**GOVT. P.G. COLLEGE FOR WOMEN, PANCHKULA**

**Session 2020-2021 (ODD SEMESTER)**

NAME OF PROFESSOR. Kiran Bala

DESIGNATION. Assistant Professor in Mathematics

SUBJECT/PAPER Business Mathematics-I

CLASS. B.Com I (Hons.)

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| SR. NO. | MONTH | TOPICS TO BE COVERED | REMARKS IF ANY |
| 1. | OCTOBER | Logarithms, Arithmetic and Geometric Progression. |  |
| 2. | NOVEMBER | Algebra of Matrices, Determinants, Solutions of system of linear equations. | Assignment 1 |
| 3. | DECEMBER | Differentiation, Maxima and Minima. | UNIT TEST  Assignment 2 |
| 4. | JANUARY | Compound Interest, Annuities. |  |

**TWO ASSIGNMENTS AND ONE UNIT TEST WILL BE TAKEN AS PER SCHEDULE**.

Signature of A/Prof .

**GOVT. P.G. COLLEGE FOR WOMEN, PANCHKULA**

**Session 2020-2021 (ODD SEMESTER)**

NAME OF PROFESSOR. Kiran Bala

DESIGNATION. Assistant Professor in Mathematics

SUBJECT/PAPER Partial Differential Equations

CLASS. B.A/B.Sc II ( 3rd Sem.)

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| SR. NO. | MONTH | TOPICS TO BE COVERED | REMARKS IF ANY |
| 1. | August | Formation of Partial Differential Equations, First order Linear Partial Differential Equations, First order Non-Linear Partial Differential Equations. |  |
| 2. | September | Linear Partial Differential Equations of Second and higher orders, Partial Differential Equations with variable Coefficients reducible to equations with constant coefficients, Classification and Canonical forms of Second order Linear PDE. | Assignment 1 |
| 3. | October | Monge’s Method for Partial Differential Equations of Second order, Characteristics of Second order Partial Differential Equations and Cauchy’s Problem. | UNIT TEST  Assignment 2 |
| 4. | November | Method of Separation of Variables: Wave, Heat and Laplace Equations.  Revision |  |

**TWO ASSIGNMENTS AND ONE UNIT TEST WILL BE TAKEN AS PER SCHEDULE**.

Signature of A/Prof .

**GOVT. P.G. COLLEGE FOR WOMEN, PANCHKULA**

**Session 2020-2021 (ODD SEMESTER)**

NAME OF PROFESSOR. Kiran Bala

DESIGNATION. Assistant Professor in Mathematics

SUBJECT/PAPER Real Analysis

CLASS. B.A/B.Sc III (5th Sem.)

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| SR. NO. | MONTH | TOPICS TO BE COVERED | REMARKS IF ANY |
| 1. | August | Riemann Integral |  |
| 2. | September | Improper Integrals and their Convergence, Integral as a function of a Parameter. | Assignment 1 |
| 3. | October | Metric Spaces, Open and Closed sets in Metric Spaces, Completeness in Metric Spaces, Continuity and Uniform Continuity in Metric Spaces. | UNIT TEST  Assignment 2 |
| 4. | November | Compactness in Metric Spaces, Connectedness in Metric Spaces.  Revision |  |

**TWO ASSIGNMENTS AND ONE UNIT TEST WILL BE TAKEN AS PER SCHEDULE**.

Signature of A/Prof .