## Lesson Plan for PG First Year
## From 20th March Onwards

| | |
|---|---|
| Lecturer : | Ms. RUCHIKA SHARMA |
| Class with sem : | M.Sc – I (2nd sem) |
| Subject / Paper :- | Statistics for chemists \| 22-CHE-204 |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Measures of central tendency: Mean, Mode and Median. Measures of Dispersion :- Mean Deviation |
| 27 Mar to 01 Apr | standard deviation, coefficient of variation, Moments, Measures of skewness and Kurtosis. Probability Theory - probability |
| 03 Apr to 8 Apr | Probability and its applications. Various definitions of probability, Addition theorem, conditional Probability. |
| 10 Apr to 15 Apr | Independent events, Multiplication theorem, Baye's theorem. Random Variables: Discrete and continuous Random Variables |
| 17 Apr to 22 Apr | Distribution function and properties, Discrete Probability distribution: Binomial Poisson and Geometric. Continuous Probability distribution: Normal, Gamma, Exponential & LogNormal |
| 24 Apr to 29 Apr | Types of Hypothesis : Simple and Composite Hypothesis, Null and Alternative Hypothesis, two types of Errors, Level of significance, Power of the test, Critical Reason, Confidence intervals. |
| 01 May to 06 May | Sampling distribution : Student's t, F distribution and chi square, their properties and applications, Tests of significance based on chi-square. |
| 08 May to 13 May | Goodness of fit and independence of attributes t-distribution and F-distribution, Analysis of Variance : one way and two way analysis of variance. |

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| 15 May to 20 May | correlation: Karl pearson and spearman Rank correlation, Partial and Multiple correlations. |
| 22 May to 27 May | Curve fitting :- Method of least squares fitting, Linear, Polynomial, arbitrary functions, R- curve, Linear, Polynomial equations |
| 29 May Onwards | Regression Analysis :- Simple Regression Analysis, Regression Lines, Regression coefficients and its properties. |

Lesson Plan for PG First Year
From 20th March Onwards

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|---|---|
| Lecturer : | Ms. RUCHIKA SHARMA |
| Class with sem : | M.Sc.-I (2nd Sem) |
| Subject / Paper :- | Physical chemistry / 22-CHE-202 |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Third law of thermodynamics, Nernst heat theorem, concept of absolute entropy, Heterogeneous equilibrium, Phase rule, Clausius - Clapeyron equation, Phase |
| 27 Mar to 01 Apr | Phase diagram for one-component system ($H_2O$ & S), two completely miscible compone-nts, two component system with congruent and incongruent melting point |
| 03 Apr to 8 Apr | calculation of Eutectic point. Effect of temp on reaction rates, Arrhenius equation, collision theory of reaction rates, thermodynamic - formulation of A.C theory. |
| 10 Apr to 15 Apr | correlation between various theories of reaction rates. Enzymatic reaction :- Michaelis-Menton treatment, evaluation of Michaeli's constant for enzyme - substrate binding by Line-weaver Burk-plot, concept of inhibition. |
| 17 Apr to 22 Apr | Statistical thermodynamics introduction, microstates and macrostates, concept of distribution, thermodynamic probability |
| 24 Apr to 29 Apr | & most probable distribution for Maxwell-Boltzmann statistics, Bose-Einstein & Fermi-Dirac statistics, identification of constant $\alpha$ and $\beta$ |
| 01 May to 06 May | partition function and its significance, Application of Bose-Einstein statistics for a photon gas, Application of Fermi-Dirac statistics. |
| 08 May to 13 May | Partition function, relation between molar and molecular partition function, multi-plication theorem of Partition Function. |

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| 15 May to 20 May | Thermodynamic properties in terms of Partition function. Laws of Photochemistry (Grothus Draper law, stark Einstein law of photochemical equivalence & Lambert-Beer's law) quantum yield, quantum efficiency and reasons for high and low quantum yields singlet and triplet states, Jablonskii diagram, photophysical processes (radiative and non-radiative), fluorescence, phosphorescence and chemiluminescence, kinetics of photophysical processes, relaxation time, kinetics of quenching-stern-Volmer eqn photochemical rxns: photoreduction, photooxidation, photodimerization, photochemical substitution. |
| 22 May to 27 May | |
| 29 May Onwards | |

## Lesson Plan for PG First Year
## From 20th March Onwards

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|---|---|
| Lecturer : | Ms. JYOTIKA |
| Class with sem : | M.Sc-I (2nd Sem) |
| Subject / Paper :- | Inorganic Chemistry |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Reaction Mechanism of Transition Metal Complexes - Mechanism of ligand, Displacement Reactions in Square planal Complexes, The Trans effect, Theories of Trans effect, Mechanism of electron transfer reactions - |
| 27 Mar to 01 Apr | types, outer sphere electron Transfer Mechanism & inner sphere electron transfer Mechanism, electron exchange. Magnetic Properties of Transition Metal Complex: Elementary theory of magnetism - chemistry, Guoy's method of determination of Magnetic susceptibility, Calculation of Magnetic moment, |
| 03 Apr to 8 Apr | Magnetic properties of free ions, orbital contribution, effect of ligand-field, application of Magnetic-chemistry |
| 10 Apr to 15 Apr | Unit II - Electronic spectra & Magnetic Properties of Transition Metal complexes: Electronic arrangements of Microstates, Calculation of the no. of Microstates, spectroscopic Term symbols, determining the ground state terms - Hund's |
| 17 Apr to 22 Apr | Rule, correlation & spin - orbit Coupling in free ions for 1st series of Transition Metals, Orgel & Tanabe Sugano Diagram for Transition Metal Complexes |
| 24 Apr to 29 Apr | ($d^1$-$d^9$) states, Calculation of Dq, B & β parameters effect of distortion of d-orbital energy levels, Structure evidence from electronic spectrum. |
| 01 May to 06 May | Spectrochemical & nephalauxetic series, charge Transfer spectra, Anomalous Magnetic Moments, Magnetic exchange Coupling & spin crossover. Unit - III. |
| 08 May to 13 May | Metal π Complexes :- Valence electron cloud (16/18 electron rules), Compliance & violation of 18 e Rule, Total e count, Metal Carbonyl - structure & Bonding |

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| 15 May to 20 May | Vibrational spectra of Metal Carbonyls for Bonding & structural elucidation. Imp. reactions of Metal Carbonyls, Preparation & Bonding, Structure & imp reactions of Transition Metal Nitrosyl. |
| 22 May to 27 May | Unit IV -<br>Metal clusters :- Structure & Bonding in Metal Carbonyl clusters, Higher Boranes, Carboranes, Metalloboranes & Halide clusters |
| 29 May Onwards | Crystal structure :-<br>Fluorite, Antifluorite, Rutile, Antirutile, Crystobalite, layer lattice - $CdI_2$, $BiI_3$, $ReO_3$, $Mn_2O_3$, Corundum, Ilmenite, Calcite, Normal & inverse spinels. |

## Lesson Plan for PG First Year
## From 20th March Onwards

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|---|---|
| Lecturer : | Ms. Mansi |
| Class with sem : | Msc- chemistry 2nd Sem |
| Subject / Paper :- | Organic chemistry - 2nd sem (Practical) |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Organic Synthesis : preparation of following compounds :- (i) Sym- tribromophenol from phenol. |
| 27 Mar to 01 Apr | (ii) preparation of Benzilic Acid from Benzoin. |
| 03 Apr to 8 Apr | (iii) preparation of Sulphanilic acid from Aniline. |
| 10 Apr to 15 Apr | (iv) preparation of m-dinitro benzene from Nitrobenzene. |
| 17 Apr to 22 Apr | (v) preparation of p-nitroaniline from aniline. |
| 24 Apr to 29 Apr | (vi) preparation of p-nitro acetanilide from aniline. |
| 01 May to 06 May | Qualitative Analysis :- Separation and identification of the compounds of binary mixtures (only solids) by chemical tests |
| 08 May to 13 May | preparation of Derivatives and Qualitative organic Analysis continued... |

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| 15 May to 20 May | Separation and identification of the compounds of Binary mixtures (only solids) tests, Derivatization. |
| 22 May to 27 May | Mixture Questions discussions and Separation techniques discussions. |
| 29 May Onwards | Reaction Mechanisms discussions and Revision of Procedures, Reagents used. |

## Lesson Plan for PG First Year
## From 20th March Onwards

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|---|---|
| Lecturer : | Mrs. Pooja Sharma |
| Class with sem : | M.Sc Chemistry (IInd Sem) |
| Subject / Paper :- | Physical Chemistry Practical |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Introduction of chemical kinetics |
| 27 Mar to 01 Apr | Determination of temperature coefficient for the 1st order reaction |
| 03 Apr to 8 Apr | Determination of activation energy for the hydrolysis of ethyl acetate in presence of acid. |
| 10 Apr to 15 Apr | Introduction of Ultrasonic Interferometry |
| 17 Apr to 22 Apr | Determination of speed of sound for a given liquid |
| 24 Apr to 29 Apr | Determination of speed of sound for a given mixture |
| 01 May to 06 May | Introduction of Potentiometry |
| 08 May to 13 May | Potentiometric Titration of strong Acid vs. Strong Base |

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| 15 May to 20 May | Potentiometric Titration of weak Acid vs strong Base |
| 22 May to 27 May | Introduction of Refractometry.<br>Determination of refractive index of the given liquids |
| 29 May Onwards | Revision of complete syllabus |

## Lesson Plan for PG First Year
## From 20th March Onwards

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|---|---|
| Lecturer : | Ms. Vidushi |
| Class with sem : | M.Sc Chemistry |
| Subject / Paper :- | Inorganic chemistry IInd Sem. (Practical) |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Introduction of Volumetric and gravimetric Analysis. |
| 27 Mar to 01 Apr | Gravimetric Method → Separation and determination of two metal Ions. |
| 03 Apr to 8 Apr | Gravimetric Method → Separation and determination of two metal Ions - Cu, Ni |
| 10 Apr to 15 Apr | Gravimetric method → Separation and determination of two metal Ions - Ni-Zn |
| 17 Apr to 22 Apr | Gravimetric method → Separation and determination of two metal Ions - Cu, Fe |
| 24 Apr to 29 Apr | Introduction of Spectrophotometric method. |
| 01 May to 06 May | Callibration of Spectrophotometer. |
| 08 May to 13 May | To obtain the Spectral absorption curve of the given substance using Spectrophotometer |

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| 15 May to 20 May | Determine the amount of Iron III in the given solution using EDTA solution by spectrophotometrically method. |
| 22 May to 27 May | Viva- Voce |
| 29 May Onwards | Discussion on Quantitative Analysis. |

## Lesson Plan for PG First Year
## From 20th March Onwards

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|---|---|
| Lecturer : | Ms. Manci |
| Class with sem : | Msc. I$^{st}$ (2$^{nd}$ Sem) |
| Subject / Paper :- | 22CHE-203 (Organic Chemistry - II) |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Aromatic Electrophilic Substitution: Arenium ion Mechanism, Orientation and reactivity, energy profile diagrams, o/p ratio, ipso attack and orientation in other ring systems. |
| 27 Mar to 01 Apr | Diazonium coupling, Gattermann Koch reaction, Vilsmeir Haak reaction, Reimer-Tiemann reaction Fries rearrangement. Aromatic Nucliophilic Subst$^{n}$: The AeSN$^{1}$, AeSN$^{2}$, |
| 03 Apr to 8 Apr | Benzyne and SN$^{1}$ Mechanisms, Reactivity-effect of substrate structure, leaving group and the medium, Staytzeff rule, attacking Nucliophile Theron richter and Smiles rearrangement. |
| 10 Apr to 15 Apr | Elimination Reactions: The E1, E2 and E1cb Mech; Orientation effects in elimination reactions, reactivity:- effect of Substrate structure, the attacking base, the leaving group and the medium |
| 17 Apr to 22 Apr | Saytzeff and Hoffman rules, Stereochemistry of E$_2$ elimination reactions and eclipsing effects in E$_2$ elimination. Addition to Carbon-carbon Multiple bonds: Mechanistic and Stereochemical aspects of addition reactions involving electro-philes, Nucliophiles and Free radicals, regio and chemoselectivity, Orientation and reactivity. |
| 24 Apr to 29 Apr | |
| 01 May to 06 May | Hydrogenation of double and triple Bonds, Hydrogenation of Aromatic Compounds, Hydroboration, Michael Reaction, Sharpless asymmetric epoxidation. |
| 08 May to 13 May | Addition to Carbon-Hetero Multiple Bonds:- Reactivity of Carbonyl Compounds towards addition, Addition of Grignard reagents to Carbonyls and α-β-Unsaturated Carbonyls Compounds. |

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| 15 May to 20 May | Wittig reaction, Mechanism of metal hydride reduction of Saturated and Unsaturated carbonyl compounds, acids, esters and nitriles. Addition of Organozinc and Organolithium reagents. |
| 22 May to 27 May | Mechanism of condensation reactions involving enolates - Aldol, Knoevenegel, Claisen, Mannich, Robinson, Reformatsky, Benzoin, perkin and Stobbe reaction. Hydrolysis of esters & Amides. |
| 29 May Onwards | Rearrangements: Classification and general mechanistic treatment of Nucleophilic, free radical and electrophilic rearrangement Wagner Meerwein, Pinacol-pinacolone, Benzil-Benzilic acid, Favorskii, Steven, Wittig, Neber, Wolff, Beckmann, Hofmann, Curtius, Losseen, Schmidt, Bayer-Villiger. |

## Lesson Plan for PG First Year
## From 20th March Onwards

(MSc. Physics)

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|---|---|
| Lecturer : | Dr. Indu Vashistha. |
| Class with sem : | MSC Physics 2nd Sem. |
| Subject / Paper :- | Physics (Quantum Mechanics-II) 19PHY-201 |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Stationary Perturbation theory: Non Degenerate Case – First order and 2nd order Corrections to energy eign values and eign functions. Perturbation of an oscillator |
| 27 Mar to 01 Apr | Ground state of Helium atom: Degenerate Case - Removal of degeneracy in 2nd order First order Stark effect in n=2 State of Hydrogen. |
| 03 Apr to 8 Apr | Rayleigh – Ritz Variational Method. Unit-I Complete and Test. |
| 10 Apr to 15 Apr | The WKB approximation; First order Time Dependent Perturbation theory, Transition Probability for Constant and harmonic Perturbations. Transition to a group of final States. |
| 17 Apr to 22 Apr | Fermi golden rule. Interaction of an atom with radiation (Semi classical theory) Transition Probability for Induced absorption and emission. Electric dipole Transition |
| 24 Apr to 29 Apr | Unit-II Test. UNit-III :- Scattering experiments and cross sections, Labo-ratory and Centre of-mass Systems. Scattering amplitude and cross section, |
| 01 May to 06 May | Method of Partial waves: Phase Shift Differential and total cross sections. Reln b/w Phase shift and Scattering Potential. Convergence of Partial-wave Series |
| 08 May to 13 May | Scattering by a finite square well. Scattering by hard sphere Potential. Born series, First Born approximation. Scattering of an e⁻ from Screened Coloumb Potential. |

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| 15 May to 20 May | Scattering of two identical Spinless bosons and Spin $\frac{1}{2}$ Fermions. Test of unit-3 |
| 22 May to 27 May | Many Particle Schrodinger wave eq", Identical Particles; Physical Meaning of identity Principal of indistinguishibility and its Consequence. Exchange operator, |
| 29 May Onwards | Symmetric and Antisymmetric wave function Fermions and Bosons. Pauli' exclusion Principle and Slater determinant. Helium atom Spectra. Test of unit-4 |

## Lesson Plan for PG First Year
## From 20th March Onwards

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|---|---|
| Lecturer : | Ms. Sujata |
| Class with sem : | Msc Physics (2nd sem) |
| Subject / Paper :- | Physics (Nuclear & Particle physics) / PHY-202 |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Two nucleon problem and nuclear forces: The deuterons Binding energy, dipole moment, quadrupole moment and the evidences of non-central force. |
| 27 Mar to 01 Apr | Spin dependence of nuclear force, nucleon-nucleon Scattering; s-wave effective range theory, Charge independence and charge Symmetry of nuclear forces, iso-spin |
| 03 Apr to 8 Apr | Types of nuclear Reactions and direct nuclear Rxn, Reaction cross-section, Balance of mass and energy in nuclear reactions, Q eqn & its soln, Liquid drop model, similarities b/w L.D.M & nucleus |
| 10 Apr to 15 Apr | Semi-empirical mass formula, Bohr-Wheeler theory of fission, Merits & Limitations of Liquid drop model, shell Model |
| 17 Apr to 22 Apr | Experiment evidences for shell effect, Magic No's, Main assumptions of single particle shell Model, spin-orbit coupling, Estimations of spin, parities & magnetic moments |
| 24 Apr to 29 Apr | Nuclear decays, alpha decay, $\alpha$- disintegration energy, range of $\alpha$ particles, range-energy relationship for $\alpha$-particles & Geiger-nutall law, Beta Decay, Pauli's neutrino hypothesis. |
| 01 May to 06 May | Fermi theory of Beta Decay, Kurie plot, selection rules for beta Decay, Fermi & Gamow-Teller transition, Parity non-Conservation in beta Decay |
| 08 May to 13 May | Detection & properties of neutrino, Gamma Decay, multipole transition in nuclei, Angular momentum & parity selection rules, internal Conversion. |

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| 15 May to 20 May | Classification of particles, fermions & bosons, particles & antiparticles, Strange particle, Basic idea of different types of interactions with suitable examples. |
| 22 May to 27 May | Quark flavours & their quantum No's, Quark as constituents of Hadrons, Qualitative idea of Quark Confinement & asymptotic freedom |
| 29 May Onwards | necessity of introducing colour quantum No, unitary gp, classification of elementary particles, charge Conjugation, time reversal, Higgs boson. |

## Lesson Plan for PG First Year
## From 20th March Onwards

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|---|---|
| Lecturer : | Ms. Deepika Sharma |
| Class with sem : | Msc Ist year (2nd Sem) |
| Subject / Paper :- | Solid State Physics. |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Basic Concepts : Bravais lattice & Primitive vectors. Weigner - Seitz, Unit cells, Conventional . Introduction of determination of crystal structure by diffraction |
| 27 Mar to 01 Apr | Reciprocal lattice and Brillouin Zones (Sc, BCC FCC lattices) Bragg and Laue formulation of X-ray diffraction by a crystal and their equivalence. |
| 03 Apr to 8 Apr | Laue equations, Ewald construction, Brillouin Zone Interpretation, crystal and Atomic structure factors, structure factor of the BCC, FCC lattices. |
| 10 Apr to 15 Apr | Classical theory of lattice vibration, vibration of crystal with monoatomic basis - Dispersion relation, First Brillouin Zone, Group Velocity, Two atoms per primitive bases - acoustical & optical |
| 17 Apr to 22 Apr | Quantization of lattice vibration : Phonons, Phonon - momentum, Inelastic scattering of neutrons by phonons, Thermal properties : Lattice heat Capacity, Einstein Model of heat Capacity |
| 24 Apr to 29 Apr | Free electron gas model in 3-D ; Density of States, Fermi-energy, Effect of temperature, Heat Capacity of electron gas, Experimental heat Capacity of metals, Thermal effective mass, Electrical Conductivity |
| 01 May to 06 May | Ohm's law, Motion in magnetic fields and Hall effect Failure of the free electron gas model and Band Theory of Solids : Periodic potential and Bloch's Theorem, Kronig-Penney Model, Periodic, extended and reduced |
| 08 May to 13 May | Energy band representation, No. of orbitals in a band, classification into metals, semi-conductors & Insulators, Tight binding method and its application to SC and BCC structure |

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| 15 May to 20 May | Experimental survey: Superconductivity and its occurrence, Destruction of superconductivity by magnetic fields, Meissner effect, Type I and Type II superconductors, Isotope effect |
| 22 May to 27 May | Thermodynamics of the superconducting transition London equation, Coherence length, Microscopic Theory |
| 29 May Onwards | BES Theory, Ground State BCS Theory, Flux Quantization in a superconducting ring, DC and AC Josephson Effect, High $T_c$ Superconductors. |

## Lesson Plan for PG First Year
## From 20th March Onwards

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|---|---|
| Lecturer : | Dr. Ankita Gupta. |
| Class with sem : | M.Sc Physics 2nd sem |
| Subject / Paper :- | Electronics Devices & ckt - II |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Differential amplifier, CMRR, emitter Caupled supplied with Constant current, transfer characteristics of differential amplifier. |
| 27 Mar to 01 Apr | Differential DC amplifier, Opamp, Blacke diagram, apen laap Configuration, characteristics of apen laap configuration, clased laap Configurations, virtual ground Concept, Universal Vallancing tech. |
| 03 Apr to 8 Apr | Pasitive feedback, Summing & Scaling, Integrator, differentiator, Filters, Lagarithmic & anti lagarithmic amplifier, Valtage Fallawer, Valtage to current & current to valtage Canverter, Bridge amplifier, |
| 10 Apr to 15 Apr | DAC & ADC Cull & Revision of unit 1 & 2. |
| 17 Apr to 22 Apr | Switching ckt of a transistor, Switching time in a transistor, multivibrators, Astable multivibrator, Emitter Caubled Astable multivibrators, Manastable multivibrators. |
| 24 Apr to 29 Apr | Emitter Caupled manastable multivibrators, Bistable multivibrators, Schmitt trigger Complete. Law frequency ascillators & high frequency ascillators. |
| 01 May to 06 May | Radiative & non radiative transitions, basic Constructions. Revision af unit - 3. |
| 08 May to 13 May | Application af Salar Cell, LDR, Phatadiades, avalanche phatadiade, Pin phatadiade, metal s/c phatadiades. |

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| 15 May to 20 May | LED, IC diode laser, Phato transistors Resistance thermometers, thermocouples, Thermistors. |
| 22 May to 27 May | Unit - 1 2 3 Revision. |
| 29 May Onwards | Unit - 3 & 4 Revision. |

## Lesson Plan for PG First Year
## From 20th March Onwards

| | |
|---|---|
| Lecturer : | Ms. SHEETAL |
| Class with sem : | M.Sc.- I ( 2nd Semester) |
| Subject / Paper :- | Vedic Mathematics |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Introduction to Vedic Mathematics, History of Vedic mathematics, Problems in Vedic Mathematics, Discussion |
| 27 Mar to 01 Apr | Number System and their applications in Vedic Mathematics, Multiplication of any number by numbers containing digit 1 only |
| 03 Apr to 8 Apr | Multiplication of any number by numbers containing digit 9 only, Multiplication any number Using sutra – Urdhatiryagbhyam |
| 10 Apr to 15 Apr | Multiplication using base and sub-base method Multiplication using Ekadhikna Sutra Sum and Difference of Products |
| 17 Apr to 22 Apr | Square using Nikhilam Sutra, Question Practice, Discussion Test-1 |
| 24 Apr to 29 Apr | Square using Duplex Method, Sum and Difference of Squared Numbers, Sum & Difference of squared and product numbers |
| 01 May to 06 May | Cube using Nikhilam and Anurupyena Sutra, Division using Dhwajanak Method Discussion, Test-2 |
| 08 May to 13 May | Meru- Prastar and Their applications, Square and cube root, Algebraic Multiplication |

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| 15 May to 20 May | Algebraic Multiplication, Problems based on certain topics, Problem Solution and Discussion Test-3 |
| 22 May to 27 May | Sum and Difference of algebraic products, Square and square root of algebraic expression, Discussion |
| 29 May Onwards | Simultaneous simple Equations, Miscellaneous simple Equations, Auxiliary Fractions Triplets, Discussion, Problem solution |

## Lesson Plan from 20-March-2023 to 27-May-2023

PG - Final Year

M.A. (English)

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|---|---|
| Lecturer : | Mrs. Richa |
| Class with sem : | M.A. English Sem-4 |
| Subject / Paper :- | Modern Indian Writings |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Introduction to the syllabus and the examination scheme |
| 27 Mar to 01 Apr | Introduction to the poet- Ghalib, explanation of the Ghazals and Discussion on main themes and ideas. |
| 03 Apr to 8 Apr | Introduction to the poet- Faiz Ahmed Faiz, explanation of the Ghazals and Discussion on main themes and ideas. |
| 10 Apr to 15 Apr | Introduction to the writer- Prem Chand Introduction to the characters of the novel- Godan |
| 17 Apr to 22 Apr | Explanation of the novel- Godan |
| 24 Apr to 29 Apr | Explanation of the novel, Discussion on main characters, title, themes and main ideas of the novel. |
| 01 May to 06 May | Introduction to the play and the writer- Silence! The Court is in Session by Vijay Tendulkar & Explanation of the play |
| 08 May to 13 May | Discussion on the play's characters, main ideas and themes. Introduction to the writer "Sadat Hasn Manto". |

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| 15 May to 20 May | Explanation of Manto's stories and their characters, Discussion on the themes and main ideas, Assignment, Test and Revision |
| 22 May to 27 May | Doubt removal classes and Revision |

Lesson Plan from 20-March-2023 to 27-May-2023
PG - Final Year

| | |
|---|---|
| Lecturer : | Ms Pooja Lamba |
| Class with sem : | MA. English Sem - 4 |
| Subject / Paper :- | World Drama |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Introduce the students to major trajectories of world Drama and introduction of famous playwrights. |
| 27 Mar to 01 Apr | Introduce the students to Christopher Marlowe ; his works & writing style. |
| 03 Apr to 8 Apr | Discuss the play Doctor Faustus by Christopher Marlowe and Doctor Faustus as a tragedy. Discuss important questions. |
| 10 Apr to 15 Apr | Introduce students to Henrik Ibsen his major works and writing style. Brief introduction of the Play "A Doll's House. |
| 17 Apr to 22 Apr | Detailed discussion of the play "A Doll's house". Important questions of the play. |
| 24 Apr to 29 Apr | Introduction to the playwright "Bertold Brecht" his major works and writing style". |
| 01 May to 06 May | Textual reading of the play "Mother Courage and her children" Detailed discussion of major themes of the play. |
| 08 May to 13 May | Discussion of Important questions of the play "Mother Courage and her children". Introduction of the playwright Luigi Pirandello |

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| 15 May to 20 May | Discussion of the major works and writing style of Pirandello.<br>Introduction to the play Six Characters in Search of an author |
| 22 May to 27 May | Detailed study of the play and discussion of important questions.<br>Important questions of the syllabus. |

Poojalaxmi

## Lesson Plan from 20-March-2023 to 27-May-2023
### PG - Final Year

| | |
|---|---|
| Lecturer : | Ms. Riya Gupta |
| Class with sem : | M. A. Final ( 4th Sem ) |
| Subject / Paper :- | World Fiction. |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Introduced the students to various ages and their characteristics. |
| 27 Mar to 01 Apr | Discussed the novella " Chronicle of a Death Foretold" as the mirror of post-colonial society. |
| 03 Apr to 8 Apr | Introduced the writing techniques and style of Gabriel Garcia Marquez. |
| 10 Apr to 15 Apr | Discussed satiric nature of the novella and started the discussion of " Madame Bovary's " Background relevance. |
| 17 Apr to 22 Apr | Introduced the elements of realistic novels and how Gustave Flaubert expertises in the portrayal of characters. |
| 24 Apr to 29 Apr | Organised a detailed group discussion on both the novels discussed till the date. |
| 01 May to 06 May | Organised house tests and started the introduction of " Crime and Punishment". |
| 08 May to 13 May | Discussed the Russian writing styles and societal norms with students and taught the novel as a psychological novel. |

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| 15 May to 20 May | Introduced "The Trial" by Franz Kafka to the students as a strong satirical work. |
| 22 May to 27 May | Discussed the justice system of Brahman society and concluded the syllabus with presentation. |

Sujit Gupta

## Lesson Plan from 20-March-2023 to 27-May-2023
### PG - Final Year

| | |
|---|---|
| Lecturer : | Mrs. Mainka |
| Class with sem : | M.A. Final, Sem - VI |
| Subject / Paper :- | Film Studies |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Introduction to the syllabus and the Examination Scheme. |
| 27 Mar to 01 Apr | Basic familiarity with the terms related to Film Studies ie. Action, Adaptation, Anti-hero, Black Comedy, Dialogue, Genres etc. |
| 03 Apr to 8 Apr | Introduction of the Director Baz Luhrmann. Introduction to the characters of the movie. Discussion on Plot and Structure of the movie. |
| 10 Apr to 15 Apr | Discussion on the actual text on which the movie is adapted. Discussion on difference between the movie and the original text. |
| 17 Apr to 22 Apr | Discussion on Questions and important themes of the movie ie central theme. Introduction to 'Satyajit Ray'. Discussion on plot and characters of the movie. |
| 24 Apr to 29 Apr | Discussion on the actual text by Munshi Premchand on which the movie is adapted. Discussion on questions based on the movie. |
| 01 May to 06 May | Introduction to 'Govind Nihalani' and the story of 'Ardh Satya (1983)'. Discussion on plot and structure of the movie. |
| 08 May to 13 May | Discussion on questions based on the movie. Revision and Test. |

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| 15 May to 20 May | Revision of Unit I and Unit II<br>Test of Unit I and Unit II |
| 22 May to 27 May | Revision of Unit III and Unit IV.<br>Test of Unit III and Unit IV.<br>Doubt removal classes. |

## Lesson Plan from 20-March-2023 to 27-May-2023
## PG - Final Year

| | |
|---|---|
| Lecturer : | Ms. Jyoti |
| Class with sem : | M.A. English - 4th sem. |
| Subject / Paper :- | World Poetry |

| Week | Topics |
|---|---|
| 20 Mar to 23 Mar | — |
| 27 Mar to 01 Apr | Introduction of Walt Whitman, Explanation of poem "I celebrate Myself", "Grass," "Animals" and "I saw in Louisiana" and "My Barbaric Yawp" |
| 03 Apr to 8 Apr | Explanation of poems "O Captain! My Captain!" and "Passage to India" Introduction of Derreck Walcott. Explanation of "The Sea in History" and "The Saddhu of Couva" |
| 10 Apr to 15 Apr | Explanation of poems "A City's death by fire". Doubt Class of Unit 1 and Unit 2. Class test of Unit 1 & Unit 2. |
| 17 Apr to 22 Apr | Assignment on Unit-2. Introduction of Rilke. Explanation of poems "Requiem for a friend" |
| 24 Apr to 29 Apr | Explanation of poem "Ariel". Introduction of Pablo Nasruda and Doubt Class of Unit-3. |
| 01 May to 06 May | Explanation of poem "So that you will hear me" and "In my sky at twilight" |
| 08 May to 13 May | Explanation of poem "Here I Love You" and "Tonight I can write" |

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|---|---|
| 15 May to 20 May | Doubt Class of Unit-4. Revision of Unit 1 and Unit 2 and Revision Tests of the same units. |
| 22 May to 27 May | Revision of Unit 3 and Unit 4 and Revision Tests of the same unit and Doubt Class. |

Jyoti

## Lesson Plan from 20-March-2023 to 27-May-2023
## PG - Final Year

| | |
|---|---|
| Lecturer : | Ms. Jyoti |
| Class with sem : | M.A. English – 4th Sem. |
| Subject / Paper :- | Literary Theory & Criticism-III |

| Week | Topics |
|---|---|
| 20 Mar to 23 Mar | — |
| 27 Mar to 01 Apr | Introduction of Sigmund Freud and detailed discussion of the essay "The Material and Sources of Dreams" |
| 03 Apr to 8 Apr | Introduction of Jacques Lacan and the concept of psychoanalysis. Detailed discussion on essay "The Mirror Stage" Doubt Class of Unit 1. |
| 10 Apr to 15 Apr | Introduction of Terry Eagleton and Marxism. Detailed discussion of essay "Literature and History" |
| 17 Apr to 22 Apr | Continued Explanation and discussion on the essay of Terry Eagleton and Doubt Class. Class test of Unit 1 & 2. |
| 24 Apr to 29 Apr | Introduction of Stephan J. Greenblatt and detailed discussion of his essay "Counterhistory and Anecdote" |
| 01 May to 06 May | Continued explanation and discussion of the essay. Doubt Class of Unit-3. Introduction of Jean-Francois Lyotard. |
| 08 May to 13 May | Detailed Explanation and discussion of the essay "What is Postmodernism". Doubt Class of Unit-4. |

| | |
|---|---|
| 15 May to 20 May | Revision of Unit 1 and Unit-2. Class tests of Unit 1 and 2. & Doubt Classes. |
| 22 May to 27 May | Revision of Unit 3 and Unit-4. Class tests of the same unit and Doubt Classes. |

Jyoti

## Lesson Plan for PG First Year
## From 20th March Onwards

M.A. English.

| | |
|---|---|
| Lecturer : | Ms POOJA LAMBA |
| Class with sem : | M.A. I , sem II |
| Subject / Paper :- | Communication Skills |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Introduce students to communicative skills.<br>Introduction to unit I : Human Communication<br>Difference between verbal and non-verbal Communication |
| 27 Mar to 01 Apr | Introduction :- Barriers to Communication ,<br>Introduction to 7 c's of effective Communication<br>Introduction to Unit II : Listening & Speaking Skills |
| 03 Apr to 8 Apr | Introduce Students to Listening & Speaking skills through dialogue based conversations<br>Importance and purpose of listening<br>Effective listening and its benifits. |
| 10 Apr to 15 Apr | Introduction to the topics of Greeting and introduction, making requests. Participating in conversations. Describing people, places, events etc. (Dialogue based writing on the topics) |
| 17 Apr to 22 Apr | Introduced students to Telephone communication<br>How to handle calls, Telephone Etiquette<br>Practice of the given topics |
| 24 Apr to 29 Apr | Introduction to Unit III :-<br>Reading Skills and writing skills.<br>Introduction to styles of reading. |
| 01 May to 06 May | Types of reading, Guidelines to effective reading.<br>Introduction of writing Skills |
| 08 May to 13 May | Practice of writing Letters, Reports, memos & notices. Formats of writing letters etc.<br>Email etiquette & Resume writing. |

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|---|---|
| 15 May to 20 May | Introduction to Unit-IV :- Personality development skills<br>Introduce students to Personal grooming |
| 22 May to 27 May | Introduction to SWOT/SWOC analysis, How to manage Stress and anger How to manage time. |
| 29 May Onwards | Introduce students to cross cultural communication.<br>Oral and written practice of given topics |

Pooja Gupta

## Lesson Plan for PG First Year
## From 20th March Onwards

| | |
|---|---|
| Lecturer : | Ms. Jyoti , Ms. Richa |
| Class with sem : | M.A. English 2nd sem. |
| Subject / Paper :- | Literary Theory and Criticism. |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Introduction to syllabus and paper pattern and answering the questions. |
| 27 Mar to 01 Apr | Introduction of Bharat Munni and explanation of chapter 7 of Natyashastra |
| 03 Apr to 8 Apr | Explanation of chapter 34 of Natyashastra and doubt class. |
| 10 Apr to 15 Apr | Introduction of William Wordsworth and explanation "Lyrical Ballads" critical essay. |
| 17 Apr to 22 Apr | Continued explanation and Doubt Class. Introduction of Matthew Arnold. Home Exam of Unit 1 and Unit 2. |
| 24 Apr to 29 Apr | Explanation of "The Function of Criticism at the Present Time" and "The Study of Poetry" and Doubt Class |
| 01 May to 06 May | Introduction of T.S Eliot as a critic. Explanation of "Tradition and Individual Talent" |
| 08 May to 13 May | Explanation of "The Function of Criticism" and Doubt Class. |

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|---|---|
| 15 May to 20 May | Revision of Unit 1, 2, class test and doubt class of same. |
| 22 May to 27 May | Revision of Unit 3, 4, class test and doubt class of same |
| 29 May Onwards | Revision and Doubt Classes. |

Jyoti.

## Lesson Plan for PG First Year
## From 20th March Onwards

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|---|---|
| Lecturer : | Ms. Aastha Vats |
| Class with sem : | M.A. I , Sem. II |
| Subject / Paper :- | Environment and Energy Management. |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Meaning and Definition of Pollution, Types of Pollution ; Introduction of Pollution. |
| 27 Mar to 01 Apr | Air Pollution : Causes, Risk Factors, Prevention Strategies of Air Pollution |
| 03 Apr to 8 Apr | Water Pollution: Causes, Risk Factors, Prevention Strategies of Water, Pollution, Noise Pollution |
| 10 Apr to 15 Apr | Causes, Risk Factors, Prevention Strategies of Noise Pollution, Introduction of Thermal Pollution. |
| 17 Apr to 22 Apr | Causes, Risk Factors and Prevention Strategies of Thermal Pollution, Introduction of Soil Pollution. |
| 24 Apr to 29 Apr | Causes, Risk factors and Prevention Strategies of Soil Pollution. |
| 01 May to 06 May | Meaning and Definition of Renewable and Non-Renewable Sources of Energy. |
| 08 May to 13 May | Types of Renewable Source of Energy with explanation and examples. |

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|---|---|
| 15 May to 20 May | Types of Non-Renewable Sources of Energy with Explanation and examples. |
| 22 May to 27 May | Environment Management System; Its explanation with strategies. |
| 29 May Onwards | Energy Management System, Its explanation with Strategies. |

Apsitha Vats

## Lesson Plan for PG First Year
## From 20th March Onwards

| | |
|---|---|
| Lecturer : | Mrs. Richa Arya |
| Class with sem : | M.A. English Sem-2 |
| Subject / Paper :- | English Fiction-I |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Introduction to the syllabus and examination scheme. |
| 27 Mar to 01 Apr | Introduction of the Socio-Political condition and Literary History of the 18th century. |
| 03 Apr to 8 Apr | Explanation of the Socio-Political Condition and Literary History of the English Fiction of the 18th Century and Explanation of Literary Terms. |
| 10 Apr to 15 Apr | Introduction to the writer Daniel Defoe and an overview of the novel Robinson Crusoe. Explanation of the novel. |
| 17 Apr to 22 Apr | Discussion on main ideas, themes and relevant topics related to the novel. Introduction to the writer Henry Fielding |
| 24 Apr to 29 Apr | An overview of the novel Joseph Andrews. Introduction of the character of the novel. Explanation of the novel. |
| 01 May to 06 May | Discussion on main ideas, themes and relevant topics related to the novel. Introduction to the writer Jane Austen |
| 08 May to 13 May | Introduction of the characters of the novel Pride and Prejudice. An overview of the novel. Explanation of the novel Pride and Prejudice. |

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|---|---|
| 15 May to 20 May | Discussion on the main themes, ideas and relevant questions related to the novel. Assignment work and Revision |
| 22 May to 27 May | Home Exam and Revision |
| 29 May Onwards | Doubt removal classes |

## Lesson Plan for PG First Year
## From 20th March Onwards

| | |
|---|---|
| Lecturer : | Mrs. Mamta |
| Class with sem : | M.A. Previous, sem (II) |
| Subject / Paper :- | Modern Indian Writing in English - II |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Introduction to the syllabus and the examination scheme. |
| 27 Mar to 01 Apr | Detailed study of the relevant sections from "A Concise History of Indian Literature in English by Arvind Krishna Mehrotra. |
| 03 Apr to 8 Apr | Discussion on Questions based on unit 1, Doubt class, revision and Test of Unit 1. |
| 10 Apr to 15 Apr | Introduction of the writer Arun Kolatkar Reading of the poem 'An old Bicycle Tyre' and "Murga". Discussion on questions. |
| 17 Apr to 22 Apr | Introduction of the writer 'Kamala Das. Reading of the poem 'The Looking Glass' and "Summer in Calcutta". |
| 24 Apr to 29 Apr | Discussion on questions based on the poems. Doubt class, Revision and Test of Unit II. |
| 01 May to 06 May | Introduction of the writer Amitav Ghosh. Detailed study of the novel 'The Shadow Lines'. Discussion on important themes and questions based on the novel. |
| 08 May to 13 May | Introduction of the writer Mahesh Dattani and detailed study of the novel 'Final Solutions'. |

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| 15 May to 20 May | Discussion on Important themes and Questions based on the novel. Doubt Class, Test of unit IV |
| 22 May to 27 May | Doubt classes, Revision and Test. |
| 29 May Onwards | Home Assignment, Revision and Test. |

Mainka

## Lesson Plan for PG First Year
## From 20th March Onwards

| | |
|---|---|
| Lecturer : | Ms. Riya Gupta |
| Class with sem : | M.A. Previous, Sem-II |
| Subject / Paper :- | English Poetry - II |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Introduction to the syllabus and the examination scheme. Introduction of Alexander Pope. |
| 27 Mar to 01 Apr | Reading of the poem 'The Rape of the Lock'. Discussion on questions. Introduction to the socio-Political and literary history of the English Poetry. |
| 03 Apr to 8 Apr | Introduction to the literary terms of English Poetry of the relevant period. |
| 10 Apr to 15 Apr | Introduction of the poet William Wordsworth. Reading of the poem 'Ode: Intimations of Immortality from recollections of early childhood. |
| 17 Apr to 22 Apr | Discussion on questions based on the poem. Introduction of the poet William Blake. |
| 24 Apr to 29 Apr | Reading of the Poems "London", "The little Black Boy", and "The Tyger" with critical analysis. |
| 01 May to 06 May | Introduction of the poet S.T. Coleridge. Reading of the poems "Kubla Khan" and "Frost at Midnight". Discussion on questions. |
| 08 May to 13 May | Introduction of the poet Percy Shelley. Reading of the poem "Ode to the West Wind" and "Adonais". Discussion on questions. |

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| 15 May to 20 May | Introduction of the writer "John Keats" Explanation of the poem "Ode on a Grecian Urn" and "Ode to a Nightingale" with critical analysis. |
| 22 May to 27 May | Discussion on questions based on the poems. Discusion on important themes. |
| 29 May Onwards | Doubt Removal Class, Revision Test. |

# Lesson Plan from 20-March-2023 to 27-May-2023
## PG - Final Year (ECONOMICS)

| | |
|---|---|
| Lecturer : | Dr. Renu |
| Class with sem : | M.A. Final IV semester. |
| Subject / Paper :- | Indian Economy II |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Sectoral Growth : Service Sector ; Growth and components of service sector in India, Foreign Trade in Services. |
| 27 Mar to 01 Apr | Sustainability of Services Led Growth, Need, Performance, and Govt. Strategy on Infrastructure Development. |
| 03 Apr to 8 Apr | Changes in Public Policy with the special reference to competition Policy. |
| 10 Apr to 15 Apr | Consumer Protection Act ; Structure of Financial System in India, Financial Sector Reforms. |
| 17 Apr to 22 Apr | Capital Market : Growth, Problems and Reforms, Trends in NPAs |
| 24 Apr to 29 Apr | Fiscal Responsible & Budget Management Act, 2003. Impact of Financial Sector on Indian Economy. |
| 01 May to 06 May | Fiscal Sector :- Centre - State Financial Relations ; Fiscal Reforms. |
| 08 May to 13 May | Finance Commission of India ; India's Fiscal Policy. FRBM Act, 2003. |

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| 15 May to 20 May | External Theory Sector :- Foreign Sector. Trade : Volume, Composition & direction. Trade Policy during Post Reform Period. |
| 22 May to 27 May | Problems of BOP, Growth of FDI, SEZs, India & WTO. |

Renu
24/5/2023

# Lesson Plan from 20-March-2023 to 27-May-2023
## PG - Final Year (ECONOMICS)

| | |
|---|---|
| Lecturer : | Dr. Renu |
| Class with sem : | M.A. Final, IV Semester. |
| Subject / Paper :- | Economic Environment of Business. |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Concept, Types : Cultural, Social & Political Environment of Business. |
| 27 Mar to 01 Apr | Technological, Economic & Legal Environment; Scanning Techniques of Forecasting, SWOT Analysis. |
| 03 Apr to 8 Apr | Internal Environment & their impact on Policy formulation, LPG model. |
| 10 Apr to 15 Apr | Impact of Liberalisation on diff. Sectors, Foreign Investment in India, MNCs in India. |
| 17 Apr to 22 Apr | MNCs - strategies, Competitive Strength, policies & performance. Industrial Policies. |
| 24 Apr to 29 Apr | Review of Industrial Policy since Independence, Fiscal Policy. |
| 01 May to 06 May | Monetary Policy :- Objectives, tools, and recent trends. |
| 08 May to 13 May | Role of Finance Commission, World Bank & its impact on Indian Economy |

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| 15 May to 20 May | IMF and India, WTO and its impact on India Economy. |
| 22 May to 27 May | Development of Banks and their role in Indian Industries, Consumer Protection Act. |

Rony
24/5/2023

Lesson Plan from 20-March-2023 to 27-May-2023
PG - Final Year (ECONOMICS)

| | |
|---|---|
| Lecturer : | Pinki |
| Class with sem : | M.A. Final IV Semester |
| Subject / Paper :- | Public Economics II |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Government in a mixed Economy, Public and Private goods, Public and Private sector and its characteristics. |
| 27 Mar to 01 Apr | Co-operation or Competition, Market failure and imperfections, Features of market failure. |
| 03 Apr to 8 Apr | Externalities of Public goods, Merits & Demerits of Public goods, Public Choice. |
| 10 Apr to 15 Apr | Private and Public mechanism for allocating resourse, Problems of Preference revelation. |
| 17 Apr to 22 Apr | Problems of Preference and aggregation Preferences, Voting system, Arrow's impossibility theorm. |
| 24 Apr to 29 Apr | Market Volountary Exchange models, Public Expenditure and its merits & demerits. |
| 01 May to 06 May | Second best theory of Public Expenditure, Causes of growth in Public Expend-iture. |
| 08 May to 13 May | Introduction of Budget, Planning and Programme budgeting, Zero Base budgeting, Poverty alleviation |

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| 15 May to 20 May | Incidence and effects of Public Exp-enditure, Provision of infrastruct-ural facilities, Property rights |
| 22 May to 27 May | Fiscal functions: An overview, Fiscal Federalism in India, Externalities: the Problems and its solution, Taxes Versus regulations |

Pinki
24/05/23

# Lesson Plan from 20-March-2023 to 27-May-2023
## PG - Final Year (ECONOMICS)

| | |
|---|---|
| Lecturer : | Ms. Neeya Parmar |
| Class with sem : | M.A Final year (IV sem) |
| Subject / Paper :- | Economics / Population Economics |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Population Structure and Characteristics: Impact of Population Growth on Age and Gender Structure. Ageing of Population. |
| 27 Mar to 01 Apr | Concept of Fertility Transition, Measurement of fertility and Fecundity Differentials in India, Mortality: Components and Measurement |
| 03 Apr to 8 Apr | Mortality Differentials in India: Rural-Urban, Age and Gender, Malthus, Marxian, Liebenstein, Becker Theories. |
| 10 Apr to 15 Apr | Demographic Transition Theory, Optimum Population theory |
| 17 Apr to 22 Apr | Population and Economic Development, Population as "Limits to Growth" and as Ultimate Source" |
| 24 Apr to 29 Apr | Migration: Concepts, Measurement, Migration Selectivity, Causes and Consequences of Migration, Migration in India: Causes and Trends |
| 01 May to 06 May | Migration Differentials in India: Rural-Urban, Male - Female, Theories |
| 08 May to 13 May | Estimation of Population in India: Census, Sampling Vita Registration Methods. |

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| 15 May to 20 May | Growth and structure on Indian Population since Independence, Population Policy in India since Independence. |
| 22 May to 27 May | The shift in policy from population control to family welfare & women empowerment, Tasks before the National Population Commission. |

Vijaya Parmar
24/05/23

## Lesson Plan from 20-March-2023 to 27-May-2023
## PG - Final Year (ECONOMICS)

| | |
|---|---|
| Lecturer : | Ms. Neerja Parmar |
| Class with sem : | M.A. final year (IV Sem) |
| Subject / Paper :- | Economics / Economy of Haryana. |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Economic Structure of Haryana, Agriculture in Haryana, Irrigation strategy & levels |
| 27 Mar to 01 Apr | Agricultural Diversification, Agricultural Marketing, Rural Credit and Rural Indebtedness |
| 03 Apr to 8 Apr | W.T.O. and Haryana Agriculture, Industry in Haryana: Pattern, Performance, Constraints and Challenges |
| 10 Apr to 15 Apr | Small Scale Industries: Role, Problems and future prospects, State and Industrial Development, Economies of Scale, |
| 17 Apr to 22 Apr | Industrial finance in Haryana, Infrastructure: Power Sector: Organizational Structure, Performance, Haryana Electricity Regulatory Commission, Pricing Policies & finances |
| 24 Apr to 29 Apr | Urban Infrastructure and Haryana Urban Development Authority, Rural Electrification, Transport Sector. |
| 01 May to 06 May | Sources of Revenue & Pattern of Expenditure Haryana's Development Experience.- |
| 08 May to 13 May | Haryana's Development Experience: Regional, Social and Gender Disparities (Continue) |

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| 15 May to 20 May | Critical assessment of State Development Policies. |
| 22 May to 27 May | Fiscal Management in Haryana - a critical Appraisal, Challenges and Perspectives on Inclusive Development of States. |

Nancy Parmar
24/05/23

## Lesson Plan for PG First Year
## From 20th March Onwards (ECONOMICS)

| | |
|---|---|
| Lecturer : | Ms. Neeja Parmar |
| Class with sem : | M.A. Economics (II Sem) |
| Subject / Paper :- | Economics / Microeconomics II |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Baumol's Sales Revenue Maximization Model, Williamson's model of Managerial discretion |
| 27 Mar to 01 Apr | Mawis model of Managerial Enterprise, Bain's Limit Pricing Theory. |
| 03 Apr to 8 Apr | Behavioral model of the firm (Cyert and March) Pricing of factor of Production (Perfect & Imperfect market) |
| 10 Apr to 15 Apr | Elasticity of Technical Substitution, Technical Progress and factor Shares. |
| 17 Apr to 22 Apr | Product Exhaustion Theorem, Macro Theories of Distribution : Ricardo, Marx. |
| 24 Apr to 29 Apr | Kalecki, Kaldor theories of Distribution, Concept, Stability, Existence and Uniqueness of Equilibrium. |
| 01 May to 06 May | Static and Dynamic Equilibrium, Partial and Dynamic Equilibrium, Walrasian approach to General Equilibrium |
| 08 May to 13 May | Pareto Efficiency and Optimality, Money in General Equilibrium |

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| 15 May to 20 May | Arrow – Debreu Economy – welfare criteria Compensation Criteria, Equity – Efficiency Trade off. |
| 22 May to 27 May | Perfect Competition and Economic Efficiency, First and Second Theorem of Welfare Economics |
| 29 May Onwards | Arrow's Impossibility Theorem, Bergson – Samuelson Maximization of Social Welfare function, Rawl's theory of justice. |

Dr. Dilip Parmar

## Lesson Plan for PG First Year
## From 20th March Onwards

| | |
|---|---|
| Lecturer : | Ms. Aastha Vats |
| Class with sem : | M.A. I, Sem. II |
| Subject / Paper :- | Macroeconomics II |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | International flow of Capital & Goods, Savings & Investment in small open economy, Exchange Rate : Real, Nominal. Mkts in Foreign Exchange. |
| 27 Mar to 01 Apr | Balance of Payments : Meaning, Current and Capital Account, BOP : Reasons of Disequilibrium and how to correct it. |
| 03 Apr to 8 Apr | Basics of IS-LM Model, Extension of IS-LM with Govt. Sector, labour market and Variable Price level. |
| 10 Apr to 15 Apr | Mundell Flemming Model under fixed Exchange Rate, Mundell Flemming Model Under Flexible Exchange Rate. |
| 17 Apr to 22 Apr | Absolute Income Hypothesis, Relative Income Hypothesis, Life Cycle Hypothesis. |
| 24 Apr to 29 Apr | Permanent Income Hypothesis, Consumption Under Uncertainity - Modern Approach. |
| 01 May to 06 May | Schumpeter Business Cycle Theory; Kaldor Business Cycle Theory, Business Cycle Theory of Samuelson. |
| 08 May to 13 May | Hicks Business Cycle Theory, Relative Efficacy of Monetary Policy and Fiscal Policy. |

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| 15 May to 20 May | Monetarism: Friedman's Theory, Recent Developments in Monetarism, Inter-Temporal Substitution in Labour Supply; |
| 22 May to 27 May | New Classical Macro Economics Theory: Rational Expectation (Lucas Theory) |
| 29 May Onwards | Real Business Cycle Theory, New Keynesian Economics :- Mankiw Model (Sticky Nominal Prices) |

Aastha Vats

## Lesson Plan for PG First Year
## From 20th March Onwards

| | |
|---|---|
| Lecturer : | Dr. Renu |
| Class with sem : | M.A. I, Sem. II |
| Subject / Paper :- | Statistics for Economists |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Definition of Statistics, Importance of Statistics, Role of Statistics in Decision Making, Limitations of Statistics. |
| 27 Mar to 01 Apr | Frequency Distribution, Presentation of Data, Mean : Merits, Demerits & Properties. |
| 03 Apr to 8 Apr | Median and Mode : Merits, Demerits and Properties and Numerical Problems. Census Vs Sample Enumeration, Probability & Non Prob Sampling. |
| 10 Apr to 15 Apr | Sampling Methods : Simple Random, Stratified Random, Sampling Error, Range, Quartile Deviation. |
| 17 Apr to 22 Apr | Variation and coefficient of Variation, Measures of Skewness, Measures of Kurtosis |
| 24 Apr to 29 Apr | Probability : Concepts and Definition, Laws of Addition and Multiplication. Probability Distribution. |
| 01 May to 06 May | Binomial, Poisson and Normal Dist$^n$ (Properties & Numerical Problems), Index, Numbers and Uses. |
| 08 May to 13 May | Laspeyres's, Paasche's ad Fisher, Base Shifting, Splicing, deflating of Index No., Cost of living index no. & Consumer Price Index. |

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| 15 May to 20 May | Components of time series and their decomposition, Methods of measuring trend, Methods of measuring Seasonal variation. |
| 22 May to 27 May | Correlation Analysis, Karl Pearson, Spearman's Rank correlation, Regression. |
| 29 May Onwards | Hypothesis Testing, Student t, test, Chi-square, F-test, ANOVA; |

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## Lesson Plan for PG First Year
## From 20th March Onwards

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|---|---|
| Lecturer : | Ms. Pinki |
| Class with sem : | M.A. ~~Ist~~ year IInd Sem |
| Subject / Paper :- | Money, Banking & finance |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Concept of money, Significance of money, Functions of money, Types of money |
| 27 Mar to 01 Apr | Theory of money, The Classical Quantity theory of money, Keynesian Approach and Friedman's theory |
| 03 Apr to 8 Apr | Money Creation By Banking system, High powered money, Credit multi-plier, Measures of money Sipply in india |
| 10 Apr to 15 Apr | The Expectations theory, Liquidity Preference theory, Liquidity Premium theory, |
| 17 Apr to 22 Apr | Market Segment theory, Preffered Habitant theory, Monetary policy - an introduction |
| 24 Apr to 29 Apr | Monetary policy: Targets, Goals and Trade of among Alternative Goals, Transmission Mechanism. |
| 01 May to 06 May | Transmission mechanism - Classical model Keynesian model and Monetarist model, Rule Vs. Discretion |
| 08 May to 13 May | Origin and Evolution, Functions and policy tools of Central Bank, Comm-ercial Banking in india Since Nationalization |

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|---|---|
| 15 May to 20 May | Banking sector Reforms, Monetary Policy, RBI – Monetary Policy, Functions of Commercial Banks |
| 22 May to 27 May | Structure of Financial System of India, Growth and Components of Capital market in India, Role of SEBI in India |
| 29 May Onwards | Capital Market reforms in India, Development of non – Banking Finincial intermediaries |

Pinki

## Lesson Plan for PG First Year
## From 20th March Onwards

| | |
|---|---|
| Lecturer : | Ms POOJA LAMBA |
| Class with sem : | M.A.I, Sem II |
| Subject / Paper :- | Communication Skills |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Introduce students with the nature and importance of communication. Impart knowledge of common courtesies and conversational practices. |
| 27 Mar to 01 Apr | Introduction to Human Communication - Unit I. Verbal and non verbal Communication Introduction ~~of~~ Barriers to communication. Seven Cs of effective Communication Preparing for CV/Resume |
| 03 Apr to 8 Apr | Introduce students to the common courtesies How to introduce oneself formally and informally. Introduction on social media. Asking for and giving permission, Art of small talk etc |
| 10 Apr to 15 Apr | Introduction to Unit II (Speaking skills) Public speaking: How to introduce oneself. Welcome and introductory speech. Vote of thanks speech. Farewell speech. Practice of various situations given |
| 17 Apr to 22 Apr | Conversational Practices in various situations: Exercise and practice: Quitting and finding jobs, Office Conversations, Conversations about school / College / University etc (dialogue - based conversations) |
| 24 Apr to 29 Apr | Introduction to Unit III How to develop one's personality: Personal grooming How to be assertive Significance and importance of critical thinking. How to build confidence |
| 01 May to 06 May | Practical demonstration of Group discussion How to open and summarise group discussion Tips for group discussion. Group discussion on various topics for exercise. |
| 08 May to 13 May | Introduction to writing Skills - Unit IV How to write an Emails: Composition etc. Students will be introduced to basic writing skills and tips to develop good writing style |

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| 15 May to 20 May | Introduced students with research articles and how to write research articles what is plagiarism and importance of writing skills. |
| 22 May to 27 May | Introduce students to Professional Presentation How to prepare PPT's and delivering presentation How to carry one self : Body language, Handling questions. |
| 29 May Onwards | Writing practice and speaking practice of all the four units. Students to practice conversational and dialogue based speaking skills. |

Pooja Lamba

Lesson Plan for PG First Year
From 20th March Onwards

M.Sc. (Maths)

| | |
|---|---|
| Lecturer : | SUNITA |
| Class with sem : | M.Sc-I Sem-II |
| Subject / Paper :- | Differential Equations and Calculus of Variations |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Initial value problem and equivalent integral eq. Lipschitz Conditions. Picard Fundamental existence and uniqueness theorem. Class Test. |
| 27 Mar to 01 Apr | Dependence of solutions on initial conditions and parameters. Solution of initial value problem by Picard method. Sturm-Liouville BVPs. Class Test. |
| 03 Apr to 8 Apr | Sturms Separation and comparison theorem. Lagrange's Identity and Green's formula for second order differential eqn Properties of eigenvalues and eigen funs. Prüffers transformation. |
| 10 Apr to 15 Apr | Adjoint systems. Self-adjoint eqn of second order. Linear systems. Matrix method for homogeneous first order system. method of variation of constants for a non-homogeneous system. |
| 17 Apr to 22 Apr | Non linear differential system. Plane autonomous systems and critical points. Classification of critical points - rotation points, foci, nodes Class Test. |
| 24 Apr to 29 Apr | Saddle points. Stability, Asymptotical stability and unstability of critical points. Almost linear systems. Class Test. |
| 01 May to 06 May | Liapunov fun. and Liapunov's method to determinestability for non-linear systems Periodic solutions and Floquet theory for period system. |
| 08 May to 13 May | Limit cycles, Bendixson non-existence theorem. Poincare-Bendixson theorem. Index of a critical point. Class Test. |

| | |
|---|---|
| 15 May to 20 May | Motivating problems of Calculus of Variation Shortest Distance · Minimum surface of Resolu Brachistochoren problem · Class Test. |
| 22 May to 27 May | Isoperimetric problem · Geodesic · Fundamental Lemma of Calculus of Variations · Euler eq^n for one dependent fun · and its generalization to h |
| 29 May Onwards | Complete Revision of the syllabus · Class Test. |

## Lesson Plan for PG First Year
## From 20th March Onwards

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|---|---|
| Lecturer : | Dr. ANJU RANI |
| Class with sem : | M.Sc. I ( 2nd Semester ) |
| Subject / Paper :- | Mathematics |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Introduction to Basic Related to Syllabus, Module, Sub module & Properties of Module, Cyclic modules, Simple and semi-simple module |
| 27 Mar to 01 Apr | Schur's lemma, Free modules, Fundamental & Structure theorem of Finitely generated modules over principal ideal domain and its applications |
| 03 Apr to 8 Apr | to Finitely generated abelian groups. Revision of Unit ① and Test |
| 10 Apr to 15 Apr | Neotherian and Artinian modules, ring with simple Properties, examples, Nil and Nilpotent ideals In Neotherian and Artinian ring, Hilbert Basis theorem. |
| 17 Apr to 22 Apr | Unit II Revision and Test, taking problems of Unit ① & ② UNIT — III |
| 24 Apr to 29 Apr | Algebraic Extension of a field: Extension of of a field, Degree of a field extension, Algebraic extension of a field. Roots of a polynomial in an extension field. |
| 01 May to 06 May | Algebraically closed field Splitting field, Root fields, splitting field or decomposition field, Theorems on decomposition field. |
| 08 May to 13 May | Revision of Unit I, II, III Test, Minor taking doubts. |

UNIT - IV

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|---|---|
| 15 May to 20 May | Normal and separable Extension of fields, Some theorems, Multiple roots, Separable and Inseparable Extension, theorems on separability Primitive element |
| 22 May to 27 May | Galois Theory - Introduction, properties, structure of multiplicative group of a finite field, Construction construction of subfields |
| 29 May Onwards | Taking doubts Unit (I) (II) (III) and (IV) Test |

# Lesson Plan for PG First Year
## From 20th March Onwards

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|---|---|
| Lecturer : | Dr. Deepa Saini |
| Class with sem : | M.Sc Maths 1st Year 2nd Sem |
| Subject / Paper :- | Programming in C (Th.) |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Problem Solving using Algorithms and Flowcharts |
| 27 Mar to 01 Apr | Basic Structure, Constants, Variables Rules for naming Variables, Data type |
| 03 Apr to 8 Apr | character input output, Formatted input and output, The gets() and puts() |
| 10 Apr to 15 Apr | Operators and Expressions, Types of operators. Arithmetic, Unary, Relational |
| 17 Apr to 22 Apr | Logical, Conditional Bitwise, Increment and Decrement. The Size of operator Precedence of operators. |
| 24 Apr to 29 Apr | Go to statement, If, If-else, Nested if statement, Conditional Expression Switch Loops, while, do-while loops |
| 01 May to 06 May | For loop, Nested for loops, Break and Continue statement. |
| 08 May to 13 May | 1-D and 2-D Arrays, Passing Array to function, Multidimensional Array, String Function. |

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| 15 May to 20 May | Basics of pointers, Pointer Arithmetic, Pointer subtraction and Comparsion Null pointer, Pointer and string, Array of pointer |
| 22 May to 27 May | Basic of Structure, Array of Structure Pointer to Structure, Union. Function Prototype Passing Parameter call by value and call by reference |
| 29 May Onwards | Recursion, opening and closing files I/o operations on Files, Predefined Streams, Error handling I/o operations. |

# Lesson Plan for PG First Year
## From 20th March Onwards

| | |
|---|---|
| Lecturer : | Dr. Deepu Saini |
| Class with sem : | M.Sc Maths 1st Year 2nd sem |
| Subject / Paper :- | Programming in C (Pr.) |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Program in C to find magnitude of a vector. |
| 27 Mar to 01 Apr | Compute GCD and LCM of two positive integer values using recursion |
| 03 Apr to 8 Apr | Calculate the Eigen Values and Eigen Vector of a symmetric matrix of order three. |
| 10 Apr to 15 Apr | Program to find largest / smallest of three numbers. |
| 17 Apr to 22 Apr | Demonstrates the use of Euler and Runge - Kutta methods for solving IVP of ODEs. |
| 24 Apr to 29 Apr | C Program to evaluate the given polynomial equation by the method Statistical |
| 01 May to 06 May | Program to Compute Sin X and Cos X using series and Check for error in Verifying $\sin^2 x + \cos^2 x = 1$ |
| 08 May to 13 May | To find the inverse of a given non-singular square matrix. |

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| 15 May to 20 May | To find the inverse of a given non-singular square matrix. |
| 22 May to 27 May | To find Complex roots of a Quadratic Equation. |
| 29 May Onwards | Program to sort ten numbers in increasing and decreasing order. |

## Lesson Plan for PG First Year
## From 20th March Onwards

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|---|---|
| Lecturer : | Meenakshi |
| Class with sem : | M.Sc. Math (2nd Sem.) |
| Subject / Paper :- | Communicative Skill (English) |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Introduction to the Syllabus and exam pattern Detailed Discussion of communication and Barriers of Communication, 7C's of Communication Guidlines for interviews. |
| 27 Mar to 01 Apr | Introduction to How to write CV/ Biodata Group Discussion, Detailed discussion of Public Speaking and Mass Communication. |
| 03 Apr to 8 Apr | Introduction to Comman Courtesies, Practice of introducing oneself on Social Media, Make Familiar with Speaking Strategies, Making Enquiries Recommendation and Rejections. |
| 10 Apr to 15 Apr | Conversational Practice in various Situations: meeting, parting, asking / talking about daily activities. Introduction to Being Diplomatic and clarifications. |
| 17 Apr to 22 Apr | Assignment task is given regarding dialogue-based conversation. Introduction to the Personality Development Skill |
| 24 Apr to 29 Apr | Major points discussion of Personal Grooming. Define Assertiveness. Making students Aware of Improving Self-Esteem. |
| 01 May to 06 May | Introduction to significance of Critical Thinking. How to build critical thinking in a fruitful way. Introduce Confidence Building |
| 08 May to 13 May | Detailed Discussion of Confidence Building Introduction to SWOC analysis and its importance in Relevant Situation. Taking up queries. |

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| 15 May to 20 May | Introduction to Emotional Intelligence: Recognizing and managing Emotions and Situations. Introduce Stress and Anger. |
| 22 May to 27 May | Detailed Discussion of Stress and Anger Management. Its types and How to Control Stress and Anger. |
| 29 May Onwards | Introduction to the Positive Thinking. Major Points Discussion. Developing Sense of Humour. Detailed Discussion of the topic. Doubt clearing Session. |

Meenakshi
(Asstt Prof of English)

# Lesson Plan for PG First Year
## From 20th March Onwards

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|---|---|
| Lecturer : | Dibti |
| Class with sem : | IInd Sem |
| Subject / Paper :- | Complex Analysis |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Introduction of Complex Numbers - function of a complex variable. Continuity, differentiability Analytic functions and their properties. |
| 27 Mar to 01 Apr | Cauchy - Riemann equations in Cartesian and polar Co-ordinates, Harmonic function Concept of Stereographic projection. |
| 03 Apr to 8 Apr | Power Series, Radius of convergence, Differentiability of sum function of a power Series. Branches of logrithm. |
| 10 Apr to 15 Apr | Introduction of Path, Region, Contour, Simply and multiply Connected regions, Complex Integration. Cauchy theorem. |
| 17 Apr to 22 Apr | Cauchy's Integral formula, Poisson's Integral formula Complex Integral as a function of its upper limit, |
| 24 Apr to 29 Apr | Morera's theorem, Cauchy inequality, Liouville's theorem. The fundamental the$^{n}$. of Algebra. |
| 01 May to 06 May | Zeroes of an analytic function, Laurent's Series, Singularities, Casorati-Weierstrass theorem. Limit pt. of Zeros and Poles |
| 08 May to 13 May | Maximum and Minimum Modulus Principle. Schwarz Lemma, Meromorphic functions Residues, Cauchy's residue theorem. |

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| 15 May to 20 May | Evaluation of improper Integrals. The argument principle, Rouche's theorem, Inverse fun. theorem, Bilinear Transformation their properties and classifications. |
| 22 May to 27 May | Definitions and examples of Conformal mappings, Space of analytic functions and their Completeness. Test of Unit-1 |
| 29 May Onwards | Riemann mapping theorem. Test of Unit-2 |

## Lesson Plan for PG First Year
## From 20th March Onwards

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|---|---|
| Lecturer : | DR. SUMAN TANWAR |
| Class with sem : | M A ECO IInd Sem |
| Subject / Paper :- | Yoga, Health & Nutrition - 18.MPE - 100 (THEORY) |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Introducation about different body system<br>Meaning definition dimension and determinants of health. Role of Phy activities in maintaining health |
| 27 Mar to 01 Apr | Health Problem in India effect of alcohal tobacco and drugs on health<br>Preventive strategies for obesity, hypertension, Coronary heart disease, diabetes. |
| 03 Apr to 8 Apr | Osteoporosis in relation to Physical activities and lifelong wellness<br>Communicable disease their Prevention & control |
| 10 Apr to 15 Apr | Meaning & definition of food & nutrition<br>Role of Nutrition in day to day life<br>Basic Nutrition guideline |
| 17 Apr to 22 Apr | Concept of balanced diet calorie values of food. comparison of food values |
| 24 Apr to 29 Apr | Role of diet in weight management<br>Concept of BMI<br>Diet Prescription for various age groups |
| 01 May to 06 May | Introducation of Yoga: Meaning definition and classification of Yoga |
| 08 May to 13 May | Ashtanga Yoga, Yama, Niyama, Asana Pranayama, Prathyahara Dharana Dhyana and Samadhi. |

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| 15 May to 20 May | Yoga Practice, Place Time clothes, Bathing Diet before and after yoga Surya Namaskar. Methods and Benefits |
| 22 May to 27 May | Introduction - Kriyas, Bandhas and Mudras - Techniques and benefits |
| 29 May Onwards | Effect of Yoga on human body - Physiological and Role of yoga in Mental, Nervous Respiratory system Meditation Effect of Yoga |

## Lesson Plan for PG First Year
## From 20th March Onwards

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|---|---|
| Lecturer : | DR. SUMAN TANWAR |
| Class with sem : | M.A ECO |
| Subject / Paper :- | Yoga, Health & Nutrition (Practical) 18-M PE |

| Week | Topics |
|---|---|
| 20 Mar to 25 Mar | Introduction of Asan, Benefits Shirsh Asan, Vakra Asana, Practised in class |
| 27 Mar to 01 Apr | Introduction of Surya Namaskar. Padma Asana, Practised in class |
| 03 Apr to 8 Apr | Tell about Bhajangasan, Benefits Practised in class with students |
| 10 Apr to 15 Apr | Introduction. Pravatas Asan with Benefits Practised in class students. |
| 17 Apr to 22 Apr | Introduction of Vriksh Asana Benifits, Practised in class Students. |
| 24 Apr to 29 Apr | Introduction Tad Asan, Practised in class with benefits. |
| 01 May to 06 May | Introduction of Pranayama, Meaning of Pranayama, Benefits, Practised |
| 08 May to 13 May | Introduction of Anulom-Vilome. Benifits Anulom Vilome, Practised in class. |

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| 15 May to 20 May | Introduction Sarvang Asana. Benifits Sarvang Asana Practised in students |
| 22 May to 27 May | Introduction Sitali Pranayama Benifits. Practised in class students Kapalbhati, Bhramari |
| 29 May Onwards | Revision about all Yoga Asana, Surya Namaskar and its benefits. |

DR SUMAN TANWAR

SumRajput