

21AGRO202 CROP PRODUCTION TECHNOLOGY - II (OILSEEDS, FIBRE, SUGAR, TOBACCO AND FODDER CROPS)

Hours Per Week :

L	T	P	C
2	-	2	3

Total Hours :

L	T	P
30	-	30

COURSE DESCRIPTION AND OBJECTIVES:

The aim of this course is to provide knowledge in the production of oilseeds, fibre, sugar, tobacco and fodder crops and skills to implement them

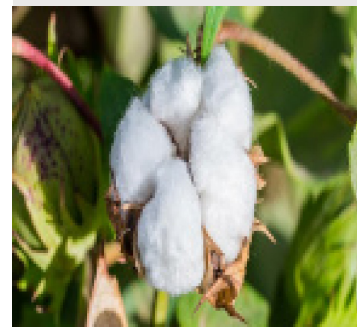
COURSE OUTCOMES:

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

COs	Course Outcomes
1	Acquire required knowledge in crop production technologies of different oilseeds, fibre, sugar, tobacco and fodder crops to empower the farmer with the latest production technologies
2	Able to practice and promote the production of different oilseeds, fibre, sugar, tobacco and fodder crops
3	Know about the crop varieties suited for different zone

SKILLS:

- ✓ Practice ploughing, tillage and other agricultural operations
- ✓ Practice weeding, fertilizer application, irrigation and pest management practices
- ✓ Calculate Cost Benefit Ratios (CBR) for different crops
- ✓ Record biometric observations and yield parameters of Oilseeds, Cotton, Sugarcane, Tobacco and Fodder crops



Source :

<http://www.businessworld.in/article/CAI-Lowers-Cotton-Production-Estimate-For-2020-21->

ACTIVITIES:

- o *Sowing of Oilseeds, Cotton, Sugarcane & Fodder crops*
- o *Maintenance of tobacco nursery and transplanting activities*
- o *Prepare layout for crop cafeteria*
- o *Calculate economics of Oilseeds, Cotton, Sugarcane, Tobacco & Fodder crops*
- o *Visit research stations related to Oilseeds, Cotton, Sugarcane, Tobacco & Fodder crops*

UNIT - 1

Introduction: Origin, geographical distribution, economic importance, soil and climatic requirements

UNIT - 2

Varieties and Yield: Varieties, cultural practices and yield of oil seeds, fibre, sugar, tobacco and fodder crops

UNIT - 3

Oilseeds: Oilseeds, groundnut, sesamum, soybean, rapeseed, mustard, sunflower, safflower, castor, linseed and niger

UNIT - 4

Fibre Crops and Sugar Crops: Fibre crops, cotton, jute, mesta, sugar crops, sugarcane, sugar beet, other crops, potato, tobacco

UNIT - 5

Forage and Other Crops: Forage crops, sorghum, cowpea, cluster bean, napier, maize, lucerne, berseem and oat

LABORATORY EXPERIMENTS**LIST OF EXPERIMENTS**

1. Land preparation and layout of plots
2. Sowing methods of sugarcane
3. Sowing of oil seeds, fibre, sugar crops and fodder crops
4. Identification of plant characteristics of oilseeds, fibre, sugar crops and fodder crops
5. Recording of yield contributing characters (biometric observations) of oilseeds, fibre, sugar crops and fodder crops
6. Yield and juice quality analysis of sugarcane
7. Visit to agronomic experiments of Oilseeds, fibre, sugar crops and fodder crops at experimental farms
8. Visit to forage experiments. Hay and silage making
9. Visit to research stations of related crops
10. Raising of tobacco nursery
11. Visit to related agro-based industries
12. Visit to nearby farmers' fields
13. Visit to nearby processing units
14. Study of quality parameters of mesta and tobacco
15. Collection of post-harvest data on the crop

REFERENCES:

1. Reddy, S.R. and ReddiRamu. 5th edition, 2016. Agronomy of field crops. Kalyani publishers, Ludhiana
2. Chidda Singh, Singh, P and Singh, R. 2003. Modern techniques of raising field crops. Oxford & IBH Publishing house, New Delhi
3. Rajendra Prasad, 2004. Text book of field crops production. Commercial crops, volume-II , Technical Editor, ICAR, New Delhi
4. Panda S.C.2014. Agronomy of fodder and forage crops, Kalyani publishers, Ludhiana

