## AGRO 103 - WATER MANAGEMENT INCLUDING MICRO IRRIGATION (2+1)

- 01. DEVELOPMENT OF IRRIGATION IN INDIA WATER RESOURCES, IRRIGATION POTENTIAL AND IRRIGATION SYSTEMS OF INDIA AND TAMIL NADU
- 02. ROLE OF WATER IN PLANT GROWTH HYDROLOGICAL CYCLE WATER IN SOIL PLANT ATMOSPHERE CONTINUUM ABSORPTION OF WATER AND EVAPOTRANSPIRATION
- 03. SOIL WATER MOVEMENT SATURATED AND UNSATURATED FLOW AND VAPOUR MOVEMENT SOIL MOISTURE CONSTANTS AND THEIR IMPORTANCE IN IRRIGATION
- 04. SOIL MOISTURE MEASUREMENT
- 05. MOISTURE EXTRACTION PATTERN OF CROPS- SOIL MOISTURE STRESS PLANT WATER STRESS -EFFECTS ON CROP GROWTH
- 06. CROP WATER REQUIREMENT POTENTIAL EVAPOTRANSPIRATION (PET) AND CONSUMPTIVE USE- FACTORS AFFECTING CROP WATER REQUIREMENT CRITICAL STAGES WATER REQUIREMENT OF DIFFERENT CROPS
- 07. Water requirement for different crops: *Irrigation schedules for field crops*
- 08. WATER BUDGETING AND ITS IMPORTANCE IRRIGATION SCHEDULING APPROACHES
- 09. WATER USE EFFICIENCY (WUE) & INDICES
- 10. AGRONOMIC PRACTICES FOR USE OF PROBLEM WATER SALINE, EFFLUENT, SEWAGE WATER
- 11. WATER MANAGEMENT FOR PROBLEM SOILS
- 12. Water Management Technology Options for Non-Rice Crops
- 13. COMMAND AREA DEVELOPMENT- CONTINGENT CROP PLAN IN MAJOR IRRIGATION PROJECTS OF TAMIL NADU DRAINAGE IMPORTANCE AND METHODS
- 14 WATER LOGGING AND FIELD DRAINAGE
- 15. DRIP IRRIGATION AND FERTIGATION
- 16. SPRINKLER IRRIGATION

## 17. PLASTIC MULCHING FOR CROP PRODUCTION

18 & 19. METHODS OF IRRIGATION - SUITABILITY, ADVANTAGES AND LIMITATIONS