**Summary of lesson plan of college Faculty**

Name of College: **IGN College, Ladwa** Academic session **2021-22** Semester: **Odd** for the month of October **2021**

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| **Sr. no.** | **Name of Assistant Professor** | **Subject** | **Class** | **Topic/ chapter to be covered** | **Other Activity** |
| **1** | **Dr. VandanaGupta** | Mathematics | BSc III  (Practical) | PROGRAM TO DEMONSTRATE NEWTON FORWARD INTERPOLATION FORMULA | Class Test to be taken |
|  |  |  |  | PROGRAM TO DEMONSTRATE NEWTON BACKWARD INTERPOLATION FORMULA |
|  |  |  | BSc. I | MATRICES |
|  |  |  |  | CHARACTERISTIC EQUATION OF A MATRIX, APPLICATIONS OF MATRICES TO A SYSTEM OF LINEAR EQUATIONS |
|  |  |  | BSc. II | FORMATION OF PARTIAL DIFFERENTIAL EQUATIONS, FIRST ORDER LINEAR PARTIAL DIFFERENTIAL EQUATIONS |
|  |  |  |  | FIRST ORDER NON LINEAR PARTIAL DIFFERENTIAL EQUATIONS |
|  |  |  | Bsc III | GROUPS AND SUBGROUPS |
|  |  |  |  | COSETS, HOMOMORPHISMS AND AUTOMORPHISMS |

**Summary of lesson plan of college Faculty**

Name of College: **IGN College, Ladwa** Academic session **2021-22** Semester: **Odd** for the month of **November 2021**

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| **Sr. no.** | **Name of Assistant Professor** | **Subject** | **Class** | **Topic/ chapter to be covered** | **Other Activity** |
| **1** | **Dr. VandanaGupta** | Mathematics | BSc III (Practical) | PROGRAM TO DEMONSTRATE LAGRANGE'S INTERPOLATION FORMULA | Assignment I to be taken |
|  |  |  |  | PROGRAM TO DEMONSTRATE TRAPEZOIDAL RULE |
|  |  |  |  | PROGRAM TO DEMONSTRATE SIMPSON'S 1/3 RULE |
|  |  |  | BSc I | ORTHOGONAL AND UNITARY MATRICES |
|  |  |  |  | RELATION BETWEEN THE ROOTS AND COEFFICIENTS OF AN EQUATION |
|  |  |  | Bsc II | CLASSIFICATION AND CANONICAL FORMS OF SECOND ORDER LINEAR PARTIAL DIFFERENTIAL EQUATIONS |
|  |  |  |  | MONGE'S METHOD FOR PARTIAL DIFFERENTIAL EQUATIONS OF SECOND ORDER, CAUCHY'S PROBLEM |
|  |  |  | Bsc III | PERMUTATION GROUPS, RINGS AND FIELDS |
|  |  |  |  | IDEALS AND QUOTIENT RINGS, HOMOMORPHISMS OF RINGS |
|  |  |  |  | EUCLIDEAN RINGS |

**Summary of lesson plan of college Faculty**

Name of College: **IGN College, Ladwa** Academic session **2021-22** Semesters: **Odd** for the month of **December 2021**

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| **Sr. no.** | **Name of Assistant Professor** | **Subject** | **Class** | **Topic/ chapter to be covered** | **Other Activity** |
| **1** | **Prof. Vandana Gupta** | Mathematics | BSc III (Practical) | PROGRAM TO DEMONSTRATE SIMPSON'S 3/8 RUL | Assignment II to be taken |
|  |  |  |  | PROGRAM TO DEMONSTRATE EULER'S METHOD |
|  |  |  |  | PROGRAM TO DEMONSTRATE EULER'S MODIFIED METHOD |
|  |  |  | BSc I | TRANSFORMATION OF EQUATIONS |
|  |  |  |  | SOLUTION OF CUBIC AND BIQUADRATIC EQUATIONS, DESCARTE'S RULE OF SIGNS |
|  |  |  |  | THE CONICOID |
|  |  |  | Bsc II | METHOD OF SEPERATION OF VARIABLES |
|  |  |  |  | VIRTUAL WORK |
|  |  |  |  | FORCES IN THREE DIMENSIONS |
|  |  |  | Bsc III | POLYNOMIAL RINGS |
|  |  |  |  | NUMERICAL DIFFERENTIATION |

**Summary of lesson plan of college Faculty**

Name of College: **IGN College, Ladwa** Academic session **2021-22** Semester: **Odd** for the month of **January 2021**

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| **Sr. no.** | **Name of Assistant Professor** | **Subject** | **Class** | **Topic/ chapter to be covered** | **Other Activity** |
| **1** | **Dr. VandanaGupta** | Mathematics | BSc III (Practical) | PROGRAM TO DEMONSTRATE RUNGA-KUTTA METHOD OF FOURTH ORDER | Test |
|  |  |  |  | PROGRAM TO DEMONSTRATE MILNE SIMPSON'S METHOD |
|  |  |  | BSc I | PLANE SECTIONS OF CONICOIDS |
|  |  |  |  | GENERATING LINES |
|  |  |  |  | CONFOCAL CONICOIDS |
|  |  |  |  | REDUCTION OF SECOND DEGREE EQUATIONS |
|  |  |  | Bsc II | WRENCHES |
|  |  |  |  | NULL LINES AND NULL PLANES |
|  |  |  |  | STABLE , UNSTABLE AND NEUTRAL EQUILIBRIUM |
|  |  |  | Bsc III | EIGEN VALUE PROBLEMS |
|  |  |  |  | NUMERICAL INTEGRATION |
|  |  |  |  | NUMERICAL SOLUTION OF ORDINARY DIFFERENTIAL EQUATIONS |