**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (For Ongoing Classes UG-PG)**

**Session (2021-2022)**

**Class: BA/BSc 5th sem**   **Name of the Teacher: Dr Urmila Rani**

**Subject: Mathematics Period : 1st and 6th**

**Paper : Modern algebra, Analysis Room No : 29**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 11-08-2021 to 14-08-2021 | Group theory |
| Week 2 | 16-08-2021 to 21-08-2021 | Group theory |
| Week 3 | 23-08-2021 to 28-08-2021 | Group theory |
| Week 4 | 31-08-2021 to 04-09-2019 | Riemann Integration |
| Week 5 | 06-09-2021 to 11-09-2021 | Riemann Integration |
| Week 6 | 13-09-2021 to 18-09-2021 | Beta Gamma Function |

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| Week 7 | 20-09-2021 to 25-09-2021 | Beta Gamma Function |
| Week 8 | 27-09-2021 to 01-10-2021 | Subgroups |
| Week 9 | 04-10-2021 to 09-10-2021 | Subgroups |
| Week 10 | 11-10-2021 to 16-10-2021 | Homomorphism and Isomorphism of Groups |
| Week 11 | 18-10-2021 to 19-10-2021 | Homomorphism and Isomorphism of Groups |
| **Mid Semester Exam (21st October 2021 – 30th October 2021)** | | |
| Week 12 | 01-11-2021 to 06-11-2021 | Rings and Integral Domain |
| Week 13 | 08-11-2021 to 13-11-2021 | Subrings, Ideals and Quotient Rings |
| Week 14 | 15-11-2021 to 20-11-2021 | Homomorphism and Isomorphism of Rings |
| Week 15 | 22-11-2021 to 27-11-2021 | Polynomial Rings |
| Week 16 | 29-11-2021 to 30-11-2021 | Countable and Uncountable sets |

**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (For Ongoing Classes UG-PG)**

**Session (2021-2022)**

**Class: BA/BSc 3rd sem**   **Name of the Teacher: Dr Urmila Rani**

**Subject: Mathematics Period : 3rd**

**Paper : Diff Equations, Advanced Calculus Room No : 29**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 11-08-2021 to 14-08-2021 | Exact Differential Equations |
| Week 2 | 16-08-2021 to 21-08-2021 | Linear diff Equations with constant coefficient |
| Week 3 | 23-08-2021 to 28-08-2021 | Linear diff Equations with variable coefficient |
| Week 4 | 31-08-2021 to 04-09-2019 | Linear diff Equations with variable coefficient |
| Week 5 | 06-09-2021 to 11-09-2021 | Partial Derivatives |
| Week 6 | 13-09-2021 to 18-09-2021 | Partial Derivatives |
| Week 7 | 20-09-2021 to 25-09-2021 | Vector Differentiation |
| Week 8 | 27-09-2021 to 01-10-2021 | Gradient , Divergence and Curl |
| Week 9 | 04-10-2021 to 09-10-2021 | Gradient , Divergence and Curl |
| Week 10 | 11-10-2021 to 16-10-2021 | Limit and Continuity of Functions of two variables |
| Week 11 | 18-10-2021 to 19-10-2021 | Limit and Continuity of Functions of two variables |
| **Mid Semester Exam (21st October 2021 – 30th October 2021)** | | |
| Week 12 | 01-11-2021 to 06-11-2021 | First order and higher degree differential Equations |
| Week 13 | 08-11-2021 to 13-11-2021 | First order and higher degree differential Equations |
| Week 14 | 15-11-2021 to 20-11-2021 | Othogonal Trajectories |
| Week 15 | 22-11-2021 to 27-11-2021 | Linear Equations of Second Order |
| Week 16 | 29-11-2021 to 30-11-2021 | Simultaneous Differential Equations |

**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (UG 1st Year)**

**Session (2021-2022)**

**Class: BA/BSc 1st Sem**   **Name of the Teacher: Dr Urmila Rani**

**Subject: Mathematics Period : 4th**

**Paper : Calculus I Room No : 128 (4-6)**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 1-09-2021 to 04-09-2019 | Admission |
| Week 2 | 06-09-2021 to 11-09-2021 | Admission |
| Week 3 | 13-09-2021 to 18-09-2021 | Properties of Real Numbers and Bounds |
| Week 4 | 20-09-2021 to 25-09-2021 | Properties of Real Numbers and Bounds |
| Week 5 | 27-09-2021 to 01-10-2021 | Limit and Continuity |
| Week 6 | 04-10-2021 to 09-10-2021 | Limit and Continuity |
| Week 7 | 11-10-2021 to 16-10-2021 | Derivatives of Hyperbolic and inverse hyperbolic functions |
| Week 8 | 18-10-2021 to 19-10-2021 | Derivatives of Hyperbolic and inverse hyperbolic functions |
| **Mid Semester Exam (21st October 2021 – 30th October 2021)** | | |
| Week 9 | 01-11-2021 to 06-11-2021 | Successive Differentiation |
| Week 10 | 08-11-2021 to 13-11-2021 | Successive Differentiation |
| Week 11 | 15-11-2021 to 20-11-2021 | General Theorems |
| Week 12 | 22-11-2021 to 27-11-2021 | General Theorems |
| Week 13 | 29-11-2021 to 04-12-2021 | Indeterminate forms |
| Week 14 | 06-12-2021 to 11-12-2021 | Indeterminate forms |
| Week 15 | 13-12-2021 to 16-12-2021 | Revision |

**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (For Ongoing Classes UG-PG)**

**Session (2021-2022)**

**Class: BA/BSc 5th sem**   **Name of the Teacher: Satish kumar**

**Subject: Mathematics Period : 1st and 6th**

**Paper : Probability, Analysis Room No : 128**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 11-08-2021 to 14-08-2021 | Elements of probability theory |
| Week 2 | 16-08-2021 to 21-08-2021 | Random variables |
| Week 3 | 23-08-2021 to 28-08-2021 | Discrete random variables |
| Week 4 | 31-08-2021 to 04-09-2019 | Discrete random variables |
| Week 5 | 06-09-2021 to 11-09-2021 | Continuous random variables |
| Week 6 | 13-09-2021 to 18-09-2021 | Bivariate random variables |

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| Week 7 | 20-09-2021 to 25-09-2021 | Bivariate random variables |
| Week 8 | 27-09-2021 to 01-10-2021 | Bivariate random variables |
| Week 9 | 04-10-2021 to 09-10-2021 | Integral as a function of parameter |
| Week 10 | 11-10-2021 to 16-10-2021 | Integral as a function of parameter |
| Week 11 | 18-10-2021 to 19-10-2021 | Integral as a function of parameter |
| **Mid Semester Exam (21st October 2021 – 30th October 2021)** | | |
| Week 12 | 01-11-2021 to 06-11-2021 | Improper integral |
| Week 13 | 08-11-2021 to 13-11-2021 | Improper integral |
| Week 14 | 15-11-2021 to 20-11-2021 | Improper integral |
| Week 15 | 22-11-2021 to 27-11-2021 | Improper integral |
| Week 16 | 29-11-2021 to 30-11-2021 | Improper integral |

**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (For Ongoing Classes UG-PG)**

**Session (2021-2022)**

**Class: BA/BSc 3rd sem**   **Name of the Teacher: Satish kumar**

**Subject: Mathematics Period : 5th**

**Paper : Statics, Advanced Calculus Room No : 128**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 11-08-2021 to 14-08-2021 | Forces acting at a point |
| Week 2 | 16-08-2021 to 21-08-2021 | Forces acting at a point |
| Week 3 | 23-08-2021 to 28-08-2021 | Any number of forces acting at a point |
| Week 4 | 31-08-2021 to 04-09-2019 | Parallel forces |
| Week 5 | 06-09-2021 to 11-09-2021 | Moments |
| Week 6 | 13-09-2021 to 18-09-2021 | Moments |
| Week 7 | 20-09-2021 to 25-09-2021 | Moments |
| Week 8 | 27-09-2021 to 01-10-2021 | Couples |
| Week 9 | 04-10-2021 to 09-10-2021 | Couples |
| Week 10 | 11-10-2021 to 16-10-2021 | Couples |
| Week 11 | 18-10-2021 to 19-10-2021 | Friction |
| **Mid Semester Exam (21st October 2021 – 30th October 2021)** | | |
| Week 12 | 01-11-2021 to 06-11-2021 | Centre of gravity |
| Week 13 | 08-11-2021 to 13-11-2021 | Jacobians |
| Week 14 | 15-11-2021 to 20-11-2021 | Jacobians |
| Week 15 | 22-11-2021 to 27-11-2021 | Maxima and minima |
| Week 16 | 29-11-2021 to 30-11-2021 | Envelopes and Evolutes |

**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (UG 1st Year)**

**Session (2021-2022)**

**Class: BA/BSc 1st Sem**   **Name of the Teacher: Satish Kumar**

**Subject: Mathematics Period : 2nd(1-4) ,4th (1\_3)**

**Paper : Calculus ,algebra Room No : 128**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 1-09-2021 to 04-09-2019 | Admissions |
| Week 2 | 06-09-2021 to 11-09-2021 | Admissions |
| Week 3 | 13-09-2021 to 18-09-2021 | Transformations of axes |
| Week 4 | 20-09-2021 to 25-09-2021 | Straight lines |
| Week 5 | 27-09-2021 to 01-10-2021 | Circles |
| Week 6 | 04-10-2021 to 09-10-2021 | Circles |
| Week 7 | 11-10-2021 to 16-10-2021 | Parabolas |
| Week 8 | 18-10-2021 to 19-10-2021 | Parabolas |
| **Mid Semester Exam (21st October 2021 – 30th October 2021)** | | |
| Week 9 | 01-11-2021 to 06-11-2021 | Ellipses |
| Week 10 | 08-11-2021 to 13-11-2021 | Hyperbolas |
| Week 11 | 15-11-2021 to 20-11-2021 | Rank of matrices |
| Week 12 | 22-11-2021 to 27-11-2021 | System of equations |
| Week 13 | 29-11-2021 to 04-12-2021 | Eigen values and vectors |
| Week 14 | 06-12-2021 to 11-12-2021 | De Moivre thm |
| Week 15 | 13-12-2021 to 16-12-2021 | Complex functions |

**PG.GOVT COLLEGE FOR GIRLS, SECTOR-42, CHANDIGARH**

**Teaching Plan Odd Semester (UG 1st Year)**

**Session (2021-2022)**

**Class: BSc I Bio tech (H)**   **Name of the Teacher:**

**Subject: Mathematics Period :2nd(5-6)**

**Paper :Mathematics Room No : 128**

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| **S. No** | **Dates** | **Topics to be covered** |
| Week 1 | 1-09-2021 to 04-09-2019 | Set theory |
| Week 2 | 06-09-2021 to 11-09-2021 | Complex numbers |
| Week 3 | 13-09-2021 to 18-09-2021 | Differentiations |
| Week 4 | 20-09-2021 to 25-09-2021 | Differentiations |
| Week 5 | 27-09-2021 to 01-10-2021 | Rolles thm |
| Week 6 | 04-10-2021 to 09-10-2021 | lmv thm |
| Week 7 | 11-10-2021 to 16-10-2021 | integration |
| Week 8 | 18-10-2021 to 19-10-2021 | integration |
| **Mid Semester Exam (21st October 2021 – 30th October 2021)** | | |
| Week 9 | 01-11-2021 to 06-11-2021 | ODE |
| Week 10 | 08-11-2021 to 13-11-2021 | ODE |
| Week 11 | 15-11-2021 to 20-11-2021 | ODE |
| Week 12 | 22-11-2021 to 27-11-2021 | ODE |
| Week 13 | 29-11-2021 to 04-12-2021 | LPP |
| Week 14 | 06-12-2021 to 11-12-2021 | LPP |
| Week 15 | 13-12-2021 to 16-12-2021 | LPP |