# Lesson Plan
# Session 2023-24
# Even Semester
# (1st January-30th April)

# Department of Arts

# Hindi Department

1 जनवरी से 7 जनवरी — द्वितीय सेमेस्टर के पाठ्यक्रम से विद्यार्थियों को अवगत किया एवं पाठ्यपुस्तक में संकलित जयशंकर प्रसाद का सामान्य परिचय एवं नाटक पर चर्चा।

4 जनवरी से 15 जनवरी — ध्रुवस्वामिनी नाटक के प्रथम अध्याय का पठन-पाठन एवं सामान्य चर्चा प्रश्नोत्तर सहित

16 जनवरी से 22 जनवरी — जयशंकर प्रसाद कृत ध्रुवस्वामिनी नाटक के द्वितीय अंक का पठन-पाठन एवं महत्वपूर्ण गद्यांशों की सप्रसंग व्याख्या एवं प्रश्नोत्तरों पर चर्चा।

23 से 31 जनवरी — जयशंकर प्रसाद कृत ध्रुवस्वामिनी नाटक के तृतीय अंक का पठन-पाठन एवं महत्वपूर्ण गद्यांशों की सप्रसंग व्याख्या, प्रश्नोत्तर पर चर्चा

1 फरवरी से 7 फरवरी — ध्रुवस्वामिनी नाटक की कथानक एवं रंगमंच की दृष्टि से समीक्षा एवं रंगमंच की दृष्टि से सफलता और असफलता सिद्ध कीजिए।

8 फरवरी से 15 फरवरी → ध्रुवस्वामिनी एक समस्या प्रधान नाटक है सिद्ध कीजिए एवं नाटक की ऐतिहासिकता पर विचार-विमर्श

देशकाल व वातावरण की दृष्टि से ध्रुवस्वामिनी नाटक की समीक्षा एवं संवाद योजना।

16 फरवरी से 22 फरवरी — ध्रुवस्वामिनी नाटक के अंतर्गत चंद्रगुप्त, रामगुप्त, शिखरस्वामी, शंकरण का चरित्र-चित्रण एवं ध्रुवस्वामिनी कोमा, मन्दाकिनी नारी पात्रों का चरित्र-चित्रण

ध्रुवस्वामिनी नाटक के माध्यम से आज के
युग की नारी समस्याओं को उजागर किया
गया है स्पष्ट कीजिए।

ध्रुवस्वामिनी नाटक पर पूर्णतः चर्चा एवं मासिक
परीक्षा एवं Assignment

1. मार्च से 7 मार्च → हिन्दी साहित्य के इतिहास का सामान्य-परिचय
एवं काल विभाजन पर विभिन्न विद्वानों का मत
एवं साहित्य इतिहास लेखन परम्परा पर चर्चा।

8 मार्च से 15 मार्च – भक्तिकाल का परिचय एवं प्रवृतियां एवं परिस्थितियों
के साथ भक्तिकाल को स्वर्णकाल के रूप में व
भक्तिकाल का समग्र विश्लेषण।

16 मार्च से 23 मार्च – संतकाव्य एवं सूफी काव्यधारा का परिचय एवं
प्रवृतियों पर चर्चा।

24 मार्च से 31 मार्च (होली अवकाश)

1 अप्रैल से 7 अप्रैल – सगुण काव्य के अंतर्गत रामकाव्य एवं कृष्णकाव्यधारा
का सामान्य परिचय एवं प्रवृतियाँ।

8 अप्रैल से 15 अप्रैल – व्यावहारिक हिन्दी का सामान्य-परिचय एवं उपयोगिता
भाषा की परिभाषा एवं विविध रूप व मानक भाषा
की प्रमुख प्रवृतियाँ।

16 अप्रैल से 22 अप्रैल – हिंदी वर्णमाला, स्वर, व्यंजन एवं वर्तनी समस्या एवं समाधान

23 अप्रैल से 30 अप्रैल → मुहावरे, लोकोक्तियों पर विचार-विमर्श एवं सम्पूर्ण
पाठ्यक्रम पर विद्यार्थियों के साथ चर्चा, समस्या एवं
समाधान।

मासिक परीक्षा एवं Assignment

Babik ........

**1 जनवरी से 7 जनवरी –** हिंदी साहित्य विभाजन पर चर्चा एवं हिंदी गद्य का विकास विभिन्न विधाएँ। हिन्दी गद्य का आधुनिक काल में महत्त्व एवं हिंदी साहित्य के नव्यत्तर विद्याओं पर चर्चा।

**8 जनवरी से 15 जनवरी –** हिंदी गद्य में बालमुकुन्द गुप्त का स्थान, नव्यत्तर गद्य गौरव में संकलित "आशा का अंत" निबंध की व्याख्या, प्रश्नोत्तर का अध्यापन एवं विवेचन, विश्लेषण

**16 जनवरी से 22 जनवरी –** हिन्दी गद्य में आचार्य रामचन्द्र शुक्ल का स्थान एवं नव्यत्तर गद्य गौरव में संकलित "उत्साह" निबंध की व्याख्या, प्रश्नोत्तर का अध्यापन एवं विवेचन – विश्लेषण

**23 जनवरी से 31 जनवरी –** हिंदी गद्य में महादेवी वर्मा का स्थान एवं "नव्यत्तर गद्य गौरव" में संकलित "गिल्लू" संस्मरण की व्याख्या, प्रश्नोत्तर का अध्यापन एवं विवेचन – विश्लेषण।

**1 फरवरी से 7 फरवरी –** हिंदी गद्य में आचार्य हजारी प्रसाद द्विवेदी का स्थान एवं नव्यत्तर गद्य गौरव में संकलित "देवदारु" निबंध की व्याख्या एवं प्रश्नोत्तर का विवेचन – विश्लेषण।

मासिक परीक्षा एवं Assignment

**8 फरवरी से 15 फरवरी –** हिंदी गद्य में विद्यानिवास मिश्र का स्थान एवं साहित्यिक परिचय नव्यत्तर गद्य गौरव में संकलित मेरे राम का मुकुट भीग रहा है निबंध की व्याख्या एवं प्रश्नोत्तर का विवेचन – विश्लेषण।

16 फरवरी से 22 फरवरी — हिंदी गद्य में हरिशंकर परसाई का स्थान, साहित्यिक परिचय एवं नव्यत्तर गद्य गौरव में संकलित निबंध "सदाचार का ताबीज" की व्याख्या, प्रश्नोत्तर का अध्यापन, विवेचन एवं विश्लेषण।

23 फरवरी से 29 फरवरी — हिंदी गद्य में राहुल सांकृत्यायन का स्थान, साहित्यिक परिचय एवं नव्यत्तर गद्य गौरव में संकलित तिब्बत के पथ पर यात्रावृतांत की व्याख्या, प्रश्नोत्तर का अध्यापन, विवेचन एवं विश्लेषण।

1 मार्च से 7 मार्च — हरियाणवी भाषा का उद्भव, विकास, बोलियों एवं हरियाणवी सांग परंपरा का परिचय और सांग लेखकों का सामान्य परिचय का विश्लेषण

8 मार्च से 15 मार्च — हरियाणवी भाषा के आधुनिक गद्य पर चर्चा एवं हरियाणवी कविता का परिचय, प्रवृत्तियाँ एवं कवियों का संक्षिप्त परिचय।

मासिक परीक्षा एवं Assignment

16 मार्च से 23 मार्च — हरियाणवी साहित्य में गद्य साहित्य :- उपन्यास कहानी, नाटक का उद्भव एवं विकास एवं गद्यकारों का संक्षिप्त परिचय।

24 मार्च से 31 मार्च (होली-अवकाश)

1 अप्रैल से 7 अप्रैल :- प्रयोजनमूलक हिन्दी का स्वरूप, परिभाषा, महत्त्व, एवं उपयोगिता। पत्रकारिता की परिभाषा, अर्थ, स्वरूप एवं प्रकारों का विवेचन एवं विश्लेषण

8 अप्रैल से 15 अप्रैल :- पत्रकारिता के अंतर्गत शीर्षक की संरचना, प्रकार,

16अप्रैलसे — सम्पादक के गुण और दायित्व का विवेचन-विश्लेषण।
२२अप्रैल — फीचर लेखन का गुणों एवं प्रकारों की विवेचना।

स्वतंत्र प्रैस की अवधारणा एवं वस्तुनिष्ठ प्रश्नोत्तर पर चर्चा।

२३अप्रैल से ३० → सम्पूर्ण पाठ्यक्रम का विवेचन-विश्लेषण एवं
अप्रैल → विद्यार्थियों की समस्या और समाधान।

विभागाध्यक्ष

Babita
Savita

# Department of Science

**Lesson plan B. Sc. 1st (Organic Chemistry)**          **Session: 2023-2024**

**Semester:  2nd**                                        **Mrs. Manisha Hooda**

| Week/Month | Name of Topics |
|---|---|
| Feb./Week 1 | Nomenclature of alkenes, mechanisms of dehydration of alcohols and dehydrohalogenation of alkyl halide. The Saytzeff rule, Hofmann elimination, physical properties and relative stabilities of alkenes |
| Feb /Week 2 | . mechanisms involved in⸺Chemical reactions of alkenes hydrogenation, electrophilic and free radical additions, Markownikoff's rule, hydroboration–oxidation, |
| Feb /Week 3 | oxymercurationreduction, ozonolysis, hydration, hydroxylation and oxidation with KMnO4 . Nomenclature of benzene derivatives: Aromatic nucleus and side chain. Aromaticity: the Huckel rule, |
| Feb /Week 4 | aromatic ions, annulenes up to 10 carbon atoms, aromatic, anti-aromatic and non-aromatic compounds.general pattern of the⸺Aromatic electrophilic substitution  mechanism, mechansim of nitration, halogenation, sulphonation,. |
|  | **Revision and Class tests.** |
| March<br><br>Week 1 |  Friedel-Crafts reaction. Energy profile diagrams. Activating , deactivating substituents and orientation. |
| March<br><br>Week 2 | Nomenclature and classification of dienes: isolated, conjugated and ⸺cumulated dienes. Structure of butadiene. Chemical reactions  1,2 and 1,4 additions (Electrophilic & free radical mechanism), |
| March<br><br>Week 3 | Diels-Alder reaction, Nomenclature, structure and bonding in alkynes. Methods of formation. Chemical reactions of alkynes, acidity of alkynes. Mechanism of electrophilic and nucleophilic addition reactions, hydroboration-oxidation of alkynes. |
| March<br><br>Week 4 | Nomenclature and classes of alkyl halides, methods of formation, chemical reactions. |
| April/ Week 1 | Mechanisms and stereochemistry of nucleophilic substitution reactions of alkyl halides, S N2 and S N1 reactions with energy profile diagrams. Methods of formation and reactions of a ryl halides |
| April/ Week 2 | , The additionelimination and the elimination-addition mechanisms of nucleophilic aromatic substitution reactions. Relative reactivities of alkyl halides vs allyl, vinyl and aryl halides. |
| April/ Week 3 | **Revision and Class tests.** |

| Lesson plan B. Sc. 2nd (Physical Chemistry) | Session: 2023-2024 |
|---|---|
| **Semester: 4th** | **Dr. Naseeb Singh** |

| Week/Month | Name of Topics |
|---|---|
| Feb./ Week 1 | Second law of thermodynamics, need for the law, different statements of the law, Carnot's cycle s and its efficiency, |
| Feb./ Week 2 | Carnot' s theorm, Thermodynamics scale of temperature. Concept of entropy– entropy as a state function, entropy as a function of V & T,entropy as a funct ion of P & T. |
| Feb./ Week 3 | Entropy change in physical change, entropy as a criteria of spontaneity and equilibrium. Third law of thermodynamic s: Nerns t heat theorem, statement of concept of residual entropy, |
| Feb./ Week 4 | evaluation of absolute entropy from heat capacity data. Gibbs function (G) and Helmholtz function (A) thermodynamic quantities, G as criteria for thermodynami c equilibrium and spontaneity, its advantage over entropy change. Variation of G with P, V and T. |
|  | **Revision and Class tests.** |
| March Week 1 | Electrolytic and Ga lvanic cells – reversible & irrevers ible cells, conventional representation of electrochemical cells. Calculation of thermodynamic quantit ies of cell reaction ($\blacktriangle$G, $\blacktriangle$H & K). |
| March Week 2 | Types of reversible electrodes – metal- metal ion, gas electrode, metal –insoluble salt- anion and redox electrodes. |
| March Week 3 | Electrode reactions, Nernst equations, derivation of cell EMF and single electrode potential. Standard Hydrogen ele ctrode, reference electrodes, |
| March Week 4 | standard electrode potential, sign conventions, Concentration cells with and without transfe rence, liquid junction potential and its measurement |
| April Week 1 | Applications of EMF measurement in solubility product and potentiometric titrat ions using glas s electrode. More stress on numerical problems. |

# Lesson Plan of Session 2023-24 (January 2024-Even Sem)
## BA/B.Sc-Mathematics

Name of Assistant/Associate Professor:- Mr N.N. YADAV
Class & Section:-               BA/B.Sc  I Mathematics (2nd Semester)
Subject:-                       BHM123/12BSM123::Vector Calculus (3rd Paper )
                                (Theory-26, Internal-7/ Theory-40, Internal-10)
Lesson Plan duration :-         1st  January, 2024 to 30th April, 2024

| | Month: January |
|---|---|
| Week 1 | **Unit I**: Vector Product-Definition of Vector, Results on Vectors, Scalar and Vector Product of three Vectors, Product of four Vectors |
| Week 2 | Reciprocal Vectors, Scalar Valued Point Functions |
| Week 3 | Vector Valued Point Functions –Examples |
| Week 4 | Vector Differentiation, Derivative along a Curve, Directional Derivatives —Examples |
| | Month: February |
| Week 1 | **Unit II**: Gradient of a Scalar Point Function, Geometrical Interpretation of Gradient –Examples |
| Week 2 | Divergence and Curl of Vector Point Function, Characters of Divergence and Curl  as Point Function |
| Week 3 | Gradient, Divergence and Curl of Sums and Product and their Related Vector Identities. |
| Week 4 | Laplacian Operator with Examples |
| | Month: March |
| Week 1 | **Unit III**: Orthogonal Curvilinear Coordinates Conditions for Orthogonality Fundamental triad of Mutually Orthogonal Unit Vectors |
| Week 2 | Gradient, Divergence, Curl and Laplacian Operators in terms of Orthogonal Curvilinear Coordinates –Examples |
| Week 3 | Cylindrical Co-ordinates and Spherical Co-ordinates-Examples |
| Week 4 | **Holi Break** |
| | Month: April |
| Week 1 | **Unit IV**: Vector Integration –Examples |
| Week 2 | Line Integral, Surface Integral, Volume Integral-Examples |
| Week 3 | Theorems of Gauss, Green & Stokes and Problems based on these Theorems |
| Week 4 | *Revision, Test and Assignments |

Name of Assistant/Associate Professor:- Dr Shilpi

Class & Section:-         BA/B.Sc II Mathematics Semester-4
Subject:-                Programing in C and Numerical Methods
                              ( 3rd Paper )
                              (Theory-20, Practical-13/ Theory-30, Practical-20)
Lesson Plan duration :-     1st  January, 2024 to 30th April, 2024

| Week/ Month | Name of Topics |
|---|---|
| **January** | |
| 1 Week of January | Programmer's Model of a Computer, Algorithms, |
| 2 Week of January | Flow Charts, Data Types |
| 3 Week of January | Operators and Expressions, |
| 4 Week of January | Input / Outputs Functions |
| **February** | |
| 1 Week of February | Decisions Control Structure: Decision Statements, |
| 2 Week of February | Logical and Conditional Statements, Implementation of Loops, |
| 3 Week of February | Switch Statement & Case Control Structures. Functions, Preprocessors and Arrays. |
| 4 Week of February | Strings: Character Data Type, Standard String Handling Functions, |
| **March** | |
| 1 Week of March | Arithmetic Operations on Characters. Structures: Definition, using Structures, use of Structures in Arrays and Arrays in Structures. |
| 2 Week of March | Pointers: Pointers Data type, Pointers and Arrays, Pointers and Functions. Solution of Algebraic and Transcendental equations: Bisection Method, Regula-Falsi Method, |
| 3 Week of March | Secant Method, Newton-Raphson's Method. Newton's Iterative Method for Finding Pth Root of a Number, Order of Convergence of above Methods. |
| 4 Week of March | **Holi Break** |
| **April** | |
| 1  Week of April | Simultaneous Linear Algebraic Equations: Gauss-Elimination Method, |
| 2  Week of April | Gauss-Jordan Method, Triangularization Method (LU Decomposition Method). |
| 3 Week of April | Crout's Method, Cholesky Decomposition Method. |
| 4 Week of April | Iterative Method, Jacobi's Method, Gauss-Seidal's Method, Relaxation Method. |

# B.Sc. (Hons) Mathematics

Name of Assistant Professor:-    Ms PRIYANKA
Class:-                          B.Sc (Honours) Mathematics (4th Semester)
Subject:-                        BHM244:: Hydrostatics (Paper-IV)
                                 (Theory Marks-60,  Internal-15)

| Month : January | Topic Covered |
|---|---|
| Week 1 | **Unit I:** Pressure Equation. Condition of Equilibrium. |
| Week 2 | Lines of Force. Homogeneous and Heterogeneous Fluids. |
| Week 3 | Elastic Fluids. Surface of Equal Pressure. |
| Week 4 | Fluid at Rest under Action of Gravity. Rotating Fluids. |
| **Month : February** | **Topic Covered** |
| Week 1 | **Unit II:** Fluid Pressure on Plane Surfaces. |
| Week 2 | Centre of Pressure. Resultant Pressure on Curved Surfaces. |
| Week 3 | Equilibrium of Floating Bodies. Curves of Buoyancy. Surface of Buoyancy. |
| Week 4 | *Test and Assignment |
| **Month : March** | **Topic Covered** |
| Week 1 | **Unit-III :** Stability of Equilibrium of Floating Bodies |
| Week 2 | Metacentre with Examples |
| Week 3 | Work Done in Producing a Displacement. Vessels Containing Liquid. |
| Week 4 | Holi Break |
| **Month : April** | **Topic Covered** |
| Week 1 | **Unit IV:** Gas Laws. Mixture of Gases. |
| Week 2 | Internal Energy. Adiabatic Expansion. Work Done in Compressing a Gas. |
| Week 3 | Isothermal Atmosphere. Connective Equilibrium. |
| Week 4 | *Revision, Test and Assignments |

Name of Assistant/Associate Professor:      Dr SHILPI
Class & Section:-                     B.Sc (Honours) Mathematics (6th Semester)
Subject:                             BHM365:: Fluid Dynamics (5th Paper )
                                     (Theory Marks-60, Internal-15)

| Month: January | |
|---|---|
| Week 1 | **Unit I:** Kinematics - Eulerian and Lagrangian Methods. Stream Lines, Path Lines and Streak Lines. |
| Week 2 | Velocity Potential. Irrotational and Rotational Motions. Vortex Lines. |
| Week 3 | Equation of Continuity. Boundary Surfaces. |
| Week 4 | *Test and Assignment |
| **Month: February** | |
| Week 1 | **Unit II:** Acceleration at a Point of a Fluid. Components of Acceleration in Cylindrical and Spherical Polar Co-Ordinates, |
| Week 2 | Pressure at a Point of a Moving Fluid. Euler's and Lagrange's Equations of Motion. |
| Week 3 | Bernoulli's Equation. Impulsive Motion. Stream Function. |
| Week 4 | *Test and Assignment |
| **Month: March** | |
| Week 1 | **Unit III:** Acyclic and Cyclic Irrotation Motions. Kinetic Energy of Irrotational Flow. Kelvin's Minimum Energy Theorem. Axially Symmetric Flows. |
| Week 2 | Liquid Streaming Past a Fixed Sphere. Motion of a Sphere Through a Liquid at Rest at Infinity. Equation of Motion of a Sphere. |
| Week 3 | Three-Dimensional Sources, Sinks, Doublets and Their Images. Stoke's Stream Function. |
| Week 4 | Holi Break |
| **Month: April** | |
| Week 1 | **Unit IV:** Irrotational Motion in Two-Dimensions. Complex Velocity Potential. Milne-Thomson Circle Theorem. |
| Week 2 | Two-Dimensional Sources, Sinks, Doublets and Their Images. Blasius Theorem. |
| Week 3 | Two-Dimensional Irrotation Motion Produced by Motion of Circular and Co- Axial Cylinders in an Infinite Mass of Liquid. |
| Week 4 | *Revision, Test and Assignments |

Name of Assistant/Associate Professor:-     Dr SUDESH KUMARI
Class & Section:-                    BCA  I  Mathematics (2nd Semester)
Subject:-                            Mathematical Foundations of Computer
                                    Science  (Theory Marks-80, Internal-20)

| January | |
|---|---|
| Week 1 | **Unit I:** Basic Statistics: Measure of Central Tendency-Mean, Median, Mode, Geometric Mean-Examples |
| Week 2 | Measure of Dispersion- Range, Variance and Standard Deviations-Examples |
| Week 3 | Range, Variance and Standard Deviations-Examples |
| Week 4 | Preparing Frequency Distribution Table, Definition-Class Intervals and Class Limits-Examples |
| **February** | |
| Week 1 | Correlation and Regression-Definitions, Types and Examples |
| Week 2 | **Unit II:** Algorithm: Algorithms, Merits and Demerits, Exponentiation, How to compute Fast Exponentiation. Linear Search, Binary Search, "Big Oh" Notation, Worst Case |
| Week 3 | Advantage of Logarithmic Algorithms over Linear Algorithms, Complexity-Examples, Graph Theory-Graphs, Types of Graphs, Degree of Vertex, Sub Graph |
| Week 4 | Isomorphic and Homeomorphic Graphs, Adjacent and Incidence Matrices-Examples, Path Circuit- Eulerian, Hamiltonian Path Circuit-Examples |
| **March** | |
| Week 1 | **Unit III:** Tree-Trees, Minimum Distance Trees, Minimum Weight and Minimum Distance, Spanning Trees |
| Week 2 | Recursion- Recursively Defined Function, |
| Week 3 | Merge sort, Insertion sort, Bubble Sort, and Decimal to Binary-Examples, |
| Week 4 | Holi Break |
| **April** | |
| Week1 | **Unit IV:** Recurrence Relations- LHRR, LHRRWCCs, DCRR. Recursive Procedures |
| Week 2 | Number Theory- Principle of Mathematical Induction, GCD, Euclidean Algorithm, Fibonacci Numbers, |
| Week3 | Congruences and Equivalence Relations, Public Key Encryption Schemes. |
| Week4 | *Revision and Assignments |

Name of Assistant/Associate Professor:- Dr JAIVEER
Class & Section:- B.Com I Mathematics (2nd Semester)
Subject (Theory Marks-80, Internal-20):- Business Mathematics-II

| January | |
|---|---|
| Week 1 | **Unit I:** Matrices and Determinants: Definition of a Matrix ; Types of Matrices, |
| Week 2 | Algebra of Matrices; Calculation of Values of Determinants up to Third Order, Adjoint of a Matrix, Elementary Row and Column Operations |
| Week 3 | Finding Inverse Matrix through Adjoint and Elementary Row or Column Operations |
| Week 4 | Solution of a System of Linear Equations having Unique Solution and Involving not more than Three Variables |
| February | |
| Week 1 | **Unit II:** Differentiation (only algebraic problem), First Principle, Differentiation of Product and Quotient of Two Functions, |
| Week 2 | Chain Rule, Differentiation of Logarithmic and Exponential Functions, |
| Week 3 | Differentiation of Implicit Functions, Logarithmic Differentiation, |
| Week 4 | Differentiation in Case of Parametric Functions, Application of differentiation |
| March | |
| Week 1 | **Unit III:** Compound Interest and Annuities: Certain Different Types of Interest Rate, |
| Week 2 | Concept of Present Value and Amount of a Sum, Types of Annuities, Present Value and Amount of an Annuity, |
| Week 3 | Including the Case of Continuous Compounding |
| Week 4 | **Holi Break** |
| April | |
| Week1 | **Unit IV:** Ratio: Introduction, Comparison, Composition-Examples, |
| Week 2 | Proportion, Proporties of Proportion, Percentage with Examples, |
| Week3 | Profit and Loss, Profit and Loss Percentage, Examples |
| Week4 | *Revision and Assignments |

# Commerce Department

# Lesson Plan Session 2023-24

Class: -B.com 1st
Semester: - 2nd

Subject: Business Management
Teacher: - Mrs. Ritu Solanki

| Month:- January | Topic covered |
|---|---|
| Week 1 | Unit -1 Staffing -Concept and Scope |
| Week 2 | Recruitment -Meaning and Sources |
| Week 3 | Selection : Meaning and Process |
| Week 4 | Training : Importance and Methods ,Oral Test , Problem Solving session |
| Month:- February | Topic covered |
| Week-1 | Unit -2 Motivation -Nature and Theories |
| Week-2 | Leadership - Styles |
| Week-3 | Leadership - Theories |
| Week-4 | Oral And Written Test ,Problem Solving session |
| Month:- March | Topic covered |
| Week-1 | Unit -3 Communication : Process, Network |
| Week-2 | Communication Barriers |
| Week-3 | Controlling :Concept and Process |
| Week-4 | Oral And Written Test,Assignment -1,Problem Solving session |
| Month:- April | Topic covered |
| Week-1 | Control Techniques: Traditional and Modern |
| Week-2 | Unit -4 Management Of Change |
| Week-3 | Assignment -2, Oral and Written Test ,Problem Solving session |
| Week-4 | Revision |

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| Lesson plan | 2023-2024 (From 1 January 2024 to 30 April 2024) |
|---|---|

| Teacher | Mrs. Priyanka |
|---|---|
| Class | B. Com II (4th Semester) |
| Subject | Business Statistics-II |

| Week, Month | Topic covered |
|---|---|
| Week 1, January | Index Numbers: Meaning, Types and Uses; Method of construction of Price Index and Quantity Indices (Simple and Aggregate) |
| Week 2, January | Test of Adequacy, Chain Base Index Numbers, Base Shifting, |
| Week 3, January | Problem in Constructing Index Number, Consumer Price Index, Problem and solution of Index Numbers |
| Week 4, January | Time Series Analysis-I (Measure of Linear Trend), Model of Analysis of Time Series |
| Week 1, February | Time Series Analysis-II (Fitting of Second Degree Parabolic and Exponential Trend) |
| Week 2, February | Time Series Analysis-III (Measure of Seasonal Variation) |
| Week 3, February | Problem and solution of Time Series Analysis, Test and Presentation |
| Week 4, February | Theory of Probability: Some Basic Concepts of probability, Addition Theorem, Addition Theorem for Not Mutually Exclusive Events |
| Week 1, March | Theory of Probability: Multiplication Theorem, Conditional Probability |
| Week 2, March | Multiplication Theorem for Dependent Events, Combine Use of Addition and Multiplication Theorem |
| Week 3, March | Probability distribution: Probability distribution as a concept meaning and definition |
| Week 4, March | Holi Vocations |
| Week 1, April | Binomial Distribution: Properties and use Binomial Distribution Problem and Solution of Binomial Distribution |
| Week2, April | Poisson Distribution: Properties and use of Poisson Distribution |
| Week3, April | Normal Distribution- Their Properties and Parameters, Poisson and Normal Distribution their Problem and solution, Test and presentation |
| Week4, April | Test Assignment and Revision of all syllabus |

BCA Department

# Lesson Plan session 2023-24 (Even Semester)

Class BCA-2<sup>nd</sup> sem

Teacher: -Suresh Kumar                                    Subject : C programming

| January | C programming |
|---------|---------------|
| Week 1st | Overview of C: History of C, Importance of C, Elements of C: C character set, identifiers and keywords, |
| Week 2<sup>nd</sup> | Data types, Constants and Variables, Assignment statement, |
| Week 3<sup>rd</sup> | Symbolic constant, Structure of a C Program, printf(), scanf() Functions, Operators & Expression: Arithmetic, relational, logical, bitwise, unary, assignment, shorthand assignment operators, conditional operators and increment and decrement operators, |
| Week 4<sup>th</sup> | Arithmetic expressions, evaluation of arithmetic expression, type casting and conversion, operator hierarchy & associativity. UNIT-II Decision making & branching: |
| February Week 1st | Decision making with IF statement, IF-ELSE statement, Nested IF statement, ELSE-IF ladder, switch statement, goto statement. |
| Week 2<sup>nd</sup> | Decision making & looping: For, while, and do-while loop, jumps in loops, break, |
| Week 3<sup>rd</sup> | continue statement, Nested loops. UNIT-III Functions: Standard Mathematical functions, Input/output: |
| Week 4<sup>th</sup> | Unformatted & formatted I/O function in C, Input functions viz. getch(), getche(), getchar(), gets(), output functions viz., putch(), putchar(), puts(), string manipulation functions. |
| March Week 1st | User defined functions: Introduction/Definition, prototype, Local and global variables, passing parameters, recursion. UNIT-IV Arrays, strings and pointers: Definition, |
| Week 2<sup>nd</sup> | types, initialization, processing an array, passing arrays to functions, Array of Strings. String constant and variables, |
| Week 3<sup>rd</sup> | Declaration and initialization of string, Input/output of string data, |
| Week 4<sup>th</sup> | **Holi Break (23.03.2024 To 31.03.2024)** |
| April Week 1st | Introduction to pointers. Storage classes in C: auto, extern, register and static storage class, |
| Week 2<sup>nd</sup> | their scope, storage, & lifetime. Algorithm development, Flowcharting and Development of efficient program in C. |
| Week 3<sup>rd</sup> | Test |

# Lesson Plan session 2023-24 (Even Semester)

**Class BCA -4th Sem**

**Teacher: - SONIA**

**Subject : Software Engineering**

| January | Software Engineering |
|---|---|
| Week 1st | UNIT – I Introduction: Software Crisis, Software Processes & Characteristics |
| Week 2nd | Software life cycle models, Waterfall, Prototype, Evolutionary and Spiral Models. |
| Week 3rd | Software Requirements Analysis & Specifications: Requirement engineering, |
| Week 4th | requirement elicitation techniques like FAST, QFD, requirements analysis using DFD, |
| February Week 1st | Data dictionaries & ER Diagrams, Requirements documentation, Nature of SRS, Characteristics & organization of SRS . UNIT – II Software Project Management Concepts: |
| Week 2nd | The Management spectrum, The People The Problem, The Process, The Project. Software Project Planning: Size Estimation like lines of Code & Function Count, Cost Estimation Models, COCOMO, Risk Management. |
| Week 3rd | UNIT - III Software Design: Cohesion & Coupling, Classification of Cohesiveness & Coupling, Function Oriented Design, |
| Week 4th | Object Oriented Design, Software Metrics: Software measurements: What & Why, Token Count, Halstead Software Science Measures, Design Metrics, |
| March Week 1st | Data Structure Metrics Software Implementation: Relationship between design and implementation, Implementation issues and programming support environment, |
| Week 2nd | Coding the procedural design, Good coding style. UNIT - IV Software Testing: Testing Process, Design of Test Cases, |
| Week 3rd | Types of Testing, Functional Testing, Structural Testing, Test Activities, Unit Testing, Integration Testing and System Testing |
| Week 4th | **Holi Break (23.03.2024 To 31.03.2024)** |
| April Week 1st | , Debugging Activities. Software Maintenance: Management of Maintenance, Maintenance Process, |
| Week 2nd | Reverse Engineering, Software Re-engineering, Configuration Management, Documentation. |
| Week 3rd | Test |