Govt. College, Alewa

Department of Mathematics

Dr. Sonu Jangra, Assistant Professor

Session-2023-24, Class- BA I (1st sem)(NEP-2020)

Subject: Environmental Studies (VAC)

**Lesson Plan**

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| **Sr. No.** | **Week** | **Dated** | **Topic** |
| 1. | 1st & 2nd | 24/07 to 05/08/23 | Introduction to environmental Studies |
| 2. | 3rd & 4th | 07/08 to 19/08/23 | Ecosystems |
| 3. | 5th & 6th | 21/08 to 02/09/23 | Natural Resourses  Assignments |
| 4. | 7th & 8th | 04/09 to 16/09/23 | Environmental Pollution |
| 5. | 9th & 10th | 18/09 to 30/09/23 | Climate Changes |
| 6. | 11th & 12th | 02/10 to 14/10/23 | Global Warming  Internal Test |
| 7. | 13th & 14th | 16/10 to 28/10/23 | Environmental Policies and Practices |
| 8. | 15th & 16th | 30/10 to 11/11/23 | Population and Environment |
| 9. | 17th & 18th | 13/11 to 25/11/23 | Disaster Management |
| 10. | 19th & 20th | 27/11 to 14/12/23 | Environmental Ethics |

Teacher’s Sign

Govt. College, Alewa

Department of Mathematics

Dr. Sonu Jangra, Assistant Professor

Session-2023-24, Class- BA/B.Sc.II (3rd sem)

Subject: Partial Differential Equations

**Lesson Plan**

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| **Sr. No.** | **Week** | **Dated** | **Topic** |
| 1. | 1st & 2nd | 24/07 to 05/08/23 | Formation of Partial Differential Equations |
| 2. | 3rd & 4th | 07/08 to 19/08/23 | First Order Linear Partial Differential Equations |
| 3. | 5th & 6th | 21/08 to 02/09/23 | First Order Non Linear Partial Differential Equations  Assignments |
| 4. | 7th & 8th | 04/09 to 16/09/23 | Linear Partial Differential Equations of Second and Higher Orders |
| 5. | 9th & 10th | 18/09 to 30/09/23 | Partial Differential Equations with variable Coefficients Reducible to Equations with Constant Coefficients |
| 6. | 11th & 12th | 02/10 to 14/10/23 | Classification and Canonical Forms of Second Oreder Linear Partial Differential Equations  Internal Test |
| 7. | 13th & 14th | 16/10 to 28/10/23 | Monge’s Method for Partial Differential Equations of Second Oreder |
| 8. | 15th & 16th | 30/10 to 11/11/23 | Characteristics of Second Oreder Partial Differential Equations |
| 9. | 17th & 18th | 13/11 to 25/11/23 | Cauchy’s Problem |
| 10. | 19th & 20th | 27/11 to 14/12/23 | Method of Separation of Variables:  Wave, Heat and Laplace Equations |

Teacher’s Sign

Govt. College, Alewa

Department of Mathematics

Dr. Sonu Jangra, Assistant Professor

Session-2023-24, Class- BA/B.Sc.II (3rd sem)

Subject: Advanced Calculus

**Lesson Plan**

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| **Sr. No.** | **Week** | **Dated** | **Topic** |
| 1. | 1st & 2nd | 24/07 to 05/08/23 | Continuous Functions |
| 2. | 3rd & 4th | 07/08 to 19/08/23 | The Derivative and Mean Values Theorems |
| 3. | 5th & 6th | 21/08 to 02/09/23 | Indeterminate Forms  Assignments |
| 4. | 7th & 8th | 04/09 to 16/09/23 | Limit and Continuity of Functions of Two Variables |
| 5. | 9th & 10th | 18/09 to 30/09/23 | Partial Differentiation, Differentiability of Functions of Two Variables |
| 6. | 11th & 12th | 02/10 to 14/10/23 | Maximum and Minimum of a Function of two Variables  Internal Test |
| 7. | 13th & 14th | 16/10 to 28/10/23 | Curves in Space, Circle of Curvature |
| 8. | 15th & 16th | 30/10 to 11/11/23 | Spherical Curvature |
| 9. | 17th & 18th | 13/11 to 25/11/23 | Involutes and Evolutes |
| 10. | 19th & 20th | 27/11 to 14/12/23 | Concept of a Surface and Envelopes |

Teacher’s Sign

Govt. College, Alewa

Department of Mathematics

Dr. Sonu Jangra, Assistant Professor

Session-2023-24, Class- BA/B.Sc.III (5th sem)

Subject: Groups and Rings

**Lesson Plan**

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| **Sr. No.** | **Week** | **Dated** | **Topic** |
| 1. | 1st & 2nd | 24/07 to 05/08/23 | Groups and Subgroups |
| 2. | 3rd & 4th | 07/08 to 19/08/23 | Cosets  Assignments |
| 3. | 5th & 6th | 21/08 to 02/09/23 | Homomorphisms and Automorphisms |
| 4. | 7th & 8th | 04/09 to 16/09/23 | Permutations Groups  Assignments |
| 5. | 9th & 10th | 18/09 to 30/09/23 | Rings and Fields |
| 6. | 11th & 12th | 02/10 to 14/10/23 | Ideals Rings |
| 7. | 13th & 14th | 16/10 to 28/10/23 | Quotient Rings  Internal Test |
| 8. | 15th & 16th | 30/10 to 11/11/23 | Homomorphisms of Rings |
| 9. | 17th & 18th | 13/11 to 25/11/23 | Euclidean Rings |
| 10 | 19th & 20th | 27/11 to 14/12/23 | Polynomial Rings  Assignments |

Teacher’s Sign