**Weekly lesson plan (2021-22)**

**Course: B.Sc. (Honours) Mathematics 1st Year**

**Subject:** **Discrete Mathematics II Code: BHM 124**

**Faculty: VIJAY SHARMA**

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| **Week** | **Topics Covered** |
| 1st April to 2nd April | Lattices and their properties |
| 4th April to 9th April | Complement and distributive lattices, Properties, Boolean algebra, definition and examples |
| 11th April 16th April | Duality, distributive and complmented Calculus. |
| 18th April to 23th April | Design and implementation of digital networks, |
| 25th April to 30th April | Switching circuits, Karnaugh map. |
| 2nd May to 7th May | Graph, definition, exemplary types of graphs, paths and circuits. |
| 9th May to 14th May | Eulearian and Hermitian circuits. Seven bridges machine |
| 16th May to 21rd May | Shortest path traveling salesman problems. Planar graph. Matrix of graph. |
| 23rd May to 28th May | Directed Graphs, Trees, Isomorphism of Trees |
| 30th May to 4th June | Representation of Algebraic Expressions by Binary Trees |
| 6th June to 11th June | Spanning Tree of a Graph, Minimal spanning Trees |
| 13th June to 20th  June | Shortest Path Problem, Cut Sets, Tree Searching |

**Weekly lesson plan (2021-22)**

**Course: B.Sc (NM)/B.A./B.Sc. (Hon.), I year**

**Subject: Number Theory and Trigonometry Code:BM 121**

**Faculty: Dr. Gulshan Kumari, Vijay Sharma, Ritu**

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| **Week** | **Topics Covered** |
| 1st April to 2nd April | Divisibility, G.C.D.(greatest common divisors), L.C.M.(least common multiple) Primes, Fundamental Theorem of Arithemetic |
| 4th April to 9th April | Linear Congruences, Fermat’s theorem. |
| 11th April 16th April | Wilson’s theorem and its converse, Linear Diophanatine equations in two variables |
| 18th April to 23th April | Complete residue system and reduced residue system modulo m. |
| 25th April to 30th April | Euler’s ø function Euler’s generalization of Fermat’s theorem |
| 2nd May to 7th May | Chinese Remainder Theorem. Quadratic residues. Legendre symbols. Lemma of Gauss; Gauss reciprocity law. |
| 9th May to 14th May | Greatest integer function [x]. The number of divisors and the sum of divisors of a natural number n (The (n)). |
| 16th May to 21rd May | Moebius function and Moebius inversion formula.σfunctions d(n), De Moivre’s Theorem and its Applications. |
| 23rd May to 28th May | Expansion of trigonometrical functions. Direct circular and hyperbolic functions and their properties. |
| 30th May to 4th June | Inverse circular and hyperbolic functions and their properties. |
| 6th June to 11th June | Logarithm of a complex quantity, Gregory’s series. |
| 13th June to 20th  June | Summation of Trigonometry series |

**Weekly lesson plan (2021-22)**

**Course: B.Com.1st Year**

**Subject:** **Business Mathematics II Code: 2.02**

**Faculty: Dr. Jitender Rawat, Vijay Sharma, Dr. Monika**

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| **Week** | **Topics Covered** |
| 1st April to 2nd April | Matrices and Determinants: Definition of a Matrix. |
| 4th April to 9th April | Types of Matrices, Algebra of Matrices. |
| 11th April 16th April | Calculation of values of Determinants up to third order; adjoint of a Matrix. |
| 18th April to 23th April | Elementary row and column operations; Finding inverse matrix through adjoint and elementary row or column operations. |
| 25th April to 30th April | Solution of a system of Linear equations having unique Solution. |
| 2nd May to 7th May | Differentiation, Application of differentiation. |
| 9th May to 14th May | Compound Interest and Annuities, Certain different types of interest rate. |
| 16th May to 21rd May | Types of annuities; Present value and amount of an annuity |
| 23rd May to 28th May | Ratio and proportion |
| 30th May to 4th June | Percentage , concept of present value |

**Weekly lesson plan (2021-22)**

**Course: B.Sc. (1st year ) Math honours**

**Subject: Regression Analysis and probability** **Code:BHM 125 Faculty: Sangeeta**

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| **Week** | **Topics Covered** |
| 1st April to 2nd April | Linear Regression: Concept of regression, principle of least squares and fitting of straight line |
| 4th April to 9th April | derivation of two lines of regression, properties of regression coefficients, standard error of estimate obtained from regression line,, |
| 11th April 16th April | correlation coefficient between observed and estimated va Angle between two lines of regression. Difference between correlation and regression lues |
| 18th April to 23th April | Curvilinear Regression: Fitting of second degree parabola, power curve of the type Y=axb |
| 25th April to 30th April | exponential curves of the types Y=abx and Y=ae bx, Concepts in Probability |
| 2nd May to 7th May | Random experiment, trial, sample point, sample space, operation of events, exhaustive, equally likely and independent events |
| 9th May to 14th May | Definition of probability—classical, relative frequency, statistical and axiomatic approach, Addition and multiplication laws of probability |
| 16th May to 21rd May | Boole’s inequality, Bayes’ theorem and its applications. Random Variable and Probability |
| 23rd May to 28th May | Functions: Definition and properties of random variables, discrete and continuous random variable |
| 30th May to 4th June | probability mass and density functions, distribution function. |
| 6th June to 11th June | Concepts of bivariate random variable: joint, marginal and conditional distributions |
| 13th June to 20th  June | Mathematical Expectation: Definition and its properties –moments, measures of location, dispersion ,skewness and kurtosis |

**Weekly lesson plan (2021-2022)**

**Class B.A/B.Sc.1st year Maths (Honors). N.M.**

Subject: Ordinary Differential Equations Code: BM 122

Faculity:- Dr. Pardeep kumar and Dr. Gulshan Kumari

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| **Week** | **Topics Covered** |
| 1st April to 2nd April | Geometrical meaning of a differential equation , Exact differential equations, integrating factors. |
| 4th April to 9th April | First order higher degree equations solvable for x,y,p Lagrange’s equations, Clairaut’s equations. |
| 11th April 16th April | Equation reducible to Clairaut’s form. Singular solutions. Orthogonal trajectories: in Cartesian coordinates and polar coordinates. Self orthogonal family of curve |
| 18th April to 23th April | Linear differential equations of second order: Reduction to normal form. Transformation of the equation by changing the dependent variable/ the independent variable |
| 25th April to 30th April | Solution by operators of non-homogeneous linear differential equations. Reduction of order of a differential equation. |
| 2nd May to 7th May | Method of variations of parameters.Method of undetermined coefficients. |
| 9th May to 14th May | . Ordinary simultaneous differential equations, Test (1st unit) |
| 16th May to 21rd May | Solution of simultaneous differential equations involving operators x (d/dx) or t (d/dt) etc |
| 23rd May to 28th May | Simultaneous equation of the form dx/P = dy/Q = dz/R. Total differential equations |
| 30th May to 4th June | Condition for Pdx + Qdy +Rdz = 0 to be exact. ,Test (2nd unit ) Assignments and problems |
| 6th June to 11th June | General method of solving Pdx + Qdy + Rdz = 0 by taking one variable constant |
| 13th June to 20th June | Method of auxiliary equations. |

**Weekly lesson plan 2021-22**

**Course: B.A./ B.Sc. (H and N.m ) 1st year**

**Subject:** **Vector Calculus Code: BM 123**

**Faculty: Rajesh Kumar,Sangeeta**

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| **Week** | **Topics Covered** |
| 1st April to 2nd April | Scalar and vector product of three vectors |
| 4th April to 9th April | product of four vectors. Reciprocal vectors, Vector differentiation. Scalar Valued point functions, vector valued point functions, |
| 11th April 16th April | derivative along a curve, directional derivatives, Gradient of a scalar point function |
| 18th April to 23th April | character of gradient as a point function, Divergence of vector point function |
| 25th April to 30th April | Curl of vector point function, characters of Div f & and Curl f & as point function, examples |
| 2nd May to 7th May | Gradient, divergence and curl of sums and product and their related vector identities. Laplacian operator |
| 9th May to 14th May | Orthogonal curvilinear coordinates, Conditions for orthogonality fundamental triad of mutually orthogonal unit vectors |
| 16th May to 21rd May | Gradient, Curl in terms of orthogonal curvilinear coordinates |
| 23rd May to 28th May | Divergence and Laplacian operators |
| 30th May to 4th June | Cylindrical co-ordinates and Spherical coordinates. |
| 6th June to 11th June | Vector integration; Line integral, Surface integral, Volume integral |
| 13th June to 20th  June | Theorems of Gauss, Green & Stokes and problems based on these theorms |

**Weekly lesson plan (2021-22)**

**Class :- B.A/ B.Sc.(A & B)/B.Sc.(H) 2nd Year**

**Subject: Sequences and Series Code: BM 241**

**Faculty: Rajesh Kumar, Ritu, Dr. Sangeeta**

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| **Week** | **Topic to be Covered** |
| 1st April to 2nd April | Boundedness of the set of real numbers; least upper bound, greatest lower bound of a set, neighborhoods, interior points, isolated points, limit points. |
| 4th April to 9th April | open sets, closed set, interior of a set, closure of a set in real numbers and their properties. Bolzano-Weiestrass theorem, Open covers. Compact sets and Heine-Borel Theorem. |
| 11th April 16th April | Sequence: Real Sequences and their convergence, Theorem on limits of sequence, Bounded and monotonic sequences. |
| 18th April to 23th April | Cauchy’s sequence, Cauchy general principle of convergence, Subsequences, Subsequential limits. |
| 25th April to 30th April | Infinite series: Convergence and divergence of Infinite Series, Comparison Tests of positive terms Infinite series. |
| 2nd May to 7th May | Cauchy’s general principle of Convergence of series,Convergence and divergence of geometric series, Hyper Harmonic series or p-series. |
| 9th May to 14th May | Infinite series: D-Alembert’s ratio test, Raabe’s test, Logarithmic test, de Morgan and Bertrand’s test, Cauchy’s Nth root test. |
| 16th May to 21rd May | Gauss Test, Cauchy’s integral test, Cauchy’s condensation test. |
| 23rd May to 28th May | Alternating series, Leibnitz’s test, absolute and conditional convergence, Arbitrary series: abel’s lemma, Abel’s test |
| 30th May to 4th June | Dirichlet’s test, Insertion and removal of parenthesis, rearrangement of terms in a series. |
| 6th June to 11th June | Dirichlet’s theorem, Riemann’s Re-arrangement theorem, Pringsheim’s theorem (statement only), |
| 13th June to 20th June | Multiplication of series, Cauchy product of series, (definitions and examples only) ,Convergence and absolute convergence of infinite products. |

**Weekly lesson plan (2021-22)**

**Course: B.Sc. (Honours) Mathematics 2nd Year**

**Subject:**  **Hydrostatics Code: BHM 244**

**Faculty: Dr. Ritikesh Kumar**

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| **Week** | **Topics Covered** |
| 1st April to 2nd April | Pressure equation. Condition of equilibrium |
| 4th April to 9th April | Lines of force. Homogeneous and heterogeneous fluids. |
| 11th April 16th April | Elastic fluids. Surface of equal pressure |
| 18th April to 23th April | Fluid at rest under action of gravity. Rotating fluids. |
| 25th April to 30th April | Fluid pressure on plane surfaces |
| 2nd May to 7th May | Centre of pressure**.** |
| 9th May to 14th May | Equilibrium of floating bodies. Curves of buoyancy. |
| 16th May to 21rd May | Stability of equilibrium of floating bodies. Metacentre |
| 23rd May to 28th May | Work done in producing a displacement, Vessels containing liquid. |
| 30th May to 4th June | Gas laws. Mixture of gases, Work done in compressing a gas |
| 6th June to 11th June | Isothermal atmosphere, Connective equilibrium |
| 13th June to 20th  June | Surface of buoyancy , Resultant pressure on curved surfaces. |

**Weekly lesson plan (2021-22)**

**Course: B.Sc. (Honours) Mathematics 2nd Year**

**Subject:**  **Elementary Inference Code: BHM 245**

**Faculty: Dr. Ritikesh Kumar**

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| **Week** | **Topics Covered** |
| 1st April to 2nd April | Parameter and statistic. Sampling distribution and standard error of estimate. |
| 4th April to 9th April | Related confidence intervals. Analysis of variance (ANOVA) for one-way and two-way classified data. |
| 11th April 16th April | Point and interval estimation, Unbiasedness. |
| 18th April to 23th April | Efficiency, Consistency and Sufficiency. Definition of Chi-square statistic. |
| 25th April to 30th April | Method of maximum likelihood estimation. Null and alternative hypotheses. |
| 2nd May to 7th May | Simple and composite hypotheses, Critical region. |
| 9th May to 14th May | Level of significance, One tailed and two tailed tests. |
| 16th May to 21rd May | Types of errors, Neyman- Pearson Lemma. |
| 23rd May to 28th May | Testing and interval estimation of a single mean. single proportion, difference between two means. |
| 30th May to 4th June | two proportions, Fisher’s Z transformation, Chi-square tests for goodness of fit and independence of attributes. |
| 6th June to 11th June | Testing for the mean and variance of univariate normal distributions. |
| 13th June to 20th  June | Testing of equality of two means and two variances of two univariate normal distributions. |

**Weekly lesson plan (2021-22)**

**Course: B.A. / B.Sc. (N.M.)/ B.Sc. (Hons) 4th Sem**

**Subject: Special Functions and integral transforms**

**Faculty: Dr. Chhavi Mangla / Dr. Gulshan Kumari**

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| **Week** | **Topics Covered** |
| 1st April to 2nd April | Series solution of differential equations – Power series method |
| 4th April to 9th April | Frobenius Method, Definitions of Beta and Gamma functions, Bessel equation and its solution |
| 11th April 16th April | Bessel functions and their properties-Convergence, recurrence, Relations |
| 18th April to 23th April | Generating functions, Orthogonality of Bessel functions, Solutions of problems  Test and Assignment |
| 25th April to 30th April | Legendre differentials equations and their solutions: Legendre functions and their properties, Rodrigues’ Formula for Legendre Polynomials |
| 2nd May to 7th May | Recurrence relations and Generating Functions , Laplace Integral Representation of Legendre polynomial, Orthogonality of Legendre polynomials |
| 9th May to 14th May | Hermite differentials equations and their solutions: Hermite functions and their properties-Recurrence Relations and generating functions. |
| 16th May to 21rd May | Orthogonality of Hermite polynomials. Rodrigues’ Formula for Hermite Polynomials  Test and Assignment |
| 23rd May to 28th May | Laplace Transforms – Existence theorem for Laplace transforms, Linearity of the Laplace transforms, Shifting theorems |
| 30th May to 4th June | Laplace transforms of derivatives and integrals, Differentiation and integration of Laplace transforms,  Convolution theorem, Inverse Laplace transforms, convolution theorem, Inverse Laplace transforms of derivatives and integrals |
| 6th June to 11th June | Solution of ordinary differential equations using Laplace transform  Test and Assignment |
| 13th June to 20th  June | Parseval’s identity for Fourier transforms, solution of differential Equations using Fourier Transforms  Test and Assignment |

**Weekly lesson plan (2021-22)**

**Course:- B.A./B.Sc. (Honors)/B.Sc. (N.M) III year**

**Subject: Dynamics Code:BHM 121**

**Faculty: Mr. Rajesh Kumar, Dr. Ritikesh**

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| **Week** | **Topics** |
| 1st April to 2nd April | Velocity and acceleration along radial, transverse, tangential and normal directions |
| 4th April to 9th April | Relative velocity and acceleration |
| 11th April 16th April | Simple harmonic motion. |
| 18th April to 23th April | Elastic strings |
| 25th April to 30th April | Newton’s laws of motion. |
| 2nd May to 7th May | Work, Power and Energy. |
| 9th May to 14th May | Definitions of Conservative forces and Impulsive forces. |
| 16th May to 21rd May | Motion on smooth and rough plane curves. |
| 23rd May to 28th May | Projectile motion of a particle in a plane. |
| 30th May to 4th June | Vector angular velocity |
| 6th June to 11th June | General motion of a rigid body. |
| 13th June to 20th June | Central Orbits, Kepler laws of motion. |

**Weekly lesson plan (2021-2020)**

**Course: B.Sc(NM)/ B.A/B.Sc. (Honors) Mathematics IIIrd Year**

**Subject: Real and Complex Analysis** **Code: BHM 361**

**Faculty: Dr. Gulshan Kumari, Ritu**

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| **Week** | **Topics Covered** |
| 1st April to 2nd April | Jacobians, Beta functions, Gama functions, |
| 4th April to 9th April | Double and Triple integrals, |
| 11th April 16th April | Fourier’s series: Fourier expansion of piecewise monotonic functions, |
| 18th April to 23th April | Properties of Fourier Co-efficients, Dirichlet’s conditions, |
| 25th April to 30th April | Parseval’s identity for Fourier series, Fourier series for even and odd functions, Half range series, Change of Intervals. |
| 2nd May to 7th May | Extended Complex Plane, Stereographic projection of complex numbers, |
| 9th May to 14th May | continuity and differentiability of complex functions, |
| 16th May to 21rd May | Analytic functions, Cauchy-Riemann equations. Harmonic functions. |
| 23rd May to 28th May | Mappings by elementary functions: Translation, rotation |
| 30th May to 4th June | Magnification and Inversion. Conformal Mappings, |
| 6th June to 11th June | Mobius transformations. Fixed pints, Cross ratio, Inverse Points, |
| 13th June to 20th  June | Critical mappings. |

**Weekly lesson plan (2021-2022)**

**Course: B.Sc(NM)/ B.A/B.Sc. (Honors) Mathematics IIIrd Year**

**Subject: Linear Algebra Code: BHM 362**

**Faculty: Dr. Chhavi Mangla, Dr. Sangeeta, Dr. Monika Dhariwal**

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| **Week** | **Topics Covered** |
| 1st April to 2nd April | Vector spaces |
| 4th April to 9th April | subspaces, Sum and Direct sum of subspaces, Existence theorem for basis of a finitely generated vector space |
| 11th April 16th April | Linear span, Linearly Independent and dependent subsets of a vector space, Finitely generated vector space Finite dimensional vector spaces |
| 18th April to 23th April | Invariance of the number of elements of bases sets , Dimensions, Quotient space and its dimension  Test and Assignment |
| 25th April to 30th April | Homomorphism and isomorphism of vector spaces, Linear transformations and linear forms of vector spaces, Vector space of all the linear transformations |
| 2nd May to 7th May | Null Space, Range space of a linear transformation, Rank and Nullity Theorem  Problems |
| 9th May to 14th May | Dual Spaces, Dual spaces, annihilator of subspaces of finite dimensional vector spaces  Test and Assignment |
| 16th May to 21rd May | Algebra of Linear Transformation, Minimal Polynomial of a linear transformation  Problems |
| 23rd May to 28th May | Singular and non-singular linear transformations, Matrix of a linear Transformation |
| 30th May to 4th June | Change of basis,Eigen values and Eigen vectors of linear transformations |
| 6th June to 11th June | Inner product spaces, Cauchy-Schwarz inequality, Orthogonal vectors, Orthogonal complements |
| 13th June to 20th  June | Orthogonal sets and Basis, Bessel’s inequality for finite dimensional vector spacesProblems |

**Weekly lesson plan (2021-22)**

**Course: B.Sc. (Honors) Mathematics IIIrd Year Semester-6th**

**Subject:** **Elementary Topology Code: BHM 364**

**Faculty: VIJAY SHARMA**

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| **Week** | **Topics Covered** |
| 1st April to 2nd April | Definition and examples of topological spaces |
| 4th April to 9th April | Comparison of topologies on a set, Neighbourhood, Interior point and interior of a set |
| 11th April 16th April | Closed set as a complement of an open set ,Closure of a set, Derived set, Properties of Closure operator |
| 18th April to 23th April | Boundary of a set , Dense subsets, Interior, Exterior |
| 25th April to 30th April | Relative(Induced) topology, Base and subbase for a topology, Base for Neighbourhood System |
| 2nd May to 7th May | Continuous functions, Open and closed functions , Homeomorphism. Connectedness |
| 9th May to 14th May | Connected subsets and their properties, Continuity and connectedness, Components |
| 16th May to 21rd May | Compact spaces and subsets, Compactness in terms of finite intersection property, Continuity and compact sets |
| 23rd May to 28th May | Basic properties of compactness, compact subset and a continuous map from a compact space into a Hausdorff and its consequence |
| 30th May to 4th June | Sequentially and countably compact sets, Local compactness |
| 6th June to 11th June | First countable, second countable and separable spaces, hereditary and topological property |
| 13th June to 20th June | Lindelof theorem,T0, T1, T2 , separation axioms, their characterization and basic properties. |

**Weekly lesson plan (2021-2022)**

**Course: B.Sc. (Honors) Mathematics IIIrd Year**

**Subject: Operation Research II Code: BHM 366**

**Faculty: Dr. Chhavi Mangla**

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| **Week** | **Topics Covered** |
| 1st April to 2nd April | Inventory Control: introduction of inventory |
| 4th April to 9th April | Types of inventory, factors affecting inventory, Inventory models |
| 11th April 16th April | Deterministic models: Economic order quantity model when shortages are allowed, shortages are not allowed |
| 18th April to 23th April | Price discounts model, multi-item inventory models  Assignment |
| 25th April to 30th April | Queuing Theory : Basic characteristics of queuing system, . Birth-death equations |
| 2nd May to 7th May | Steady state solution of Markovian queuing models with single servers (M/M/1), multiple servers (M/M/c) |
| 9th May to 14th May | Steady state solution of Markovian queuing models with limited capacity (M/M/1/K and M/M/c/K)  Assignment |
| 16th May to 21rd May | Sequencing problems: Processing of n jobs through 2 machines, n jobs through 3 machines, Processing of 2 jobs through m machines |
| 23rd May to 28th May | Processing n jobs through m machines, Replacement problems: Replacement of items whose running cost increases with time |
| 30th May to 4th June | Replacement policies for the items that fail completely - Individual and the group replacement policies  Assignment |
| 6th June to 11th June | PERT and CPM: Introduction of PERT and CPM, Earliest and latest times, |
| 13th June to 20th  June | Determination of critical path and various types of floats, Probablistic and cost considerations in project scheduling  Test and Assignment |

**Weekly lesson plan (2021-2022)**

**Course: B.Sc. (Honors) Mathematics IIIrd Year**

**Subject: Fluid Dynamics Code: BHM 365**

**Faculty: Dr. MONIKA Dhariwal**

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| **Week** | **Topics Covered** |
| 1st April to 2nd April | Kinematics - Eulerian and Lagrangian methods. |
| 4th April to 9th April | Irrotational and rotational motions. Vortex lines. Equation of continuity |
| 11th April 16th April | Velocity potential.. Boundary surfaces. Section - II Acceleration at a point of a fluid. |
| 18th April to 23th April | Euler’s and Lagrange’s equations of motion. Bernoulli’s equation. Impulsive motion. |
| 25th April to 30th April | Stream function. Section - III Acyclic and cyclic irrotation motions. Kinetic energy of irrotational flow. Kelvin’s minimum energy theorem. Axially symmetric flows. |
| 2nd May to 7th May | Liquid streaming past a fixed sphere. Motion of a sphere through a liquid at rest at infinity. |
| 9th May to 14th May | Equation of motion of a sphere. Three-dimensional sources, sinks, doublets and their images. Stoke’s stream function. |
| 16th May to 21rd May | Irrotational motion in two-dimensions. Complex velocity potential. Milne-Thomson circle theorem. |
| 23rd May to 28th May | Two-dimensional sources, sinks, doublets and their images. |
| 30th May to 4th June | .. Blasius theorem. Two- dimensional irrotation motion |
| 6th June to 11th June | Stream lines, path lines and streak lines produced by motion of circular |
| 13th June to 20th  June | Coaxial cylinders in an infinite mass of liquid. |

**Weekly lesson plan (2021-2022)**

**Course: B.Sc(NM)/ B.A/B.Sc. (Honors) Mathematics IIndYear**

**Subject:**  **programming in C And Numerical** **Code: BHM 243**

**Faculty: Dr. Pradeep kumar, Dr. Monika Dhariwal**

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| **Week** | **Topics Covered** |
| 1st April to 2nd April | Programmer’s model of a computer |
| 4th April to 9th April | Algorithms, Flow charts, Data types, |
| 11th April 16th April | Operators and expressions, Input / outputs functions. |
| 18th April to 23th April | Decisions control structure: Decision statements, |
| 25th April to 30th April | Logical and conditional statements, Implementation of Loops, |
| 2nd May to 7th May | Switch Statement & Case control structures. Functions, Preprocessors and Arrays |
| 9th May to 14th May | Strings: Character Data Type, Standard String handling Functions, Arithmetic Operations on Characters. |
| 16th May to 21rd May | Structures: Definition, using Structures, use of Structures in Arrays and Arrays in Structures. |
| 23rd May to 28th May | Pointers: Pointers Data type, Pointers and Arrays, Pointers and Functions. |
| 30th May to 4th June | Solution of Algebraic and Transcendental equations: Bisection method, Regula-Falsi method, Secant method, |
| 6th June to 11th June | Order of convergence of above methods. Triangularization method |
| 13th June to 20th  June | Gauss-elimination method, Gauss-Jordan method, Jacobi’s method, Gauss-Seidal’s method, Relaxation method. |