**Government College for Women, Bawani Khera (Bhiwani**)

**Department of Geography**

**Academic year: 2023-24**

Paper Title: **Climatology**  Marks allotted: 75

Paper Code: 20 UGEO 601 Internal Assessment: 15

External Examination: 60

Class: **BA 3rd Year** Semester: **6th** Section-**A**

Name: **Amit Kumar**

Objectives of Teaching the Paper: To provide comprehensive understanding of weather, climate, atmosphere structure, its evolution, global circulation of winds and associated climatic phenomena, climatic classification, dynamics of global climates and climate change.

**Lesson Plan**

Months: February, 2024

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| Week | Topic |
| Week 1 01.02.2024 to 03.02.2024 | Climatology: Nature and Scope  Climate and Weather |
| Week 2  05.02.2024 to 10.02.2024 | Elements of Climate  Factors Affecting Climate  Importance of Climatology |
| Week 3  12.02.2024 to 17.02.2024 | Composition of Atmosphere  Structure of Atmosphere |
| Week 4  19.02.2024 to 24.02.2024 | Atmospheric Temperature:  Factors Affecting Air Temperature  Vertical Distribution of Temperature  Inversion of Temperature  Horizontal Distribution of Temperature |
| Week 5  26.02.2024 to 02.03.2024 | Atmospheric Pressure and Pressure Belts  Wind Distribution  Factors Affecting Wind Speed and Direction |

Months: March, 2024

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| Week | Topic |
| Week 1  04.03.2024 to 09.03.2024 | Atmospheric Moisture: Humidity, Evaporation and Forms of Condensation |
| Week 2  11.03.2024 to 16.03.2024 | Types of Precipitation  Factors Affecting Precipitation  World Patterns of Rainfall. |
| Week 3  18.03.2024 to 22-03.2024 | Unit Test and Assignment- - I & II  Air masses: Concepts and Classification |
| Week 4  23.03.2024 to 31.03.2024 | Holi Vacation |

Months: April, 2024

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| Week | Topic |
| Week 1  01.04.2024 to 06.03.2024 | Atmospheric Disturbances  Temperate Cyclones |
| Week 2  08.04.2024 to 13.03.2024 | Tropical Cyclones and Anticyclones. |
| Week 3  15.04.2024 to 20.03.2024 | Climatic Regions;  Climatic Classification of Koppen |
| Week 4  22.04.2024 to 27.03.2024 | Climatic Classification of Thornthwaite |
| Week 5  29.04.2024 to 04.05.2024 | Climate Changes and Global Warming: Evidences, Causes, Consequences and Measure of its Control. |

Months: May, 2023

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| Week | Topic |
| Week 1 | Unit Test and Assignment- IV  Revision |