

AGRI 122 Crop Production Technology (*Kharif* and Rabi Crops) Credit hours (2+1=3)

Theory

Origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield of *Kharif* crops. Cereals: Rice, Maize, Sorghum, Pearl millet, Wheat, Pulses: Pigeon pea, Green gram, Black gram, Chick pea and Cluster bean, Oilseeds: Groundnut, Castor, Sesame, Rapeseed, Mustard, Sunflower and Soybean; Fiber crop: Cotton; Sugar crop: Sugarcane; Forage crops: Sorghum, Cowpea and Napier hybrid and Fodder maize; Cash crop: Tobacco, Green manure Crops: Sunhemp and Dhaincha.

Practical

1. Identification of crops and seed
2. Field lay-out of different method of rice nursery including /SRI
3. Seed treatment and sowing methods of major crops
4. Effect of seed size on germination and seedling vigour of *kharif* and rabi crops.
5. Effect of sowing depth and methods on germination crops,
- 6 To study various methods of fertilizer application.
7. Study of growth and yield contributing characters
8. Visit to the agronomic and forage experiments
9. Numerical exercises on fertilizer, seed requirement and plant population
10. To work out the cost of cultivation
11. Judging the maturity and harvesting techniques