

# 21AGRO302 PRACTICAL CROP PRODUCTION

Hours Per Week :

L	T	P	C
-	-	2	1

Total Hours :

L	T	P
-	-	30

## Course Description and Objectives:

Aim of this course is to provide students with hands on experience on all aspects of crop production from land preparation to harvest and marketing

## Course Outcomes:

Upon completion of the course, the student will be able to achieve the following outcomes:

COs	Course Outcomes
1	Gain knowledge about scientific crop production technologies to practice profitable crop production
2	Able to design and implement farming systems for various situations including contingency plans
3	Learn about preparation of balance sheet including cost of cultivation, net returns

## SKILLS:

- ✓ *Develop profitable crop production technologies*
- ✓ *Calculate cost benefit ratios*
- ✓ *Handling of animal drawn and tractor drawn implements used for crop production*
- ✓ *Seed bed preparation, primary, secondary and inter cultivation operations*



Source:

<https://images.app.goo.gl/Arwd6fGvTcyu4vcQ8>

**ACTIVITIES:**

- o *Preparation of seed bed and involved in sowing and transplanting methods*
- o *Practice different cropping systems*
- o *Calculate seed rate, manures and fertilizer dosage and crop water requirement*
- o *Prepare economics of different crops*

**LABORATORY EXPERIMENTS****LIST OF EXPERIMENTS**

1. Crop planning (preparation of cropping scheme)
2. Field preparation- Raising field crops in different cropping systems
3. Seed treatment, nursery raising, sowing of field crops in different cropping systems
4. Nutrient management in different field crops
5. Weed management in different field crops
6. Management of the pests and diseases
7. Scheduling of irrigation to different crops
8. Biometric observations in different crops
9. Contingent crop planning and mid season correction
10. Mechanization in different crops
11. Roughing and other aspects of seed production
12. Yield attributes and estimation of yield in different field crops
13. Harvesting and recording of yield; Post harvest operations in different field crops
14. Assessment of gaps in achieving the targeted yield
15. Economic analysis and preparation of balance sheet