

AGRICULTURE SYLLABUS

SEMESTER – I

Paper – I

Part-II: AGRONOMY

- Unit – I Principles of Agronomy
1. Definition & Scope of agronomy.
 2. Meteorology and agro-climatic zone
 - a. Components of Weather
 - b. Measurement of components of weather
 - c. Weather forecasting
 - d. Weather Disaster Management methods
 - e. Agro-climatic zones of India and Andhra Pradesh
- Unit – II Dry Farming and Water Management
- a. Dimension of Dry Farming
 - b. Problems and Management of dry farming
 - c. Water resources and their management
 - d. Critical periods and Irrigation methods
- Unit – III Production of pulses
- Importance, origin, distribution, climate, variation, soil, practices, manuring, irrigation, Plant protection, harvesting and processing of the following crops:
- a. Bengal gram
 - b. Red gram
 - c. Black gram
 - d. Green gram
 - e. Horse gram
- Unit – IV Production of cereals
- Importance, origin, distribution, climate, variation, soil, practices, manuring, irrigation, Plant protection, harvesting and processing of the following crops:
- a. Paddy
 - b. Wheat
 - c. Maize
- Unit – V Weeds & Weed management of crops
- a. Classification & Identification of weeds
 - b. Integrated weed management

Practical Syllabus – I

1. Identification and use of the following weather measurement apparatus.
 - a. Minimum – Maximum Thermometer
 - b. Rain gauge
 - c. Anemometer
 - d. Sunshine recorder
 - e. Evaporation pan
2. Study of water distribution system and problems on water use efficiency measurement.
3. Field study of Sprinkler, Drip and Open furrow irrigation methods.
4. Field visit Agro-Meteorological observatory of [ANGRAU at Bapatla / Lam Farm/ Darsi and of A.P. State department at every mandalHead quarters].
[Stevensen screen and automated weather station]
5. Identification of varieties of cereals & pulses
6. Identification of weeds and herbicides by observing physical properties.

**I B.Sc., Agriculture
Paper – I – Agronomy
(Theory)**

Time: 3 hours

Max. Marks. 75

SECTION – A (Short Answer Questions)

[Instructions to the Paper Setter : Set minimum ONE question from each Unit,
maximum EIGHT from all]

Answer **FIVE** of the following questions

5 X 5 = 25 marks

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.

SECTION – B (Essay Questions)

[Instructions to the Paper Setter : Set minimum TWO question
from each Unit either / or internal choice]

Answer **ALL** of the following questions

5 X 10 = 50 marks

9. (a) or } from Unit I
 (b) }

10. (a) or } from Unit II
 (b) }

11. (a) or } from Unit III
 (b) }

12. (a) or } from Unit IV
 (b) }

13. (a) or } from Unit V
 (b) }

Internal Marks

- 25 Marks

15 Marks for mid exams, 5 marks for assignments and remaining 5 marks for seminar etc.,