**SHYAMA PRASAD MUKHERJI COLLEGE FOR WOMEN**

**LESSON PLAN: AUGUST 2022 TO DECEMBER 2022**

**Name of Faculty: Shashank K. Singh**

**Course: B A (Honours) Geography, Semester: III**

**Name of the Paper: Climatology (Core)**

**Taught individually or shared: Shared with Dr. Rachna Dua**

**Faculty: Mr. Shashank K. Singh**

**Number of classes per week: 5 classes**

**Allotted Classes per week: 1 class**

**Name of the Unit: Atmospheric Moisture: Evaporation, Humidity, Condensation, Fog and Clouds, Precipitation Types, Stability, and Instability.**

**Topics to be covered:**

1. Evaporation, Transpiration, and Evapotranspiration (3-4 classes, 1st week of September to 3rd week of September)
2. Humidity and its types (2-3 classes, Last week of September to 1st week of October)
3. Condensation (2-3 classes, 2nd week of October to last week of October)
4. Clouds and its Classification (3-4 classes, 1st week of November to 3rd week of November)
5. Types of Fog (1-2 classes, Last week of November)
6. Precipitation (1-2 classes, 1st week of December)

* Forms of Precipitation
* Precipitation Types

1. Stability and Instability (1-2 classes, 2nd week of December)

**The objective of the Course**:

The primary goal concerned with the teaching of this paper is to identify, demarcate, and find the origin, causes, and processes of different climatic phenomena. It will help the students to understand the causes of different climatic phenomena which they see in their day-to-day life and it will also equip them to deal with any type of questions in their undergraduate courses and other competitive examinations.

**Readings/Reference Texts:**

1. Barry R. G. and Corley R. J., 1998: Atmosphere, Weather and Climate, Routledge, New York.

2. Critchfield H. J., 1987: General Climatology, Prentice-Hall of India, New Delhi

3. Lutgens F. K., Tarbuck E. J. and Tasa D., 2009: The Atmosphere: An Introduction to Meteorology, Prentice-Hall, Englewood Cliffs, New Jersey.

4. Oliver J. E. and Hidore J. J., 2002: Climatology: An Atmospheric Science, Pearson Education, New Delhi.

5. Trewartha G. T. and Horne L. H., 1980: An Introduction to Climate, McGraw-Hill.

6. Lal, D S (2006): Jalvayu Vigyan, Prayag Pustak Bhavan, Allahabad

7. Vatal, M (1986): Bhautik Bhugol, Central Book Depot, Allahabad

8. Singh, S (2009): Jalvayu Vigyan, Prayag Pustak Bhawan, Allahabad

**Additional Readings:**

1. Gupta, L.S. (2000). JalvayuVigyan(Hindi) ,Delhi, India: Madhyam Karyanvay Nidishalya

2. Lutgens, F. K. Tarbuck E. J. and Tasa D., (2009). The Atmosphere: An Introduction to Meteorology. Englewood Cliffs, New Jersey, USA: Prentice-Hall.

3. Singh, M. Singh, R.B. and Hassan, M.I. (Eds.). (2014). Climate Change and Biodiversity. Proceedings of IGU Rohtak Conference, Volume 2. Advances in Geographical and Environmental Studies, Springer.

**E- resources**

* 1. <https://www.insightsonindia.com/world-geography/physical-geography-of-the-world/climatology/>
  2. <https://archive.org/details/climatology-books/BrISL-04_Weather_and_Climate/>
  3. <https://www.imdpune.gov.in/training/training%20notes/Climatology-IMTC.pdf>
  4. <https://www.pdfdrive.com/climatology-books.html>
  5. <https://www.researchgate.net/publication/259558094_General_Climatology>

**Number of classes required**: 14-16 classes

**Methodology of Teaching:** PowerPoint presentation, Interactive Lectures, Thorough discussion, and illustrations with the help of the map.

**Criteria of Assessment:**

* Class Tests
* Assignments

**Tentative Dates Tests and Assignment**

Assignment- It will be assigned in the last week of September- 2022.

Class test –To be conducted in the 1st or 2nd week of November.