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 ResoursesAssignments |
| 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 WarmingInternal 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 EquationsInternal 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 FormsAssignments |
| 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 VariablesInternal 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 | CosetsAssignments |
| 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 RingsInternal 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 RingsAssignments |

 Teacher’s Sign