



ShriVaishnavVidyapeethVishwavidyalaya
ShriVaishnav Institute of Agriculture, Indore

Generic Elective Course

SEMESTER-II

EVALUATION SCHEME

S. No.	Course Code	Course Name	Theory				Practical			Credit		Total Marks
			End Sem University Exam	Mid Term Exam	Teachers Assessment*	End Sem University Exam	Teachers Assessment*	Theory	Practical	Sub total	Total	
1	AGGE202	Introduction to Agricultural Meteorology	60	20	20	00	00	4	0	4	100	
									Total	4	4	100

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(Prof. VinodDhar)
Chairperson
Board of Studies
SVI Ag, SVVV, Indore (M.P.)

Handwritten signature

(Dr. K. N. Guruprasad)
Dean
Faculty of Agriculture
SVVV, Indore (M.P.)

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(Dr. Shishir Jain)
Controller of Examination
SVVV, Indore (M.P.)

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(Dr. Arvind Singh)
Registrar
SVVV, Indore (M.P.)

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21.1.2025

(Prof. (Dr.) UpinderDhar)
Vice Chancellor
SVVV, Indore (M.P.)



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Legends: L - Lecture; P – Practical; C-Credit;

***Teacher Assessment shall** be based on following components: Quiz / Assignment / Project / Participation in Class.

Course Objective: Basic knowledge of Agricultural Meteorology in relation to agriculture

Course Outcomes:

1. Students know about Concept of agricultural meteorology
2. Students know about weather parameters

Unit-1

Meaning and scope of agricultural meteorology, Earth atmosphere- its composition, extent and structure; Atmospheric weather variables; Atmospheric pressure, its variation with height; Wind, types of wind, daily and seasonal variation of wind speed, cyclone, anticyclone, land breeze and sea breeze;

Unit-2

Weather and climate, Factors affecting on climate. Nature and properties of solar radiation, solar constant, depletion of solar radiation, short wave, long wave and thermal radiation, net radiation, albedo; Atmospheric temperature, temperature inversion, lapse rate, daily and seasonal variations of temperature, vertical profile of temperature, Energy balance of earth;

Unit-3

Atmospheric humidity, concept of saturation, vapor pressure, process of condensation, formation of dew, fog, mist, frost, cloud; Precipitation, process of precipitation, types of precipitation such as rain, snow, sleet, and hail, cloud formation and classification; Artificial rainmaking.

Unit-4

Monsoon- mechanism and importance in Indian agriculture, Weather hazards - drought, floods, frost, tropical cyclones and extreme weather conditions such as heat wave and cold wave. Agriculture and weather relations; Modifications of crop microclimate, climatic normals for crop and livestock production.

Unit-5

Weather forecasting - types of weather forecast and their uses .Climate change, climatic variability, global-warming, causes of climate change and its impact on regional and national Agriculture.

Reference Books

- 1) Agricultural Meteorology- G.S.L.H.V. Prasada Rao, Kerala Agricultural University Publications.
- 2) Text book of Agricultural Meteorology – M. C. Varshneya and P. Balkrishna Pillai.
- 3) Introduction to Agro-meteorology- H. S. Mavi
- 4) Atmosphere, weather and climate – Barry R. G. and Charley R. J. The English Language Book Society and Mathuen and Co. Ltd., Sultolk.



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- 5) Climate, weather and crops in India – D. Lenka.
6) Fundamentals of Meteorology – S. R. Ghadekar
7) Basic Principles of Agricultural meteorology, B.S. Publications, Koti, Hyderabad. Radha
Krishna Murthy, V.

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