**Summary of lesson plan of college Faculty**

Name of College: **IGN College, Ladwa** Academic session **2023-24** Semester: **Even** for the month of **Jan 2023**

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| **Sr. no.** | **Name of Assistant Professor** | **Subject** | **Class** | **Topic/ chapter to be covered** | **Other Activity** |
| **1** | **Prof. Priyanka** | Mathematics | B.Sc. II | Sequences |  |
|  |  |  |  |  |  |
|  |  |  | B.Sc. III | Jacobians |  |
|  |  |  |  | Beta & Gamma Function |  |
|  |  |  |  | Double & Triple Integral |  |
|  |  |  |  |  |  |
|  |  |  | B.Sc. II (Practical) | * Program to generate first n prime numbers * Program to solve quadratic equation |  |
|  |  |  |  |  |  |

**Summary of lesson plan of college Faculty**

Name of College: **IGN College, Ladwa** Academic session **2023-24** Semester: **Even** for the month of Feb **2023**

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| **Sr. no.** | **Name of Assistant Professor** | **Subject** | **Class** | **Topic/ chapter to be covered** | **Other Activity** |
| **1** | **Prof. Priyanka** | Mathematics | B.Sc. II | Infinite Series  Infinite Series (Continued)  Alternating Series |  |
|  |  |  |  | Arbitrary Series |  |
|  |  |  |  | Infinite products |  |
|  |  |  |  | Topology of Real Numbers |  |
|  |  |  |  |  |  |
|  |  |  | B.Sc. III | Fourier Series (Continued) |  |
|  |  |  |  | Calculus of Complex Functions |  |
|  |  |  |  | Elementary Functions & MobiusTransformations |  |
|  |  |  |  | Critical Mappings |  |
|  |  |  |  |  |  |
|  |  |  | MDC I | Matrices |  |
|  |  |  |  | Determinants |  |
|  |  |  |  | Compound Interest |  |
|  |  |  |  | Annuities |  |
|  |  |  |  |  | Assignment first (unit I) to be taken |
|  |  |  | B.Com. I | Linear Programming  Binomial Theorem |  |
|  |  |  |  |  |  |
|  |  |  | B.Sc. II (Practical) | * Program to calculate compound interest * Program to find G.C.D. of two numbers * Program to generate first n Fibonacci terms * Program to find transpose of matrix * Program for multiplications of matrix * Program to demonstrate Bisection method * Program to demonstrate Regula- Falsi method |  |
|  |  |  |  |  |  |
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|  |  |  | B.Sc. I (Practical) | * Problems to find the row rank and column rank of a matrix. * Problems to find the eigen values and eigen vectors of a matrix. * Problems to find the minimal polynomial of a matrix. * Problems of finding inverse of a matrix using Cayley Hamilton theorem. * Problems of solving cubic equations by Cardon’s method |  |
|  |  |  |  |  |  |
|  |  |  | MDC I (Practical) | Practical 1: To find sum of matrices  Practical 2: To find product of matrices  Practical 3: To find determinant of a matrix  Practical 4: To find inverse of a matrix |  |
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**Summary of lesson plan of college Faculty**

Name of College: **IGN College, Ladwa** Academic session **2023-24** Semesters: **Even** for the month of **March 2023**

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| **Sr. no.** | **Name of Assistant Professor** | **Subject** | **Class** | **Topic/ chapter to be covered** | **Other Activity** |
| **1** | **Prof. Priyanka** | Mathematics | B.Sc. II | Topology of Real Number (Continued) |  |
|  |  |  |  | Solution of Algebraic & Transcendental Equations |  |
|  |  |  |  | Simultaneous Linear Algebraic Equations | Class Test will be taken |
|  |  |  |  |  |  |
|  |  |  | B.Sc. III | Projectiles, Central Orbits |  |
|  |  |  |  | Kepler's Laws of Planetary Motion |  |
|  |  |  |  |  |  |
|  |  |  | B.Com. I | Permutation and Combination  Differentiation |  |
|  |  |  |  |  |  |
|  |  |  | MDC I | Linear Programming |  |
|  |  |  |  | Differentiation |  |
|  |  |  |  |  |  |
|  |  |  | B.Sc. II (Practical) | * Program to demonstrate Newton-Raphson method * Program to demonstrate Gauss Elimination method * Program to demonstrate Gauss Seidel method * Program to demonstrate Gauss Jordan method |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  | MDC I (Practical) | Practical 5: To find solution of system of linear equations  Practical 6: To find derivatives of simple functions  Practical 7: To find integration of simple functions |  |
|  |  |  |  |  |  |
|  |  |  |  |  | Assignment second to be taken |
|  |  |  | B.Sc. I (Practical) | * Problems of solving biquadratic equations by Descarte’s method. * Problems of solving biquadratic equations by Ferrari’s method. * Problems to find gcd and lcm of two integers. * Problems to find solution of linear congruence using Euler’s theorem. * Problems to find common solution of congruences using Chinese remainder theorem. * Problem of determination of volumes and surfaces of solids of revolution for Polar curve. |  |
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|  |  |  |  |  |  |
|  |  |  |  |  | Presentation of fast learners |
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**Summary of lesson plan of college Faculty**

Name of College: **IGN College, Ladwa** Academic session **2023-24** Semester: **Even** for the month of **April 2023**

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| **Sr. no.** | **Name of Assistant Professor** | **Subject** | **Class** | **Topic/ chapter to be covered** | **Other Activity** |
| **1** | **Prof. Priyanka** | Mathematics | B.Sc. II | Puppetting of Strings |  |
|  |  |  |  | Structures and Unions |  |
|  |  |  |  | Pointers | Revision of Syllabus |
|  |  |  |  |  |  |
|  |  |  | B.Sc. III | Motion of a particle in three dimensions |  |
|  |  |  |  | Motion of a particle on smooth & rough plane curves | Group Discussion |
|  |  |  |  |  |  |
|  |  |  | B.Com. I | Maxima and Minima  Integration |  |
|  |  |  |  |  |  |
|  |  |  | MDC I | Maxima and Minima |  |
|  |  |  |  | Integration |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  | B.Sc. II (Practical) | Program to demonstrate Crout’s method  Revision of practicals and problem discussed |  |
|  |  |  |  |  |  |
|  |  |  | B.Sc. I (Practical) | * To find roots of algebraic equations using MAXIMA. * To find multiple roots of algebraic equations using MAXIMA * To find the value of a determinant using MAXIMA. * To compute inverse of a square matrix using   MAXIMA.   * To find Eigen values of a square matrix using   MAXIMA.   * To find Eigen vectors of a square matrix using   MAXIMA   * To solve system of linear equations using   MAXIMA.   * Problems to find gcd and lcm of two or more   integers using MAXIMA.   * Problems of solving biquadratic equations by   Ferrari’s method using MAXIMA. |  |
|  |  |  |  |  |  |
|  |  |  | MDC I (Practical) | Practical 8: Problems related to maxima and minima  Practical 9: Problems to find simple and compound interest  Practical 10: Problem based on annuity |  |
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