AGRO 101 - PRINCIPLES OF AGRONOMY AND AGRICULTURAL METEOROLOGY

- Agriculture Definition Importance and scope Branches of agriculture -Evolution of man and agriculture – Development of scientific agriculture - National and International Agricultural Research Institutes.
- 2. Indian agriculture Indian economy National income per capita income Agricultural income in GDP Women in agriculture and empowerment
- 3. History of agricultural development in the world and India. Agriculture heritage Agriculture in ancient India
- 4. Stages of agriculture development Era of civilization- Importance of Neolithic civilization
- 5. Chronology of Agricultural technology development in India
- 6. Kautilya's Arthasasthra Sangam literature rainfall prediction ITK -Tamil Almanac.
- Agronomy definition meaning and scope. Agro-climatic zones of India and Tamil Nadu – Agro ecological zones of India
- 8. Crops and major soils Classification Economic and agricultural importance in India and Tamil Nadu
- 9. Factors affecting crop production climatic edaphic biotic- physiographic and socio economic factors
- 10. Tillage Definition objectives types of tillage modern concepts of tillage main field preparation
- 11. Seeds Seed rate Sowing methods Germination Crop stand establishment -Planting geometry
- Role of manures and fertilizers in crop production agronomic interventions for enhancing FUE - Inter cultivation - Thinning - Gap filling and other intercultural operations
- 13. Irrigation Time and methods Modern techniques of irrigation Drainage and its importance
- 14. Planting Geometry and its Effect on Growth and Yield
- 15. Cropping pattern and cropping system Intensive cropping- Sustainable agriculture IFS
- 16. Organic / eco-friendly agriculture Dry farming Concepts and principles
- 17. Agro-climatic zones of India
- 18. Agro meteorology
- 19. Weather and climate, micro-climate
- 20. Weather elements and their influence on different crops
- 21. Monsoon
- 22. Clouds
- 23. Weather aberrations
- 24. Weather forecasting
- 25. Weather modification -Artificial rain making and cloud seeding
- 26. Remote sensing.