab$. $H \equiv ax^2+by^2+cz^2+2fyz+2gzx+2hxy=0$ represents a pair of parallel planes iff $a+b+c=0$ - represents coincident planes iff $f^2=bc$; $g^2=ac$; $h^2=ab$. - The D.R's of the line of intersection of the planes represented by $H \equiv ax^2+by^2+cz^2+2fyz+2gzx+2hxy=0$ are $\sqrt{f^2-bc}$; $\sqrt{g^2-ac}$; $\sqrt{h^2-ab}$.	
Examples / Illustrations	Problems in Depptha Book
Additional Inputs	
Teaching Aids Used	
References Cited	
Student Activity Planned after the teaching	
Any other activity	

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Andhra Christian College, Guntur Proforma for Teaching PLAN	
Name of the Department / Subject	Mathematics.
Name of the Lecturer	Dr. J.M. Pradeep.
Course / Group	B.Sc (MPC & Comp.Sc)
Paper	II - SOLID GEOMETRY.
Name of the Topic	Planes
Hours Required	15
Learning Objectives	Students learn about different types of planes, D.W.Tenn. And how them.
Previous Knowledge to be reminded	2D Geometm, D.C's & Dir's
Topic Synopsis: Three Dimensional co-ordinate system Rectangular co-ordinate system divides the space into 8 parts called octants. Direction Cosines and Direction Ratios D.C's: If a ray makes angles α, β, γ with the direction of co-ordinate axes then $\cos \alpha, \cos \beta, \cos \gamma$ are called d.c's they are denoted by l, m, n dir's are denoted by (a, b, c). • A surface is called a plane surface or a plane if all the points of a straight line joining any two points on its surface lie on it. • General equation of the plane is $ax+by+cz+d=0$ where a, b, c are dir's of the normal to the plane. • Normal form of the plane is $lx+my+nz=p$. where l, m, n are d.c's of the normal and p is the distance from origin to the plane. • Its distance from (x_1, y_1, z_1) to the plane $ax+by+cz+d=0$ is $\frac{ ax_1+by_1+cz_1+d }{\sqrt{a^2+b^2+c^2}}$. • Intercept form $\frac{x}{a} + \frac{y}{b} + \frac{z}{c} = 1$.	
Examples / Illustrations	From deeper's textbook
Additional Inputs	
Teaching Aids Used	Black Board /
References Cited	
Student Activity Planned after the teaching	Home work.
Any other activity	

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Andhra Christian College, Guntur Proforma for Teaching PLAN	
Name of the Department / Subject	
Name of the Lecturer	
Course / Group	
Paper	
Name of the Topic	
Hours Required	
Learning Objectives	
Previous Knowledge to be reminded	
Topic Synopsis: Angle b/w two planes $a_1x + b_1y + c_1z + d_1 = 0$ & $a_2x + b_2y + c_2z + d_2 = 0$ $\cos \theta = \frac{a_1a_2 + b_1b_2 + c_1c_2}{\sqrt{a_1^2 + b_1^2 + c_1^2} \cdot \sqrt{a_2^2 + b_2^2 + c_2^2}}$ - the distance b/w two parallel planes $a_1x + b_1y + c_1z + d_1 = 0$ & $a_2x + b_2y + c_2z + d_2 = 0$ is $\frac{ d_1 - d_2 }{\sqrt{a^2 + b^2 + c^2}}$. - the Ratio in which the plane $\pi = ax + by + cz + d = 0$ divides the line segment joining $A(x_1, y_1, z_1)$ & $B(x_2, y_2, z_2)$ is $-\pi_{11} : \pi_{22}$. Problems on above Topics. - the equation of any plane passing through the line of intersection of the planes $\pi_1 = 0$, $\pi_2 = 0$ is $\pi_1 + \lambda \pi_2 = 0$; λ is a parameter. - the equation of the planes bisecting the angles b/w the planes $a_1x + b_1y + c_1z + d_1 = 0$; $a_2x + b_2y + c_2z + d_2 = 0$ are $\frac{a_1x + b_1y + c_1z + d_1}{\sqrt{a_1^2 + b_1^2 + c_1^2}} \pm \frac{a_2x + b_2y + c_2z + d_2}{\sqrt{a_2^2 + b_2^2 + c_2^2}} = 0.$	
Examples / Illustrations	Deegtha Text book
Additional Inputs	
Teaching Aids Used	
References Cited	
Student Activity Planned after the teaching	
Any other activity	

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Proforma for Teaching PLAN

Name of the Department / Subject	Mathematics
Name of the Lecturer	Dr. J.M. PRADEEP.
Course / Group	B.Sc
Paper	I,
Name of the Topic	Differential Equations
Hours Required	12
Learning Objectives	Students would learn the concept of orthogonal Trajectories.
Previous Knowledge to be reminded	Differentiation, Integration, polar co-ordinates.
Topic Synopsis:	

Orthogonal Trajectories : Cartesian Co-ordinates:

The given equation is $f(x, y, c) = 0$.

* $F(x, y, \frac{dy}{dx}) = 0$ is the differential eqn of the given equation.

* Eliminate 'c' from the given family of curves

$f(x, y, c) = 0$.

* Replace $\frac{dy}{dx}$ by $-\frac{dx}{dy}$ in $f(x, y, \frac{dy}{dx}) = 0$ of the family of orthogonal Trajectories

* Solve the diff. eqn $F(x, y, -\frac{dx}{dy}) = 0$ to get the required family of orthogonal Trajectories.

Examples / Illustrations	from Deepthi Textbook.
Additional Inputs	
Teaching Aids Used	Black board & chalk.
References Cited	
Student Activity Planned after the teaching	Home work given.
Any other activity	

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Andhra Christian College, Guntur Proforma for Teaching PLAN	
Name of the Department / Subject	Mathematics
Name of the Lecturer	Dr. T.M. PRADDEEP.
Course / Group	B.Sc
Paper	I, Differential Equations.
Name of the Topic	Linear D.E's of first order.
Hours Required	
Learning Objectives	To learn the concept of L.D.E.
Previous Knowledge to be reminded	order and Degree of D.E.
Topic Synopsis: * Linear Differential Equation of first order $\frac{dy}{dx} + p \cdot y = Q$, where 'p' and 'Q' are functions of 'x' only. I.P. $e^{\int p \cdot dx}$. Solution is given by $y(I.P) = \int Q(I.P) dx + c$ $\frac{dx}{dy} + p \cdot x = Q$, where 'p' and 'Q' are functions of 'y' only. I.P. $e^{\int p \cdot dy}$. Solution is given by $x(I.P) = \int Q(I.P) dy + c$ Bernoulli's equation: $\frac{dy}{dx} + p \cdot y = Q \cdot y^n$, where 'p' and 'Q' are functions of 'x' only. Solution is given by dividing eqn with y^n and putting $y^{1-n} = v$ so that $y^{-n} \cdot \frac{dy}{dx} = \frac{1}{1-n} \frac{dv}{dx}$ and converting into linear D.E. of the form $\frac{dv}{dx} + p'v = Q$.	
Examples / Illustrations	Deepthi Text book.
Additional Inputs	
Teaching Aids Used	Black Board and chalk.
References Cited	
Student Activity Planned after the teaching	Home work.
Any other activity	Assignments.

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Andhra Christian College, Guntur	
Proforma for Teaching PLAN	
Name of the Department / Subject	Mathematics.
Name of the Lecturer	DR. J.M. PRADEEP.
Course / Group	B.Sc. (M.P.C) or M.P.C.S.
Paper	I.
Name of the Topic	Differential Equations.
Hours Required	12.
Learning Objectives	Students would learn the concept of Non-exact D.E's and solutions.
Previous Knowledge to be reminded	Exact D.E.
Topic Synopsis: * Non-exact D.E's (Equations Reducible to exact) <u>Integrating factors:</u> 1) Inspection Method. (2) Integrating factor of the form $\frac{1}{Mx+Ny}$, when M, N are homogeneous functions of x and y. 3) Integrating factor of the form $\frac{1}{Mx-Ny}$ when M and N are Non-homogeneous and $Mdx+Ndy=0$ is of the form $f(xy)xdx + f(xy)ydy = 0$. 4) If $\frac{\frac{\partial M}{\partial y} - \frac{\partial N}{\partial x}}{N} = f(x)$, where f(x) is a function of x only Then I.P. is $e^{\int f(x) dx}$. 5) If $\frac{\frac{\partial N}{\partial x} - \frac{\partial M}{\partial y}}{M} = g(y)$, where g(y) is a function of y only. Then I.F. is $e^{\int g(y) dy}$.	
Examples / Illustrations	Deepthi Text book.
Additional Inputs	
Teaching Aids Used	Black Board and Chalk.
References Cited	
Student Activity Planned after the teaching	Home work.
Any other activity	Assignment & Seminar.

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Andhra Christian College, Guntur	
Proforma for Teaching PLAN	
Name of the Department / Subject	Mathematics
Name of the Lecturer	Dr. J. M. PRADEEP.
Course / Group	B.Sc
Paper	I, Differential Equations
Name of the Topic	First order and First Degree D.E's
Hours Required	12
Learning Objectives	Students would learn the concept of exact, non-exact, D.E's Bernoulli's eq.
Previous Knowledge to be reminded	Bridge course and D.E's of first order.
Topic Synopsis:	
* During Bridge Course Students were made to recollect the formulae of Trigonometry, differentiation and Integration. * Definition of Differential equation and examples * Types of Differential equations: Ordinary differential equations and partial differential eqns with examples. * Order and Degree of a differential equation with examples. * Solving the differential equations by (i) Variable Separable (ii) Homogeneous and Non-Homogeneous. * Exact Differential equation: the Necessary and Sufficient cond'n for the differential eqn of $Mdx + Ndy = 0$ to be exact is $\frac{\partial M}{\partial y} = \frac{\partial N}{\partial x}$. Solution is given by $V = \int Mdx$. $\psi(y) = N - \frac{\partial V}{\partial y}$ (or) $\int Ndy + \int (M - \frac{\partial V}{\partial y})dx = C$.	
Examples / Illustrations	From Deepthi Textbook.
Additional Inputs	-
Teaching Aids Used	Black Board and Chalks.
References Cited	-
Student Activity Planned after the teaching	Home work, given.
Any other activity	Assignments.

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Andhra Christian College, Guntur

Teaching Plan

Name of the Department / Subject	Mathematics / Abstract Algebra
Name of the Lecturer	Dr. B. Vijaya Kumar
Course / Group	B. Sc.
Paper	III
Name of the Topic	Permutations and Cyclic groups
Hours Required	14
Learning Objectives	Define the concept of permutation, inverse of a permutation, cyclic permutation, transposition, cyclic group and comprehend and analyze the properties of permutations and cyclic group.
Previous Knowledge to be reminded	Definition and examples of group, subgroups, normal subgroup and quotient group and their properties.

Topic Synopsis:

A permutation group is a mathematical concept in group theory where elements are permutations (rearrangements) of a finite set. The group operation is composition of permutations. Symmetric groups S_n are fundamental examples, comprising all permutations of n elements. Generators, cycle notation, and group actions play key roles. Permutation groups find applications in combinatorics, cryptography, and symmetry analysis. They provide a versatile framework for understanding symmetrical structures and arrangements.

Transpositions and Generators: Transpositions, which interchange two elements while leaving others fixed, often generate permutation groups. A permutation group can be generated by a set of permutations that, through composition, generate all permutations in the group.

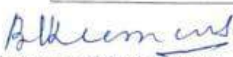
Cycles and Cycle Notation: Permutations can be expressed using cycle notation, representing the cyclic rearrangements of elements. Cycles play a crucial role in understanding and describing permutations efficiently.

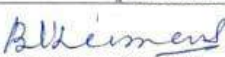
Cyclic Groups: A cyclic group is a mathematical concept in group theory where elements are generated by a single element, called a generator, through repeated application of the group operation. The order of the generator determines the size of the group. Cyclic groups play a fundamental role in abstract algebra, and their properties are extensively studied.

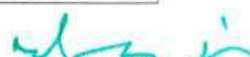
Example: Let's consider the group Z_4 , which is the cyclic group of order 4. The elements of this group are $\{0, 1, 2, 3\}$, and the group operation is addition modulo 4. We have $Z_4 = \{0, 1, 2, 3\}$. Let's take the element 1 in Z_4 . If we repeatedly apply the group operation (addition modulo 4), we get: $1, 2, 3, 0, 1, 2, 3, 0, \dots$

The group cycles through all its elements, and 1 generates the entire group. Therefore, Z_4 is a cyclic group of order 4 generated by the element 1.

Examples / Illustrations	$G = \{1, -1\}$ is a multiplicative group which is cyclic generated by -1 .
Additional Inputs	Visual aids, Problem solving
Teaching Aids Used	Black board
References Cited	A text book of Mathematics for B. A./B.Sc. by BVSS Sarma and others, S. Chand & Company, New Delhi Modern Algebra by M. L. Khanna
Student Activity Planned after the teaching	Group discussions, Seminars, Assignment
Any other activity	Facilitating a brief Q&A session after the presentation.


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Andhra Christian College, Guntur

Teaching Plan

Name of the Department / Subject	Mathematics / Abstract Algebra
Name of the Lecturer	Dr. B. Vijaya Kumar
Course / Group	B. Sc.
Paper	III
Name of the Topic	Permutations and Cyclic groups
Hours Required	14
Learning Objectives	Define the concept of permutation, inverse of a permutation, cyclic permutation, transposition, cyclic group and comprehend and analyze the properties of permutations and cyclic group.
Previous Knowledge to be reminded	Definition and examples of group, subgroups, normal subgroup and quotient group and their properties.

Topic Synopsis:

A permutation group is a mathematical concept in group theory where elements are permutations (rearrangements) of a finite set. The group operation is composition of permutations. Symmetric groups S_n are fundamental examples, comprising all permutations of n elements. Generators, cycle notation, and group actions play key roles. Permutation groups find applications in combinatorics, cryptography, and symmetry analysis. They provide a versatile framework for understanding symmetrical structures and arrangements.

Transpositions and Generators: Transpositions, which interchange two elements while leaving others fixed, often generate permutation groups. A permutation group can be generated by a set of permutations that, through composition, generate all permutations in the group.

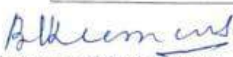
Cycles and Cycle Notation: Permutations can be expressed using cycle notation, representing the cyclic rearrangements of elements. Cycles play a crucial role in understanding and describing permutations efficiently.

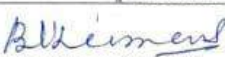
Cyclic Groups: A cyclic group is a mathematical concept in group theory where elements are generated by a single element, called a generator, through repeated application of the group operation. The order of the generator determines the size of the group. Cyclic groups play a fundamental role in abstract algebra, and their properties are extensively studied.

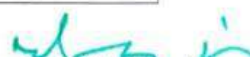
Example: Let's consider the group Z_4 , which is the cyclic group of order 4. The elements of this group are $\{0, 1, 2, 3\}$, and the group operation is addition modulo 4. We have $Z_4 = \{0, 1, 2, 3\}$. Let's take the element 1 in Z_4 . If we repeatedly apply the group operation (addition modulo 4), we get: $1, 2, 3, 0, 1, 2, 3, 0, \dots$

The group cycles through all its elements, and 1 generates the entire group. Therefore, Z_4 is a cyclic group of order 4 generated by the element 1.

Examples / Illustrations	$G = \{1, -1\}$ is a multiplicative group which is cyclic generated by -1 .
Additional Inputs	Visual aids, Problem solving
Teaching Aids Used	Black board
References Cited	A text book of Mathematics for B. A./B.Sc. by BVSS Sarma and others, S. Chand & Company, New Delhi Modern Algebra by M. L. Khanna
Student Activity Planned after the teaching	Group discussions, Seminars, Assignment
Any other activity	Facilitating a brief Q&A session after the presentation.


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Teaching Plan

Name of the Department / Subject	Mathematics / Abstract Algebra
Name of the Lecturer	Dr. B. Vijaya Kumar
Course / Group	B. Sc.
Paper	III
Name of the Topic	Homomorphism of groups
Hours Required	10
Learning Objectives	Define the concept of a group homomorphism, kernel, image, isomorphism and comprehend and analyze the properties of homomorphisms.
Previous Knowledge to be reminded	Definition and examples of group, subgroups, normal subgroup and quotient group and their properties.
Topic Synopsis: Introduction: Group homomorphisms are fundamental concepts in group theory, a branch of abstract algebra. A group homomorphism is a mapping between two groups that preserves the group structure. Understanding these mappings provides insights into the relationships and structures within groups. Definition: A group homomorphism $\phi : G \rightarrow H$ between two groups G and H is a function that preserves the group operation, meaning for all elements a, b in G , $\phi(ab) = \phi(a)\phi(b)$. Basic Properties: Homomorphisms exhibit key properties such as preserving the identity element and inverses. For any group element a in G , $\phi(eG) = eH$ and $\phi(a^{-1}) = (\phi(a))^{-1}$. Kernel and Image: The kernel of a homomorphism ϕ is the set of elements in G that map to the identity element in H . The image is the set of elements in H that have preimages in G . These concepts are vital in understanding the structure of groups through homomorphisms. Isomorphisms: An isomorphism is a bijective homomorphism, implying a one-to-one correspondence between elements of G and H . Isomorphic groups share the same structural properties, providing a powerful tool for understanding group structures. Quotient Groups: Homomorphisms are used to define quotient groups. The kernel of a homomorphism plays a crucial role in forming cosets, leading to the construction of quotient groups. Applications: Group homomorphisms find applications in various mathematical disciplines, including linear algebra, cryptography, and topology. They facilitate the study of group structures and symmetries in diverse contexts. Conclusion: The study of group homomorphisms provides a deep understanding of the relationships between groups and aids in classifying and analyzing their structures. This concept is foundational in abstract algebra, paving the way for advanced mathematical explorations and applications in diverse fields.	
Examples / Illustrations	Define a function $\phi : \mathbb{Z} \rightarrow \mathbb{R}^*$ as $\phi(n) = 2^n \forall n \in \mathbb{Z}$ is a homomorphism.
Additional Inputs	Visual aids, Problem solving
Teaching Aids Used	Black board
References Cited	A text book of Mathematics for B. A./B.Sc. by BVSS Sarma and others, S. Chand & Company, New Delhi Modern Algebra by M. L. Khanna
Student Activity Planned after the teaching	Group discussions, Seminars, Assignment
Any other activity	Facilitating a brief Q&A session after the presentation.

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Andhra Christian College, Guntur
Teaching Plan

Name of the Department / Subject	Mathematics / Abstract Algebra
Name of the Lecturer	Dr. B. Vijaya Kumar
Course / Group	B. Sc.
Paper	III
Name of the Topic	Normal subgroups
Hours Required	12
Learning Objectives	Comprehend and analyze the abstract algebraic structures known as normal subgroups, proper and improper normal subgroups, quotient groups.
Previous Knowledge to be reminded	Definition and examples of group, subgroups and their properties.
Topic Synopsis: Normal Subgroups: Normal subgroups are a specific type of subgroup within a group that possesses a key property: under the group operation, conjugation by any element of the group leaves the subgroup invariant. In simpler terms, if N is a normal subgroup of group G, then for any g in G, $gNg^{-1} = NgNg^{-1} = N$. Normal subgroups play a crucial role in defining quotient groups. A subgroup N of a group G is a normal subgroup if and only if, for every element g in G, the left and right cosets of N in G coincide. Mathematically, this can be expressed as $gN = Ng$. In other words, for every g in G, the left coset gN is the same as the right coset Ng. This condition is often denoted as N being invariant under conjugation by elements of G. This condition ensures that the left and right cosets behave consistently, allowing for the well-defined construction of quotient groups, and it is a fundamental concept in group theory. Quotient Groups: Quotient groups, also known as factor groups, are constructed by partitioning a group with respect to a normal subgroup. The elements of the quotient group correspond to the cosets of the normal subgroup, and the group operation is defined naturally on these cosets. Quotient groups provide a way to study the structure of a group modulo certain elements, often simplifying complex group structures into more manageable forms. The cosets in the quotient group inherit the group operation from the original group, and this construction is fundamental in abstract algebra and group theory.	
Examples / Illustrations	The subgroups $\{1, -1\}$ and $\{1, i, -1, -i\}$ are normal subgroups.
Additional Inputs	Visual aids, Problem solving
Teaching Aids Used	Black board
References Cited	A text book of Mathematics for B. A./B.Sc. by BVSS Sarma and others, S. Chand & Company, New Delhi Modern Algebra by M. L. Khanna
Student Activity Planned after the teaching	Group discussions, Seminars, Assignment
Any other activity	Facilitating a brief Q&A session after the presentation.

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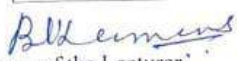
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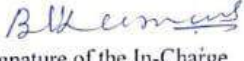
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Teaching Plan

Name of the Department / Subject	Mathematics / Abstract Algebra
Name of the Lecturer	Dr. B. Vijaya Kumar
Course / Group	B. Sc.
Paper	III
Name of the Topic	Groups
Hours Required	10
Learning Objectives	Comprehend and analyze the abstract algebraic structures known as groups, understanding their properties, symmetries, and applications in diverse mathematical contexts.
Previous Knowledge to be reminded	Familiarity with algebraic structures such as sets, operations, and properties of numbers, as group theory builds on these foundational algebraic concepts.
Topic Synopsis: Group Theory is a branch of abstract algebra that studies the algebraic structures known as groups. A group is a set equipped with an operation that satisfies four fundamental properties: closure, associativity, identity element existence, and invertibility. Group Theory explores the properties, classifications, and applications of groups, providing a powerful framework for understanding symmetry, patterns, and transformations in diverse mathematical and scientific contexts.	
Group Definition: - A group consists of a set G and an operation $*$ such that for any elements a, b in G, the operation produces another element in G (closure). - The operation is associative, and there exists an identity element (e) such that $a * e = e * a = a$ for all a in G. - Every element has an inverse, denoted as a^{-1}, such that $a * a^{-1} = a^{-1} * a = e$.	
Group Properties: - Groups can be finite or infinite, and their order is the number of elements in the group. - Subgroups are subsets of a group that form groups themselves. - Group homomorphisms and isomorphisms preserve the group structure between two groups.	
Group Classification: - Different types of groups include cyclic groups, permutation groups, and symmetric groups. - Classification of finite groups is achieved through the fundamental theorem of finite abelian groups.	
Examples / Illustrations	$(\mathbb{Z}, +)$, $(\mathbb{Q}^*, \cdot)$ are examples of a Group.
Additional Inputs	Visual aids, Problem solving
Teaching Aids Used	Black board
References Cited	A text book of Mathematics for B. A./B.Sc. by BVSS Sarma and others, S. Chand & Company, New Delhi Modern Algebra by M. L. Khanna
Student Activity Planned after the teaching	Group discussions, Seminars, Assignment
Any other activity	Facilitating a brief Q&A session after the presentation.


Signature of the Lecturer

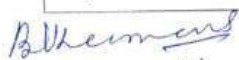

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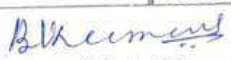

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Andhra Christian College, Guntur

Teaching Plan

Name of the Department / Subject	Mathematics / Abstract Algebra
Name of the Lecturer	Dr. B. Vijaya Kumar
Course / Group	B. Sc.
Paper	III
Name of the Topic	Subgroups
Hours Required	14
Learning Objectives	Comprehend and analyze the abstract algebraic structures known as subgroups, cosets, understanding their properties & proving Lagrange's theorem.
Previous Knowledge to be reminded	Definition of Group, examples of group and group properties.
Topic Synopsis: Subgroup: A subgroup in abstract algebra is a subset of a group that forms a group itself under the same group operation. It maintains closure, contains the identity element, and includes the inverses of its elements. Subgroups play a crucial role in understanding the internal structure of a group and are fundamental in exploring group properties and classifications. Product of Two Subgroups: The product of two subgroups H and K in a group G is the set of all possible products of elements where one element is from H and the other from K . Symbolically, $HK = \{hk h \in H, k \in K\}$. Union and Intersection of Two Subgroups: Union ($H \cup K$): The union of two subgroups H and K of a group G is a subgroup iff one is contained in the other. Intersection ($H \cap K$): The intersection of two subgroups H and K of a group G is a subgroup. Lagrange's Theorem: Lagrange's Theorem states that in a finite group, the order of any subgroup divides the order of the parent group. It provides a powerful tool for analyzing the structure of groups by establishing a relationship between the sizes of subgroups and the overall group. The theorem has applications in group theory and is fundamental for understanding the decomposition of groups into cosets and the classification of finite groups.	
Examples / Illustrations	$(\mathbb{Z}, +)$ is a subgroup of $(\mathbb{Q}, +)$, $(\mathbb{Q}, +)$ is a subgroup of $(\mathbb{R}, +)$.
Additional Inputs	Visual aids, Problem solving
Teaching Aids Used	Black board
References Cited	A text book of Mathematics for B. A./B.Sc. by BVSS Sarma and others, S. Chand & Company, New Delhi Modern Algebra by M. L. Khanna
Student Activity Planned after the teaching	Group discussions, Seminars, Assignment
Any other activity	Facilitating a brief Q&A session after the presentation.


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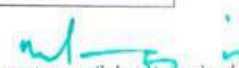
Andhra Christian College, Guntur

Teaching Plan

Name of the Department / Subject	Mathematics / Real Analysis
Name of the Lecturer	Dr. B. Vijaya Kumar
Course / Group	B. Sc.
Paper	IV
Name of the Topic	Riemann Integration
Hours Required	12
Learning Objectives	Define Riemann integral, Riemann integral function, understand the necessary and sufficient condition for R- integrability and comprehend properties of integrable functions, fundamental theorem of integral calculus and Mean value theorems.
Previous Knowledge to be reminded	Closed and open intervals, limit, continuity and differentiability of a function.
Topic Synopsis: Riemann integration is a fundamental concept in calculus that provides a rigorous method for defining and calculating the definite integral of a real-valued function over a closed and bounded interval. The key components and concepts associated with Riemann integration include: Riemann Integral: The Riemann integral is the limit of Riemann sums as the maximum width of subintervals approaches zero. If this limit exists, the function is said to be Riemann integrable over the interval. Upper and Lower Riemann Integrals: The upper Riemann sum is the sum of the products of the function values and the widths of subintervals, where the function values are chosen to be the maximum in each subinterval. The lower Riemann sum is similarly defined using the minimum function values. Conditions for Riemann Integrability: A function is Riemann integrable over an interval if and only if it is bounded on that interval and the set of points of discontinuity has zero measure (i.e., the function is continuous almost everywhere). Fundamental Theorem of Calculus: The Fundamental Theorem of Calculus establishes a connection between differentiation and integration. If $F(x)$ is an antiderivative of $f(x)$, then $\int_a^b f(x)dx = F(b) - F(a)$. Riemann integration provides a precise way to calculate the area under a curve and has broad applications in calculus, physics, engineering, and various scientific fields. It lays the foundation for more advanced concepts, such as improper integrals and Lebesgue integration.	
Examples / Illustrations	Let $f(x) = 2x$ over the interval $[0,3]$. Then the Riemann integral of $2x$ over $[0,3]$ is 9.
Additional Inputs	Visual aids, Problem solving
Teaching Aids Used	Black board
References Cited	A text book of B.Sc. Mathematics by BVSS Sarma and others, S. Chand & Company, New Delhi
Student Activity Planned after the teaching	Group discussions, Seminars, Assignment
Any other activity	Facilitating a brief Q&A session after the presentation.


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Teaching Plan

Name of the Department / Subject	Mathematics / Real Analysis
Name of the Lecturer	Dr. B. Vijaya Kumar
Course / Group	B. Sc.
Paper	IV
Name of the Topic	Infinite Series
Hours Required	12
Learning Objectives	Define an infinite series and its notation, understand the distinction between a series and a sequence, identify conditions for the convergence or divergence of infinite series, explore convergence tests, including the comparison test, ratio test and integral test.
Previous Knowledge to be reminded	Real number system and concept of sequences and their properties.
Topic Synopsis: An infinite series is the sum of an infinite sequence of terms. Key concepts include convergence and divergence, determined by various tests such as comparison and ratio tests. Geometric series and alternating series are analyzed. The limit comparison test is employed for convergence analysis. Infinite series play a pivotal role in calculus and have broad applications in mathematics, physics, and engineering. Tests to determine whether a given series is convergent or divergent: 1) p-test : The p-test is commonly used to analyze the convergence of certain infinite series, especially those involving reciprocals of powers of natural numbers. 2) Cauchy's nth root test: Cauchy's nth Root Test is a convergence test used to determine the convergence or divergence of an infinite series by examining the nth roots of its terms. The test is particularly useful for series with positive terms. 3) D'Alembert's Ratio Test: The D'Alembert's Ratio Test, also known as the Ratio Test, is a convergence test used to determine the convergence or divergence of an infinite series. It involves examining the limit of the ratio of consecutive terms. The test is particularly useful for series with positive terms. 4) Leibnitz Test (Absolute convergence): The Leibniz Test, also known as the Alternating Series Test, is a convergence test specifically designed for alternating series. An alternating series is a series where terms alternate in sign.	
Examples / Illustrations	$\sum_{n=0}^{\infty} \frac{1}{2^n}$ is a convergent geometric series with a common ratio less than 1, $\sum_{n=1}^{\infty} \frac{1}{n}$ is a harmonic series which is divergent, even though its terms approach zero.
Additional Inputs	Visual aids, Problem solving
Teaching Aids Used	Black board
References Cited	A text book of B.Sc. Mathematics by BVSS Sarma and others, S. Chand & Company, New Delhi
Student Activity Planned after the teaching	Group discussions, Seminars, Assignment
Any other activity	Facilitating a brief Q&A session after the presentation.

B. Vijaya Kumar
Signature of the Lecturer

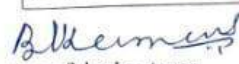
B. Vijaya Kumar
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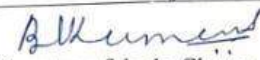
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Andhra Christian College, Guntur

Teaching Plan

Name of the Department / Subject	Mathematics / Real Analysis
Name of the Lecturer	Dr. B. Vijaya Kumar
Course / Group	B. Sc.
Paper	IV
Name of the Topic	Real numbers and Sequences
Hours Required	12
Learning Objectives	Define a sequence of real numbers and understand the notation, understand the concept of convergence and divergence of a sequence, limit of a sequence and comprehend their properties.
Previous Knowledge to be reminded	Algebraic and order properties $\mathbb{R}$, real axis and completeness property.
Topic Synopsis: A real sequence is an ordered list of real numbers denoted as $\{s_n\}$, where each term s_n corresponds to an element at the n-th position. The study of real sequences is a fundamental topic in real analysis, encompassing various concepts and properties: Definition and Notation: A function $s: \mathbb{N} \rightarrow \mathbb{R}$ is called a real sequence and is denoted as $\{s_n\}$ or $\{s_1, s_2, s_3, \dots\}$. Convergence and Divergence: - A sequence is said to converge if its terms approach a specific limit as n tends to infinity. - Divergence occurs when a sequence does not approach a finite limit. Limit of a Sequence: - The limit of a sequence $\{s_n\}$ is denoted as $\lim_{n \rightarrow \infty} s_n$. - Convergence to a limit is defined using the epsilon-delta criteria. Bounded Sequences: - A sequence is bounded if its terms do not exceed certain finite values. - Boundedness is often related to convergence. Monotonic Sequences: - A sequence is monotonic if it is either entirely non-increasing or non-decreasing. - Monotonic sequences exhibit clear convergence or divergence behavior. Cauchy Sequences: - A sequence is Cauchy if the terms become arbitrarily close as n increases. - Cauchy sequences are closely linked to convergence. Tests for Convergence: - Various tests, such as the comparison test and ratio test, help determine the convergence of sequences.	
Examples / Illustrations	$\{n\}$, $\{1/n\}$, $\{(-1)^n\}$ are examples of sequences.
Additional Inputs	Visual aids, Problem solving
Teaching Aids Used	Black board
References Cited	A text book of B.Sc. Mathematics by BVSS Sarma and others, S. Chand & Company, New Delhi
Student Activity Planned after the teaching	Group discussions, Seminars, Assignment
Any other activity	Facilitating a brief Q&A session after the presentation.


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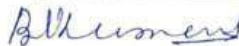

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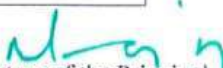
Andhra Christian College, Suntur

Teaching Plan

Name of the Department / Subject	Mathematics / Real Analysis
Name of the Lecturer	Dr. B. Vijaya Kumar
Course / Group	B. Sc.
Paper	IV
Name of the Topic	Continuity
Hours Required	12
Learning Objectives	Define limit, boundedness of a function, continuous function and uniform continuity and comprehend their properties.
Previous Knowledge to be reminded	Real number system, closed and open intervals and their properties.
Topic Synopsis: Limit: The limit of a function $f(x)$ as x approaches a specific value, denoted as $\lim_{x \rightarrow a} f(x)$, represents the value that $f(x)$ approaches as x gets arbitrarily close to but not equal to a. If the limit exists and equals a finite value, the function approaches a specific value as x gets close to a. If the limit approaches positive or negative infinity, the function grows without bound as x approaches a. Continuous functions: A function $f(x)$ is continuous at a point a if the limit of $f(x)$ as x approaches a exists and equals $f(a)$. Uniform Continuity: A function is continuous on an interval if it is continuous at every point within that interval. The continuous function has no abrupt changes or gaps in its graph. Types of Discontinuity: Removable Discontinuity: A hole in the graph that can be filled to make the function continuous. Jump Discontinuity: A sudden jump in the graph at a certain point. Infinite Discontinuity: The function approaches infinity at a certain point. Intermediate Value Theorem: If $f(x)$ is continuous on a closed interval $[a, b]$, then $f(x)$ takes every value between $f(a)$ and $f(b)$ for at least one x in $[a, b]$. Applications: Continuous functions model smooth and predictable behaviors, making them essential in various scientific, engineering, and mathematical applications. In summary, continuity is a key attribute of functions ensuring smooth and connected behavior, and it is a crucial concept for understanding calculus and mathematical modeling.	
Examples / Illustrations	$f(x) = x^2$ is continuous everywhere. $g(x) = \frac{1}{x}$ is continuous on its domain except at $x = 0$.
Additional Inputs	Visual aids, Problem solving
Teaching Aids Used	Black board
References Cited	A text book of B.Sc. Mathematics by BVSS Sarma and others, S. Chand & Company, New Delhi
Student Activity Planned after the teaching	Group discussions, Seminars, Assignment
Any other activity	Facilitating a brief Q&A session after the presentation.


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Proforma for Teaching Synopsis

Name of the Department / Subject	Economics, Development Economics
Name of the Lecturer	Dr. N. Madhavi Madhavi
Course / Group	BA, BPD, B.Y.
Paper	3rd paper
Name of the Topic	Basic features of Indian Economy
Hours Required	3 hr
Learning Objectives	to know about Indian Economy
Previous Knowledge to be reminded	India around them
Topic Synopsis:	Basic features of Indian Economy. - low per capita income (real) - high rate of growth of population. - the endless loop of poverty. - agro based economy - overpopulation - incongruities in income - Distortion in capital formation - poor infrastructural development. - low rate of per capita income. - High rate of unemployment. - obsolete technology. - Social backwardness. - slow rate of growth. - more traditions & customs. - unity and diversity. - Different climatic conditions. - Different political scenario. - India is a wageless economy. - corruption.
Examples / Illustrations	India in villages.
Additional Inputs	India around you.
Teaching Aids Used	Board & chalk, map.
References Cited	'Indian Economy' - M. D. Ranjan
Student Activity Planned after the teaching	to identify developing economies
Any other activity	prepare classification.

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Proforma for Teaching Synopsis

Name of the Department / Subject	Economics, Development Econ
Name of the Lecturer	Dr. N.M. Bindula
Course / Group	BA, II yr, IKA,
Paper	3rd paper
Name of the Topic	Capital & Labour
Hours Required	2
Learning Objectives	To know the imp of both methods
Previous Knowledge to be reminded	Meaning of capital & labour
Topic Synopsis:	Capital intensive techniques use more of capital. C.I.T. have speed & efficiency. C.I.T. have scarcity of labour. C.I.T. have high profits. C.I.T. are more in developed countries. C.I.T. are highly sophisticated. C.I.T. have more research & dev. C.I.T. have more production. C.I.T. have comparative advantage in INT. C.I.T. have more growth through CIT operate under large scale industries. C.I.T. have highly productive. C.I.T. have increasing wages. C.I.T. have low cost. C.I.T. have trade unions strong. C.I.T. have short term problems. C.I.T. deal with legal related problems. L.I.T. use more labour in time of capital. L.I.T. have less efficient. L.I.T. have scarcity of capital. L.I.T. have high prices, low profits. L.I.T. are in developing countries. L.I.T. are less qualitative. L.I.T. have less R&D. L.I.T. have less production. L.I.T. are in more populated cities. L.I.T. have less advantage in INT. L.I.T. have theories that are adopted. L.I.T. operate under cottage, handloom & small scale industries. L.I.T. have less productive. L.I.T. wages are comparatively low. L.I.T. have high cost of production. L.I.T. have weak trade unions. L.I.T. have long term problems. L.I.T. deal with more related problems.
Examples / Illustrations	India, USA - Industry, Agriculture
Additional Inputs	Urban & Rural levels
Teaching Aids Used	Board & Chalk
References Cited	Development Economics
Student Activity Planned after the teaching	to identify methods of capital & labour
Any other activity	

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Proforma for Teaching Synopsis

Name of the Department / Subject	Economics, Development Economics
Name of the Lecturer	Dr. N. M. Murudula
Course / Group	II BA, HED
Paper	3rd paper
Name of the Topic	Concept of population dividend
Hours Required	two
Learning Objectives	to understand the concept of PD
Previous Knowledge to be reminded	idea of population dividend
Topic Synopsis:	Demographic dividend is economic growth brought on by a change in the structure of a country's population, usually a result of a fall in fertility & mortality rates. The demographic dividend comes there's an increase in the working population's productivity, which boosts per capita income. Demographic dividend is a situation when a country has the potential for tremendous economic growth due to the change in the population. Demographic dividend is the economic growth attributed that can result from shifts in the population's age structure mainly when the share of the working age population (15 to 64) is larger than the non-working age share of the population (14 and younger & 64 and older). Demographic dividend occurs when the proportion of working people in the total population is high because this implies that more people have the potential to be productive and contribute to the growth of the economy.
Examples / Illustrations	Indian population.
Additional Inputs	working population, dependent
Teaching Aids Used	Board & chalk, maps.
References Cited	Economic Development - M. L. Hingon
Student Activity Planned after the teaching	to identify highly populated states
Any other activity	

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Proforma for Teaching Synopsis

Name of the Department / Subject	Economics Development Economics
Name of the Lecturer	Dr. N. Krishna Murthy
Course / Group	BA, HEP,
Paper	3rd paper
Name of the Topic	Important Demographic features
Hours Required	One (1)
Learning Objectives	to learn about population in India
Previous Knowledge to be reminded	Idea about population in India
Topic Synopsis: Variables within a national population, such as age, gender, income level, social status, ethnic origin and education level. Demographic characteristics are commonly used as a basis for market segmentation. A population is defined as a group of individuals of the same species living and interacting within the given area. Members of a population often rely on the same resources, are subject to similar environmental constraints, and depend on the availability of other members to persist over time. Demographics can include any statistical factors that influence population growth or declines. But several parameters are particularly important. Populations. The demographic profile of India is a dynamic matter. Despite a myriad of factors, this comprehensive exploration delves into the intricate demographic structure. Historical population,	
Examples / Illustrations	Populated Countries
Additional Inputs	
Teaching Aids Used	Chalk & Board, Map of populated countries
References Cited	Development Economics, M.L. Thirunavukarasu
Student Activity Planned after the teaching	to locate populated countries
Any other activity	Idea about population

Signature of the Lecturer

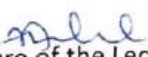
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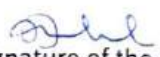
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Proforma for Teaching Synopsis

Name of the Department / Subject	Economics, Development Economics
Name of the Lecturer	Dr. N. Mitha Moudula
Course / Group	B.A., H.P.
Paper	3rd paper
Name of the Topic	Population policy
Hours Required	2 hours
Learning Objectives	to understand population policy
Previous Knowledge to be reminded	idea on population policy
Topic Synopsis: A population policy is a set of measures taken by the state to modify the way its population is changing, either by promoting large families or through immigration. India has the largest population in the world. With a current population of about 1.3 billion population growth is still continues to be among governments agenda. National population policy 2000:- The National Population Policy (NPP) 2000 is the central government's second population policy. The NPP states the immediate objective addressing the unmet need for contraception, healthcare infrastructure and health personnel and providing integrated service delivery for basic reproductive and child healthcare. The medium-term objective of the NPP 2000 was to reduce the Total Fertility Rate (TFR) to replacement levels by 2010. The TFR was to be 2.1 children per woman.	
Examples / Illustrations	Examples of other population policies
Additional Inputs	India in 2000, 2010
Teaching Aids Used	Board & chalk, Map.
References Cited	Development Economics, Dr. Thirun
Student Activity Planned after the teaching	To assess Indian population policy
Any other activity	


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(Day, Evening, & P.G.)

LESSON PLAN

Name of the Lecturer : Ch. Anita Name of the Department : English

1st B Com 1st SEM GENERAL ENGLISH
Name of the Topic : Communication Skills - Listening

Hours required : 12

Learning objectives : To learn the importance of listening the basics of listening and to learn the principles of effective listening and learning the four factors of Communication - listening, speaking, reading and writing.

Previous knowledge to be reminded

Topic Synopsis : Listening is the ability to accurately receive and interpret messages in effective the communication process. It is key to all communication process. Passive listening, Marginal listening, projective listening, Sensitive listening, Active listening. The 3 stages in the process of listening are
1) Leveling / Sensing / Receiving
2) Sharpening / understanding

Assimilation/understanding
The factors which assist listening
knowledge of the language.

Motivation and interest

The context / the subject / the accent
principles of listening:

- a) Stop talking b) prepare yourself
to listen c) put the speaker at ease
- d) Remove distractions e) Empathy
- f) Be patient g) listen to the tone.

Barriers to effective listening

- a) Trying to listen to more than one
conversation at a time b) Not interested
- Feeling tired, pre-occupation

Examples / Illustrations :

Additional Inputs : Charts

Teaching Aids Used : Computer system, CD's etc

References cited :

Student Activity planned after teaching : Listening exercises
and answering the questions over system

Activity planned outside the Class Room, if any :

Any other activity :

Andhra Christian College, Guntur.

(Day, Evening, & P.G.)

LESSON PLAN

Name of the Lecturer : Ch. Anita Name of the Department : English

Name of the Topic : Phonetics

Hours required : 12

Learning objectives : To learn the sound system of English, the symbols of Consonant sounds and vowel sounds, word accent To use the language perfectly with correct pronunciation and Intonation.

Previous knowledge to be reminded

To refer to the past knowledge of the and the importance of Communication

Topic Synopsis :

Andhra Christian College, Guntur.

(Day, Evening, & P.G.)

LESSON PLAN

Name of the Lecturer : Ch. Anita Name of the Department : English

Name of the Topic : Phonetics

Hours required : 12

Learning objectives : To learn the sound system of English, the symbols of Consonant sounds and vowel sounds, word accent To use the language perfectly with correct pronunciation and Intonation.

Previous knowledge to be reminded

To refer to the past knowledge of the and the importance of Communication

Topic Synopsis :

Andhra Christian College, Guntur.

(Day, Evening, & P.G.)

LESSON PLAN

Name of the Lecturer : Ch. Anita Name of the Department : English

Name of the Topic : General Grammar

Hours required : 24

Learning objectives : Use grammar effectively in writing and speaking, Demonstrate the use of good vocabulary, understand and demonstrate writing skills, Acquire ability to use soft skills.
Confidently use the tools of communication

Previous knowledge to be reminded

previous knowledge of grammar

Topic Synopsis :

Modals: do (To make simple Tenses, and questions and be (To make Continuous Tenses, and the passive voice have (To make perfect Tenses) be able to - ability would - polite request, preference, repeated action in the past used to - Repeated action in the past shall - polite

Tense and Time:

A present tense does not always refer to present time

A past tense does not always refer to past time

A past tense does not always refer to present time

A past tense does not always refer to past time.

Articles : use of a, an, the

a, an - indefinite articles

the - definite article.

Prepositions

It is a word used before a noun or pronoun. It shows the relation by noun but never by a verb of, in, to, till, at, by, for, from, old, out, with etc.

Question Tags

A Confirmation

You are coming. Aren't you?

Examples / Illustrations :

Give me the red book
Give me a red book
Give me an orange.

Additional Inputs :

Charts

Teaching Aids Used :

Board, Chalk

References cited :

Student Activity planned after teaching :

Practising the grammar
exercises

Activity planned outside the Class Room, if any :

Any other activity :

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Proforma for Teaching Synopsis

Name of the Department / Subject	English / English
Name of the Lecturer	N. MOONIKA
Course / Group	II BSC, 3 sem (1/7)
Paper	II
Name of the Topic	Trust with Destiny
Hours Required	4
Learning Objectives	freedom, prosperity, disaster
Previous Knowledge to be reminded	in this one world
Topic Synopsis:	Nehru feels that all Indians should work hard for the development of their dear nation. Doing Service to India means doing Service to million of poor people who suffer all over the country. Those dreams are not only for India but for the Entire world. India has to grow into a mature and wise nation and be a model to other nations. A sense of pride, unity and optimism grips the readers.
Examples / Illustrations	—
Additional Inputs	—
Teaching Aids Used	material
References Cited	text Book
Student Activity Planned after the teaching	Step text - writing more paragraphs
Any other activity	writing practice

N. Moonika
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Proforma for Teaching Synopsis

Name of the Department / Subject	English/ English
Name of the Lecturer	N. MOONIKA
Course / Group	II BSC, 3 sem (1/7)
Paper	II
Name of the Topic	Descriptions
Hours Required	2
Learning Objectives	describe objects, talk
Previous Knowledge to be reminded	about their size, height, width
Topic Synopsis:	In descriptive writing, you describe a person, place, object, experience, emotion or situation in such a way that a picture is formed in the reader's mind. This is done by using Imaginative language, interesting comparisons, and images that appeal to the senses. We have to describe objects we talk about their size, height, width, weight, colour etc.,
Examples / Illustrations	—
Additional Inputs	—
Teaching Aids Used	material
References Cited	text Book
Student Activity Planned after the teaching	skip text &
Any other activity	writing paragraph

N. Moonika
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Proforma for Teaching Synopsis

Name of the Department / Subject	English / English
Name of the Lecturer	N. MOONIKA
Course / Group	II BSC, 3 Sem (1,1)
Paper	1
Name of the Topic	JRD TATA'S Interview with N. N. N. N.
Hours Required	3
Learning Objectives	India's biggest conglomerate
Previous Knowledge to be reminded	Company. regarded as the legend
Topic Synopsis:	Tata in regard to his development as businessman and other points, like comparing past and present situations in business, growing business of Dhirubhai Ambani and so on. In those days Congress needed funds and every one gave openly. They both contributed. He opined that they knew the ethical character people group of community differ from other
Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	Material
References Cited	Text Book / News
Student Activity Planned after the teaching	Slip text, writing more paragraphs
Any other activity	writing practice

N. Moonika
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Andhra Christian College, Guntur
Proforma for Teaching Synopsis

Name of the Department / Subject	English / English
Name of the Lecturer	N. MOONIKA
Course / Group	II B.Sc., 3 Sem (1,1)
Paper	1
Name of the Topic	JRD TATA'S Interview with CNN
Hours Required	3
Learning Objectives	India's biggest conglomerate
Previous Knowledge to be reminded	Company. regarded as the legend
Topic Synopsis:	

Tata in regard to his development as businessman and other points, like comparing past and present situations in business, growing business of Dhirubhai Ambani and so on.

In those days congress needed funds and every one gave openly. They both contributed. He opined that they knew the ethical character people group of community differ from other

Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	Material
References Cited	Text Book / News
Student Activity Planned after the teaching	Slip text, writing more paragraphs
Any other activity	writing practice

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Proforma for Teaching Synopsis

Name of the Department / Subject	English / English
Name of the Lecturer	N. MOONIKA.
Course / Group	II BSC, 3 sem (1,7)
Paper	II
Name of the Topic	Trust with Destiny
Hours Required	4
Learning Objectives	freedom, prosperity, disaster
Previous Knowledge to be reminded	in this one world
Topic Synopsis: Nehru feels that all indians should work hard for the development of their dear nation. Doing Service to India means doing Service to million of poor people who suffer all over the country. Those dreams are not only for India but for the Entire world. India has to grow into a mature and wise nation and be a model to other nations. A sense of pride, unity and optimism grips the readers.	
Examples / Illustrations	—
Additional Inputs	—
Teaching Aids Used	material
References Cited	text Book.
Student Activity Planned after the teaching	Slip text, writing more paragraphs
Any other activity	writing practice

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Proforma for Teaching Synopsis

Name of the Department / Subject	English/English
Name of the Lecturer	N. MOONIKA
Course / Group	II BSC, 3 sem (1/7)
Paper	II
Name of the Topic	Role Play.
Hours Required	3
Learning Objectives	Thinking ability, develop
Previous Knowledge to be reminded	Sympathetic understanding
Topic Synopsis:	
Role play provide students with the opportunity to take part in activities which mirror career-related scenarios. Role playing exercises encourage students to think more critically about complex and controversial subjects and to see situations from a different perspective. When properly employed, role plays can motivate students in a fun and engaging way.	
Examples / Illustrations	-
Additional Inputs	-
Teaching Aids Used	Material
References Cited	text Book
Student Activity Planned after the teaching	slip tent
Any other activity	writing practice

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Proforma for Teaching Synopsis

Name of the Department / Subject	English/ English
Name of the Lecturer	N. MOONIKA
Course / Group	II BSC, 3 sem (17)
Paper	II
Name of the Topic	Descriptions
Hours Required	2
Learning Objectives	describe objects, talk
Previous Knowledge to be reminded	about their size, height, width
Topic Synopsis:	
In descriptive writing, you describe a person, place, object, experience, emotion or situation in such a way that a picture is formed in the reader's mind. This is done by using imaginative language, interesting comparisons, and images that appeal to the senses. We have to describe objects we talk about their size, height, width, weight, colour etc.,	
Examples / Illustrations	=
Additional Inputs	
Teaching Aids Used	material
References Cited	text Book
Student Activity Planned after the teaching	skip text &
Any other activity	writing practice

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Proforma for Teaching Synopsis

Name of the Department / Subject	English / English
Name of the Lecturer	N. MOONIKA
Course / Group	II BSc, 3 Sem (1,7)
Paper	13
Name of the Topic	Introductions
Hours Required	1
Learning Objectives	You must know what you
Previous Knowledge to be reminded	should say about yourself
Topic Synopsis:	Introductions are made by us. When we introduce other people to some strangers, when we meet strangers, we introduce ourselves. When others take us some where, they introduced us to strangers. So introductions are necessary either in informal or personal life and formal or social life. If you're approaching someone you are familiar with, you could make your introduction a bit friendlier.
Examples / Illustrations	-
Additional Inputs	-
Teaching Aids Used	material
References Cited	text Book
Student Activity Planned after the teaching	slip text
Any other activity	writing practice

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Proforma for Teaching Synopsis

Name of the Department / Subject	English / English
Name of the Lecturer	N. MOONIKA
Course / Group	II BSC, 3 Sem (1,1)
Paper	II
Name of the Topic	Greetings
Hours Required	2
Learning Objectives	describe places, things,
Previous Knowledge to be reminded	Experiences / ask for information
Topic Synopsis:	

There are many ways in which you can greet someone using the English language. Depending on whether the situation is formal or informal will depend on what sort of greeting you use. There are so many to choose from that you can truly make your greetings diverse and interesting. It is very important to be able to select an appropriate greeting for every situation.

Examples / Illustrations	=
Additional Inputs	
Teaching Aids Used	material
References Cited	text book
Student Activity Planned after the teaching	slip tests
Any other activity	writing practice

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Proforma for Teaching Synopsis

Name of the Department / Subject	English / English
Name of the Lecturer	N. MOONIKA
Course / Group	II BSC, 3 Sem (1,1)
Paper	II
Name of the Topic	Greetings
Hours Required	2
Learning Objectives	describe places, things,
Previous Knowledge to be reminded	Experiences / ask for information
Topic Synopsis:	

There are many ways in which you can greet someone using the English language. Depending on whether the situation is formal or informal will depend on what sort of greeting you use. There are so many to choose from that you can truly make your greetings diverse and interesting. It is very important to be able to select an appropriate greeting for every situation.

Examples / Illustrations	=
Additional Inputs	
Teaching Aids Used	material
References Cited	text book
Student Activity Planned after the teaching	slip test
Any other activity	writing practice

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Proforma for Teaching Synopsis

Name of the Department / Subject	English / English
Name of the Lecturer	N. MOONIKA
Course / Group	II BSC, 3 Sem (1,1)
Paper	II
Name of the Topic	Greetings
Hours Required	2
Learning Objectives	describe places, things,
Previous Knowledge to be reminded	Experiences / ask for information
Topic Synopsis:	

There are many ways in which you can greet someone using the English language. Depending on whether the situation is formal or informal will depend on what sort of greeting you use. There are so many to choose from that you can truly make your greetings diverse and interesting. It is very important to be able to select an appropriate greeting for every situation.

Examples / Illustrations	=
Additional Inputs	
Teaching Aids Used	material
References Cited	text book
Student Activity Planned after the teaching	slip test
Any other activity	writing practice

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Proforma for Teaching Synopsis

Name of the Department / Subject	English / English
Name of the Lecturer	N. MOONUKA
Course / Group	B.A (C.D)
Paper	I
Name of the Topic	cosomandel fishes
Hours Required	3
Learning Objectives	depicts the relationship
Previous Knowledge to be reminded	of fishermen with nature.
Topic Synopsis:	
"The Nightingale of India", Sarojini Naidu (1879-1949) was a gifted Indo-Anglian poetess and freedom fighter. In the poem "The Cosomandel fishes" she describes the beauty of nature and the folk culture of the cosomandel coast of India. It depicts the relationship of fishermen with nature. Nature stands as a symbol of beauty that expresses the optimistic view of life. The coconut tree's shade is sweet. The smell of the mango grove is sweet. The sands at the full moon day is sweet. The voice of the people is sweet. The kiss of the spray means the water comes out of the waves and sprinkles are sweeter. The dance of the wild foam's sound (song) is also sweeter and the cool breeze on the sea is considered to be the best and the sweetest.	
Examples / Illustrations	=
Additional Inputs	=
Teaching Aids Used	material
References Cited	text book
Student Activity Planned after the teaching	slip test
Any other activity	writing practice

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Proforma for Teaching Synopsis

Name of the Department / Subject	English / English
Name of the Lecturer	N. MOONIKA
Course / Group	I B A (C, D)
Paper	I
Name of the Topic	Upagupta
Hours Required	3
Learning Objectives	An Ascetic was to render
Previous Knowledge to be reminded	Service to humanity

Topic Synopsis:

"vishwakavi" Rabindranath Tagore (1861-1941) was a poet, dramatist, a short story writer, an educationist and novelist. He was the first Indian who won the Nobel prize for his book "Gitanjali" in 1913. In the poem "UPAGUPTA" Tagore talk about an incident in an ascetic upagupta's life.

He was upagupta. He said that "it was the right time for him to visit her because the duty of an ascetic was to render service to humanity."

Examples / Illustrations	—
Additional Inputs	—
Teaching Aids Used	Material
References Cited	text book
Student Activity Planned after the teaching	Slip text,
Any other activity	writing practice

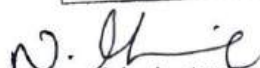
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Name of the Department / Subject	English / English.
Name of the Lecturer	N. MOONIKA
Course / Group	I BA (G.D) 3 sem,
Paper	3
Name of the Topic	SWOC
Hours Required	2
Learning Objectives	Examine Strengths,
Previous Knowledge to be reminded	Weakness, and Opportunities
Topic Synopsis: Swoc analysis is a strategic planning method used to research external and internal factors which affect company success and growth. Swoc analysis is relevant to SWOT Analysis. SWOT Examines Strengths, Weaknesses, and Opportunities. But it focuses on threats rather than challenges. The two are similar but they do have their differences, which is why firms may choose to use Swoc or SWOT.	
Examples / Illustrations	=
Additional Inputs	=
Teaching Aids Used	material
References Cited	text book
Student Activity Planned after the teaching	slip paper
Any other activity	writing practice


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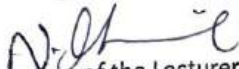
Name of the Department / Subject	English/English
Name of the Lecturer	N. MOONIKA
Course / Group	IBA (C,D) 3.Sem
Paper	I
Name of the Topic	MODALS
Hours Required	2
Learning Objectives	make importance, focused
Previous Knowledge to be reminded	on article,

Topic Synopsis:

modals of ability are the most common and the most important to master firstly, modals are verbs usually and the ones that I am going to be focused on in this article are can, could, be able to, may, might.

modal verbs often have more than one meaning and can be significant in a variety of ways.

Examples / Illustrations	-
Additional Inputs	-
Teaching Aids Used	material
References Cited	text book
Student Activity Planned after the teaching	slip text
Any other activity	writing practice


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Proforma for Teaching Synopsis

Name of the Department / Subject	English / English
Name of the Lecturer	N. MOUNIKA
Course / Group	I B A (C/D) 3 Sem
Paper	3
Name of the Topic	Effective listening
Hours Required	2
Learning Objectives	listening, decoding, interpreting
Previous Knowledge to be reminded	interpreting
Topic Synopsis: Listening means attentiveness and interest perceptible in the posture as well as expressions. listening implies decoding interpreting the messages correctly in communication process. 1) Discover your interests field. 2) Grasp and understand the matter/content. 3) Remain calm. Do not loose your temper. 4) Be open to accept new ideas and information. Effective listening gives you an advantages and makes you more impressive when you speak.	
Examples / Illustrations	—
Additional Inputs	—
Teaching Aids Used	material
References Cited	text book
Student Activity Planned after the teaching	slip test
Any other activity	writing practice

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Proforma for Teaching Synopsis

Name of the Department / Subject	English / English
Name of the Lecturer	N. MOONIKA
Course / Group	II BCOM (F) 3 sem
Paper	I
Name of the Topic	Presentation Skills.
Hours Required	2
Learning Objectives	presented papers in
Previous Knowledge to be reminded	Seminars
Topic Synopsis:	
Presentation skills include thinking skills, communication skills and body language, we use them when we present papers in seminars, in training workshops. In viva voce or during presentation of Research project reports. In conferences student meets, college, functions, large meetings and even in small family gatherings.	
Examples / Illustrations	—
Additional Inputs	—
Teaching Aids Used	Material
References Cited	text book
Student Activity Planned after the teaching	slip text
Any other activity	writing practice

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Proforma for Teaching Synopsis

Name of the Department / Subject	English / English
Name of the Lecturer	N. MOONIKA
Course / Group	II Bcom (F) Section 3 Sem
Paper	I
Name of the Topic	Word Stress.
Hours Required	2
Learning Objectives	Stressed Syllables, How to
Previous Knowledge to be reminded	pronounce the syllables
Topic Synopsis:	

The word ability is pronounced as a-bility. The (1) mark on the second syllable "b" shows that the stress must be on the syllable 'bil'. As English is an accented language, it is important to know on which syllable we have to give the stress. When we know the stressed syllable, we have to pronounce that syllable strongly so that it is uttered differently from the other syllables.

Examples / Illustrations	—
Additional Inputs	—
Teaching Aids Used	material
References Cited	textbook / Internet
Student Activity Planned after the teaching	slip text
Any other activity	writing practice

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Proforma for Teaching Synopsis

Name of the Department / Subject	English / English										
Name of the Lecturer	N. MOONIKA										
Course / Group	II Bcom (F) section 3sem										
Paper	3										
Name of the Topic	punctuation										
Hours Required	2										
Learning Objectives	capital letters, colon, semicolon etc...										
Previous Knowledge to be reminded											
Topic Synopsis:	punctuation includes commas, full stops, question marks, Quotation marks, hyphens, dashes, capital letters, colon, semicolon, exclamation mark, apostrophe and parenthesis. if you do not use them in your writing the reading text becomes totally unintelligible <table border="0"> <tr> <td>1) Question mark (?)</td> <td>(6) Exclamation (!)</td> </tr> <tr> <td>2) Full stop (.)</td> <td>(7) Semicolon (;)</td> </tr> <tr> <td>3) Comma (,)</td> <td>(8) parenthesis [()]</td> </tr> <tr> <td>4) Quotation marks (" ")</td> <td>(9) Apostrophe (')</td> </tr> <tr> <td>5) colon (:))</td> <td>(10) Hyphen (-)</td> </tr> </table>	1) Question mark (?)	(6) Exclamation (!)	2) Full stop (.)	(7) Semicolon (;)	3) Comma (,)	(8) parenthesis [()]	4) Quotation marks (" ")	(9) Apostrophe (')	5) colon (:))	(10) Hyphen (-)
1) Question mark (?)	(6) Exclamation (!)										
2) Full stop (.)	(7) Semicolon (;)										
3) Comma (,)	(8) parenthesis [()]										
4) Quotation marks (" ")	(9) Apostrophe (')										
5) colon (:))	(10) Hyphen (-)										
Examples / Illustrations	—										
Additional Inputs	—										
Teaching Aids Used	material										
References Cited	text book / internet										
Student Activity Planned after the teaching	slip test										
Any other activity	writing practice										

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Proforma for Teaching Synopsis

Name of the Department / Subject	English / English
Name of the Lecturer	N MOONIKA
Course / Group	IT Bcom (F)
Paper	I
Name of the Topic	Syllable
Hours Required	2
Learning Objectives	vowel sounds, consonant
Previous Knowledge to be reminded	sound, vowels

Topic Synopsis:

It is very difficult to define a 'Syllable'. It is the part of a word which can be uttered at a stretch. It is a group of sounds with a vowel sound and with or without consonant sound before or after the vowel sound. It is also not easy to identify the syllable in a word.

A word may contain one, two, three, four, five and six syllables.

Examples / Illustrations	→
Additional Inputs	✓
Teaching Aids Used	material
References Cited	textbook / internet
Student Activity Planned after the teaching	slip test
Any other activity	writing practice

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Proforma for Teaching Synopsis

Name of the Department / Subject	English / English
Name of the Lecturer	N. MOONIKA
Course / Group	II B.com (F) section
Paper	B
Name of the Topic	Group Discussion
Hours Required	3
Learning Objectives	Skills, traits, abilities
Previous Knowledge to be reminded	participate in the discussion
Topic Synopsis:	A group discussion is a discussion conducted in a group of people. Companies or organisations which want to recruit employees conduct the discussions to assess the skills, traits and abilities of those who participate in the discussion. A topic will be given to the group and it is asked to discuss the topic for a few minutes.
Examples / Illustrations	-
Additional Inputs	-
Teaching Aids Used	material
References Cited	text book / Internet
Student Activity Planned after the teaching	flipchart
Any other activity	writing practice

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Proforma for Teaching Synopsis

Name of the Department / Subject	English / English
Name of the Lecturer	N. MOUNIKA
Course / Group	II Bcom / F Section
Paper	II
Name of the Topic	Communication skills
Hours Required	2
Learning Objectives	Verbal and Non verbal
Previous Knowledge to be reminded	Communication
Topic Synopsis:	Communication is nothing but interaction with one another. It is necessary to exchange our views, opinions, ideas, feelings etc., There are different methods of communication i.e., Verbal communication and Non-verbal communication. The Speaker must be able to communicate his message clearly so that it will be received properly. The Speaker must be selective in using his language.
Examples / Illustrations	—
Additional Inputs	—
Teaching Aids Used	Material
References Cited	Text book / Internet
Student Activity Planned after the teaching	• Skit / Drama
Any other activity	Writing practice

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Proforma for Teaching Synopsis

Name of the Department / Subject	ENGLISH / ENGLISH
Name of the Lecturer	Ch. Arile
Course / Group	II B A Special English
Paper	III
Name of the Topic	Restoration Period
Hours Required	6
Learning Objectives	To understand Chronology, events and facts through the history
Previous Knowledge to be reminded	Previous age
Topic Synopsis:	The period from 1660 to 1700 is named as the Restoration Period. In 1660 King Charles II was brought to the throne. The people of England was was suffering from tension due to strict rule of Oliver Cromwell. Thus the nation welcomed the Restoration of Charles II. This Restoration brought about a revolutionary change in social life and literature. During this period spiritual zeal was the wind. The rise of two political parties The Whigs and The Tories gave a fresh impetus to men of literary ability. A new literary movement (neo-classicism) was started. The authors imitated the rules and ignored the importance of subject matter. Could not delve deep into human emotions; can be noticed in the age of Dryden and Pope. Pascal, Racine, Boileau and other French writers were imitated. French influence was responsible for the growth of opera. writers reacted against the Elizabethan age. Dryden, Bunyan, Locke, Temple etc. were eminent writers of the age.
Examples / Illustrations	Locke's Treatises of government - first critical attacks on the church...
Additional Inputs	
Teaching Aids Used	Material
References Cited	
Student Activity Planned after the teaching	Made them read Restoration Dramas
Any other activity	Student seminar

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Proforma for Teaching Synopsis

Name of the Department / Subject	ENGLISH / ENGLISH
Name of the Lecturer	Ch. Anita
Course / Group	II BA Sp. English
Paper	III
Name of the Topic	Augustan Age
Hours Required	6
Learning Objectives	To make them read one of the socio-political milestones of the age.
Previous Knowledge to be reminded	literary tendencies of the previous ages
Topic Synopsis:	The social change in the 18th C called the Augustan age includes emergence of coffee houses and literary activities, interest of people in reading and publication houses and consequently the rise of middle class. It is followed by the discussion of the prime features of literary tendencies of Augustan age. On the literary domain this period is called the age of prose and reason, the age of satire and neo-classicism. It also covers the transitional poetry that breaks its umbilical cord with neo-classicism and paves ways to the forthcoming age. The Augustan prose poetry, drama and the new emergence of new genre called novel are discussed in detail.
Examples / Illustrations	The Rape of the Lock by Alexander Pope but known work of the age
Additional Inputs	
Teaching Aids Used	Material, Internet
References Cited	Other works of Augustan age, Joseph Andrews, Moll Flanders
Student Activity Planned after the teaching	Made them read Rape of the Lock, Carfax
Any other activity	


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Proforma for Teaching Synopsis

Name of the Department / Subject	ENGLISH / ENGLISH
Name of the Lecturer	Ch. Anita
Course / Group	II B A Sp. ENGLISH
Paper	III
Name of the Topic	Robinson Crusoe
Hours Required	10
Learning Objectives	able to analyze structure of text significance of first person narrative to develop analytical skills
Previous Knowledge to be reminded	
Topic Synopsis: Robinson Crusoe by Daniel Defoe begins with Crusoe describing his early life in York, England. Crusoe as a young and impulsive wanderer, defied his parents and went to sea. He was involved in a series of violent storms at sea and was warned by the Captain that he should not be seafaring man. Ashamed to go home, Crusoe boarded another ship and returned from a successful trip to Africa. Central theme of Crusoe is 'survival'. Not only does Crusoe have to physically survive on the island by securing food, water and shelter but he also has to develop self-confidence to survive, So he doesn't give up hope of a rescue. Robinson Crusoe published in 1719 is claimed to be secondary to the Bible in its number of translations.	
Examples / Illustrations	Real life adventures in Discovery Channel
Additional Inputs	
Teaching Aids Used	Material
References Cited	
Student Activity Planned after the teaching	Story telling
Any other activity	


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Proforma for Teaching Synopsis

Name of the Department / Subject	English / English II
Name of the Lecturer	Ch. Shalini
Course / Group	B.A. 3rd Sem (English)
Paper	III
Name of the Topic	The Way of the World
Hours Required	15
Learning Objectives	Students will explore the Restoration era as it pertains to theatre production of the time.
Previous Knowledge to be reminded	
Topic Synopsis:	The Way of the World is a play written by the English playwright William Congreve. It premiered in early 1700 in the theatre in Lincoln's Inn Fields in London. Its about two lovers, Mirabell and Millamant, finding ways to marry each other and not losing the individual. It is full of characters who are connected to each other in some way or the other. However, it also exposes some of the dark secrets of the characters. The play is considered Congreve's masterpiece. It includes the assumptions that governed the society of his time, especially those concerning love and marriage. The plot concerns the efforts of the lovers Mirabell and Millamant to obtain the permission of Mirabell's aunt for their marriage. Most notable characters are Mirabell, Fainall, Mirabell's Lady Wishfort.
Examples / Illustrations	Difference between the characters of Mirabell and Fainall.
Additional Inputs	Comedy of manners by other writers
Teaching Aids Used	Material from different sources
References Cited	References from real life situations we come across.
Student Activity Planned after the teaching	Make them study about other works of Congreve
Any other activity	


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Proforma for Teaching Synopsis

Name of the Department / Subject	ENGLISH / ENGLISH
Name of the Lecturer	Ch. Anita
Course / Group	MBA Special English (EHP)
Paper	VI
Name of the Topic	A Grain of Wheat
Hours Required	10
Learning Objectives	To recognize the power of different types of language.
Previous Knowledge to be reminded	Colonialism
Topic Synopsis:	Ngugi wa Thiong'o is an award winning novelist, playwright and essayist from Kenya. The events of the novel take place in the days of 1963 before and on the day of when Kenya's liberation from British Colonial rule. The novel also features flashbacks of the past, about a group of villagers whose lives have been transformed by the 1952-1960 Emergency. At the centre of it all is the reticent Mugo, the village's chosen hero and a man haunted by a terrible secret. The narrative focuses on the individual, in the time given to Mugo, Mumbi, Gikonyo, Karanja, Kihika, and even minor characters like General R and Koria. Almost every character feels guilty about the war in this novel and these sources of guilt tend to derive from the betrayal of another character or of the Kenyan people. Many of the characters in this novel do reprehensible things. Nature has a thematic as well as literal importance in the novel
Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	Text, material from Internet
References Cited	
Student Activity Planned after the teaching	Student Seminar
Any other activity	


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Proforma for Teaching Synopsis

Name of the Department / Subject	ENGLISH / ENGLISH
Name of the Lecturer	Ch. Anita
Course / Group	MEBA Sp. English
Paper	DE
Name of the Topic	Crime and Punishment
Hours Required	8
Learning Objectives	developing students critical appreciation of the nature of law, develop argumentation normative issues with ground law
Previous Knowledge to be reminded	
Topic Synopsis:	Crime and Punishment - is a novel by the Russian author Fyodor Dostoevsky. It was first published in the literary journal The Russian Messenger in 12 monthly installments. Crime and Punishment follows the mental anguish and moral dilemmas of Rodion Raskolnikov, an impoverished ex-student in Saint Petersburg who plans to kill an unscrupulous pawnbroker, an old woman who stores money and valuable objects in her flat. This novel is a psychological analysis of the poor former student Raskolnikov, whose theory that he is an extraordinary person able to take on the spiritual responsibility of using evil means to achieve humanitarian ends leads him to murder. The act produces nightmarish guilt in Raskolnikov. Sonia, Dr. Lushin, Dmitri, Avdotya, Pulkheria are other characters.
Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	Text
References Cited	
Student Activity Planned after the teaching	Story telling
Any other activity	

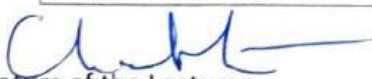
Signature of the Lecturer

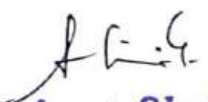
Signature of the In-Charge
Anna Shalini Garapati,
 Head, Dept. of English,
 Andhra Christian College

Signature of the Principal

Andhra Christian College, Guntur
Proforma for Teaching Synopsis

Name of the Department / Subject	ENGLISH / ENGLISH
Name of the Lecturer	Ch. Anita
Course / Group	II BA Sp. English
Paper	VI
Name of the Topic	My Son's Story
Hours Required	2
Learning Objectives	to develop understanding, respect and appreciation for other cultures and can promote positive attitude to people from different
Previous Knowledge to be reminded	
Topic Synopsis: My son's story is the ninth novel by South African novelist Nadine Gordimer. It was written towards the end of the state of emergency and first published in 1990. Gordimer was awarded the Nobel prize in literature. The novel tells the story of a father Sam and his son, Will, living in Johannesburg during the final state of emergency. Sam, a coloured man who used to be a school teacher has become involved in African national Congress politics and has been imprisoned as a result of his activism. Nadine Gordimer deals with the pressing issue of apartheid in South Africa that was tearing the country apart. It is a tale of a family torn apart by illicit love, political struggle and apartheid. The 5 main characters are Sam, Aida, Baby, Will and Hannah. Written in the first person, tells the story through the eyes of Sam's son Will, Sam's adult	
Exa mples / Illustrations	
Additional Inputs	
Teaching Aids Used	
References Cited	Characters from A grain of wheat
Student Activity Planned after the teaching	Student Seminar
Any other activity	


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Signature of the Head
Anita Shalini Garapati,
Head, Dept. of English,
Andhra Christian Coll. ge.


Signature of the Principal

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Proforma for Teaching Synopsis

Name of the Department / Subject	ENGLISH / ENGLISH
Name of the Lecturer	Ch. Anita
Course / Group	TE B Com Gen-Eng
Paper	III
Name of the Topic	Shyness, My Shield
Hours Required	4
Learning Objectives	enable the students to identify to make a negative trait into a positive aspect.
Previous Knowledge to be reminded	
Topic Synopsis: M.K. Gandhi is a prominent leader of the Indian freedom struggle. He led Non-violence and Civil disobedience movements in a peaceful manner. He is known as the 'Father of the Nation'. The present lesson is taken from his autobiography 'My Experiments with Truth'. Shyness my Shield is a thought provoking lesson. Shyness is a feeling of discomfort to speak in public. It refers to social anxiety. Shield is a broad piece of metal used as a protection against blows. It presents Gandhi's shyness and his efforts to speak in public. He narrated 3 incidents where he failed to speak in public Vegetarian society in London, Vertrol and at Holborn Restaurant where he failed to speak in public. Gandhi made his shyness as an advantage. It taught him economy of words and spiritual discipline. Finally he considers shyness as a shield and buckler. The metaphor come from the Holy Bible. In Psalm 91:4 faithfulness is compared to shield and buckler...	
Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	Text
References Cited	
Student Activity Planned after the teaching	Roleplay
Any other activity	

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Proforma for Teaching Synopsis

Name of the Department / Subject	ENGLISH
Name of the Lecturer	Ch. Anika
Course / Group	BHARATI English
Paper	VI
Name of the Topic	Good Writing Skills
Hours Required	2
Learning Objectives	Use correct grammar
Previous Knowledge to be reminded	Appropriate style
Topic Synopsis:	Basic grammar for good writing skills. Grammar as systematic learning and explanation. A set of rules and examples related to a language's syntax and word content. It is usually designed to assist in language learning. Writing necessitates the use of grammar. Improving grammar skills benefit persons for writing. Grammar is inflexible, but it is a fundamental building block for proper English. Some prefer more structured grammar others use a comprehensive grammar. Grammar is important because it is the language that makes it possible for us to talk about language. It names the types of words and word groups that make up sentences not only in English but in any language.
Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	
References Cited	Chalk, board, material
Student Activity Planned after the teaching	
Any other activity	


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Proforma for Teaching Synopsis

Name of the Department / Subject	English
Name of the Lecturer	Ch Anita
Course / Group	MBA Sp English
Paper	Sem II 6C
Name of the Topic	Dictionary
Hours Required	3
Learning Objectives	using different resources
Previous Knowledge to be reminded	with confidence to write

Topic Synopsis:

In the learning of Foreign Language students are confronted with the problem of understanding. Students read some material but unable to understand that material. Some meanings of different words can be known by consulting a dictionary. Dictionary a never failing friend of a learner. helps the learner solving the problem of meanings. Dictionary teaches other things such as noun, verb, adverb, conjunction etc.

Characteristics: Improves knowledge of Grammar. Student becomes better learner of the language. becomes good in spelling. creates good habit of self learning expands vocabulary, helps in improvement of pronunciation. So choose English to English dictionary read the introduction find the section dictionary with first letter of the word.

Examples / Illustrations	
Additional Input*	
Teaching Aids Used	material, Chalk, board
References Cited	
Student Activity Planned after the teaching	
Any other activity	

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Proforma for Teaching Synopsis

Name of the Department / Subject	ENGLISH
Name of the Lecturer	Ch. Anika
Course / Group	B.A. English
Paper	VI
Name of the Topic	Good Writing Skills
Hours Required	2
Learning Objectives	Use correct grammar
Previous Knowledge to be reminded	Appropriate style
Topic Synopsis:	Basic grammar for good writing skills. Grammar as systematic learning and explanation. A set of rules and examples related to a language's syntax and word creation. It is usually designed to assist in language learning. Writing necessitates the use of grammar. Improving grammar skills benefit persons for writing. Grammar is inflexible, but it is a fundamental building block for proper English. Some prefer using structured grammar others use a comprehensive grammar. Grammar is important because it is the language that makes it possible for us to talk about language. It names the types of words and word groups that make up sentences not only in English but in any language.
Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	
References Cited	Chalk, board, material
Student Activity Planned after the teaching	
Any other activity	


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Proforma for Teaching Synopsis

Name of the Department / Subject	ENGLISH / SP-ENGLISH
Name of the Lecturer	Ch Anita
Course / Group	III BA Sp English
Paper	V SEM GC
Name of the Topic	Vocabulary
Hours Required	3
Learning Objectives	Write with confidence
Previous Knowledge to be reminded	write with confidence
Topic Synopsis: Vocabulary is a set of familiar words within a person's language usually developed with age. Fundamental tool for communication and acquiring knowledge. Vocabulary provide for clear communication of our ideas and thoughts. While writing university assignments essays, dissertations and exams all rely on linguistic skills for the expression of the ideas and provision of relevant answers. Strong vocabulary is essential as it will impact on the way work is presented and understood in terms of accuracy and completeness. Care of reading avoidance of misunderstandings as well as a demonstration of knowledge as long as excessive verbosity is avoided.	
Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	material
References Cited	
Student Activity Planned after the teaching	
Any other activity	


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Proforma for Teaching Synopsis

Name of the Department / Subject	English
Name of the Lecturer	Ch. Anita
Course / Group	MBA Sp English
Paper	Sem V 6C
Name of the Topic	Resources for writing paragraphs
Hours Required	3
Learning Objectives	using resources for effective writing
Previous Knowledge to be reminded	

Topic Synopsis: Thesaurus is a book that lists words in a group of synonyms a tool student can use to search synonyms and sometimes, antonyms of words. Synonyms are the words that have the same or almost same meaning as another word ex small = little antonym of small = big etc

Thesaurus can come in the form of a book electronic device a website or a web processing tool. Characteristics of Thesaurus:

- Avoid repeating the same words.
- Find the words students need to express the idea more effectively. more interestingly

Broaden Vocabulary through Inquiring about the new words and phrases
 Different senses of word are listed separately

Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	material, board, chalk
References Cited	
Student Activity Planned after the teaching	
Any other activity	

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Proforma for Teaching Synopsis

Name of the Department / Subject	ENGLISH
Name of the Lecturer	Ch Anita
Course / Group	MBA Sp. English
Paper	Sem V GC
Name of the Topic	Encyclopedia
Hours Required	3
Learning Objectives	Write with confidence
Previous Knowledge to be reminded	

Topic Synopsis: Encyclopedia is a book or a set of books giving information of various subjects or on many aspects of one subject. It contains general information about many topics or areas. Encyclopedia is used to find information about a person, place or thing. Articles found in encyclopedia is usually longer and contain more information than a dictionary. **Characteristics:** Contains variety of things, maps, pictures etc. Encyclopaedias are divided into articles entries which are usually present alphabetically. entries are longer and more detailed well organised. Encyclopaedias come in all sizes. Alphabetically arranged cut out etc.

Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	material, board, chalk
References Cited	
Student Activity Planned after the teaching	
Any other activity	


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Proforma for Teaching Synopsis

Name of the Department / Subject	English
Name of the Lecturer	Ch. Anila
Course / Group	B.A. English
Paper	Part I
Name of the Topic	Proofreading
Hours Required	3
Learning Objectives	Write with confidence
Previous Knowledge to be reminded	

Topic Synopsis: Proofreading is not just rereading what we've written with a fresh perspective. It gives the writer an opportunity to review their work to ensure that it flows well, doesn't cause the reader to stumble and still conveys a clear meaning. Proofreading is a final act to ensure that there is not any Grammatical error, Capitalisation error, numbering error, Spelling error, Inconsistent in the format of the document, misplaced words, sentence structure and punctuation mistakes. Effective proofreading is absolutely vital to the production of high quality scholarly and professional documents. Proofreading will get an error free report ready for publication. Proofreading shows that we take pride in our work and that it is the best we can make it.

Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	material, Chalk, board
References Cited	
Student Activity Planned after the teaching	
Any other activity	


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Proforma for Teaching Synopsis

Name of the Department / Subject	ENGLISH
Name of the Lecturer	Ch. Anita
Course / Group	MBA Sp English
Paper	Sem VI GC
Name of the Topic	Grammar and Punctuation
Hours Required	4
Learning Objectives	use correct grammar
Previous Knowledge to be reminded	expansion, appropriate style
Topic Synopsis: In a world where conversation happens through blogs, tweets and facebook posts using proper grammar is important as it reflects back on the writer and the business he/she is representing. If you want to keep readers and continue conversation its important to use proper grammar to avoid looking silly. Its vs it's It's - possessive form of its it Ex: Its network is down It's: Contraction of it Its important to understand grammar.	
Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	material, chalk, board
References Cited	
Student Activity Planned after the teaching	
Any other activity	


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Proforma for Teaching Synopsis

Name of the Department / Subject	ENGLISH
Name of the Lecturer	Ch. Aniba
Course / Group	III BA Sp English
Paper	VI SEM
Name of the Topic	Blogging Podcasts
Hours Required	1
Learning Objectives	Use digital resources for media writing
Previous Knowledge to be reminded	
Topic Synopsis:	Blogs are usually simple websites. Blogging is as simple as obtaining a website and publishing original content on it. Tech-Savvy bloggers can buy a domain name and build the website themselves. Those with less HTML knowledge can create an account with sites like Wordpress that simplify the web design and publishing process. All the posts in a blog are usually created by a single author etc... Podcasts are generally free and are available on a variety of platforms. An individual only needs a device and an internet connection to listen to podcasts. Podcasts are versatile enlightening and overpowering. One single medium has so much potential which should not be ignored by any marketer at time...
Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	material, chalk, board
References Cited	
Student Activity Planned after the teaching	
Any other activity	


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Proforma for Teaching Synopsis

Name of the Department / Subject	ENGLISH
Name of the Lecturer	Ch. Anita
Course / Group	III BA Sp English
Paper	V SEM
Name of the Topic	Blogging Podcasts
Hours Required	1
Learning Objectives	Use digital resources for media writing
Previous Knowledge to be reminded	
Topic Synopsis:	Blogs are usually simple websites. Blogging is as simple as obtaining a website and publishing original content on it. Tech-Savvy bloggers can buy a domain name and build the website themselves. Those with less HTML knowledge can create an account with sites like Wordpress that simplify the web design and publishing process. All the posts in a blog are usually created by a single author etc... Podcasts are generally free and are available on a variety of platforms. An individual only needs a device and an internet connection to listen to podcasts. Podcasts are versatile enlightening and overpowering. One single medium has so much potential which should not be ignored by any marketer at time...
Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	material, chalk, board
References Cited	
Student Activity Planned after the teaching	
Any other activity	


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Proforma for Teaching Synopsis

Name of the Department / Subject	ENGLISH
Name of the Lecturer	Ch. Anita
Course / Group	III BA Sp Eng
Paper	VLSEM
Name of the Topic	Media and Social Responsibility
Hours Required	4
Learning Objectives	
Previous Knowledge to be reminded	Gather and synthesize information from authentic sources
Topic Synopsis:	Sociologists study that mass media has some responsibility to aware the people. It is very important for any country to see how their mass media shapes their people's values, beliefs, perceptions and behaviour. Media draws its basic nutrients from the society to produce its contents to survive. Media gets its audience from society. Society uses media for educating and informing its individuals. Society uses media to bridge the communication gap between different social groups. Media has an obligation to society. It must show truth, accuracy, objectivity and balance. Media should be free but self-regulated (Codes of Conduct and ethics).
Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	material, Chalk, board
References Cited	
Student Activity Planned after the teaching	
Any other activity	


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Proforma for Teaching Synopsis

Name of the Department / Subject	ENGLISH
Name of the Lecturer	Ch. Anita
Course / Group	III B.A Sp English
Paper	Sem V 6 C
Name of the Topic	Media writing and translation
Hours Required	4
Learning Objectives	Gather and synthesize information from authentic sources
Previous Knowledge to be reminded	
Topic Synopsis:	Media translation entails the change of information from one language to the other mainly for the purpose of an easy understanding by a particular audience. Objectivity and neutrality are key issues in the media and although the two words are often used interchangeably. Objectivity and neutrality are very critical in the media and should not be underemphasized if the media is to be deemed effective in relaying important issues to the public. The problem becomes more influential when translation is involved and is therefore important that the different media personnel are fully aware of the issues associated with translation of news from one language to another to avoid undermining the objectivity and neutrality aspects of news.
Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	material, Chalk, board
References Cited	
Student Activity Planned after the teaching	
Any other activity	


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Proforma for Teaching Synopsis

Name of the Department / Subject	ENGLISH
Name of the Lecturer	Ch Anita
Course / Group	III B A Sp English
Paper	Scm VI GC
Name of the Topic	Sources of writing
Hours Required	9
Learning Objectives	Gather and synthesize information
Previous Knowledge to be reminded	from authentic sources
Topic Synopsis: Primary sources - source is someone at the center of the event or event written sources. Not all primary sources will be spoken. Whether reports can make an excellent source of information for a journalist. Leaked documents: may be given by someone in a company or government department who does not want to be seen giving them to the media often leaked by people who believe that public should know the contents. Secondary sources: Those people who do not make the news but who pass it on. Most eye witnesses should be treated as secondary sources for journalists. Tip-offs: Occasionally someone will call with a story tip-off but refuse to give their name said to be anonymous. Attribution: telling readers the name and title of the person interviewed or document of the information from. Most information given will be on record. A source that gives information as the understanding that you can use the information but not attribute it to them is non-attributable...	
Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	material, Chalk, board
References Cited	
Student Activity Planned after the teaching	
Any other activity	


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Proforma for Teaching Synopsis

Name of the Department / Subject	ENGLISH
Name of the Lecturer	Ch. Anile
Course / Group	III B A Sp English
Paper	Sem I GC
Name of the Topic	Writing for specialized areas: sports, cuisine, entertainment writing
Hours Required	4
Learning Objectives	Writing with confidence
Previous Knowledge to be reminded	differentiate between various types of writing
Topic Synopsis:	Sports writing is a form of non-fiction or creative journalism that covers sports, athletes or other sports related issues. Journalist who reports on sports is called a sports writer. Elements of sports writing covers highlights of the game, names of the teams involved, type of sport, score or final outcome when and where the game was played etc. Entertainment is an activity providing amusement and enjoyment for leisure or fun purposes. Can range from TV shows, live performances, events, musical extravaganza, games and adventures. Sports travelling and sight seeing and many more. Entertainment writing an exciting facet of the entertainment industry. Entertainment journalism is an incredible rewarding experience. Cuisine or food writing is a fiction category of writing that focuses on the topic of food. It can encompass a wide range of genres including journalism, recipe books, memoirs, travelogues etc.
Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	material, chalk, board
References Cited	
Student Activity Planned after the teaching	
Any other activity	

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Andhra Christian College, Guntur
Proforma for Teaching Synopsis

Name of the Department / Subject	
Name of the Lecturer	Ch. Anitha
Course / Group	MBA Sp English
Paper	Sem V BC
Name of the Topic	Informative, Descriptive, Persuasive Writing
Hours Required	9
Learning Objectives	
Previous Knowledge to be reminded	Differentiate between various types of media writing
Topic Synopsis:	Informative writing is non-fiction writing that occurs when facts and information are used to communicate knowledge and insight into a specific topic. It should be supported by sources and the writer needs to give credit to the source in which the information was found. Descriptive is all about description of something like any person, places and events. Considerably, we are describing convey an exact picture avoid cliches and formulaic writing etc. Descriptive helps to create a dominant impression mood or quality. They may be objective or subjective. Persuasive writing is a form of writing intended to convince readers to accept a particular idea to inspire action. It often involves considering the needs of the target audience an important skill etc...
Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	material, chalk, board
References Cited	
Student Activity Planned after the teaching	
Any other activity	


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Andhra Christian College, Guntur
Proforma for Teaching Synopsis

Name of the Department / Subject	English
Name of the Lecturer	Ch. Anila
Course / Group	B.A. English
Paper	Part I
Name of the Topic	Proofreading
Hours Required	3
Learning Objectives	Write with confidence
Previous Knowledge to be reminded	
Topic Synopsis:	Proofreading is not just rereading what we've written with a fresh perspective. It gives the writer an opportunity to review their work to ensure that it flows well, doesn't cause the reader to stumble and still conveys a clear meaning. Proofreading is an art to ensure that there is not any Grammatical error, Capitalisation error, numbering error, Spelling error, Inconsistent in the format of the document, misplaced words, sentence structure and punctuation mistakes. Effective proofreading is absolutely vital to the production of high quality scholarly and professional documents. Proofreading will get an error free report ready for publication. Proofreading shows that we take pride in our work and that it is the best we can make it.
Examples / Illustrations	
Additional Inputs	
Teaching Aids Used	material, Chalk, board
References Cited	
Student Activity Planned after the teaching	
Any other activity	


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