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Agron-311

Practical Crop Production-I (Kharif Crops)

2(0+2)

Practical

Crop planning, raising field crops in multiple cropping systems: Field preparation, seed, treatment, nursery raising, sowing, nutrient, water and weed management and management of insect-pests diseases of crops, harvesting, threshing, drying winnowing, storage and marketing of produce. The emphasis will be given to seed production, mechanization, resource conservation and integrated nutrient, insect-pest and disease management technologies. Preparation of balance sheet including cost of cultivation, net returns per student as well as per team of 8-10 students.

Lecture schedule: Practical

S.No.	Topic	No. of lectures
1.	Introduction of the course, crop planning and allotment of field	2
2.	Field preparation, application of manures and fertilizers	2
3.	Selection of crop and varieties, seed treatment and sowing	2
4.	Sowing of crops.	2
5.	Observation of germination	2
6.	Thinning and gap filling	2
7.	Intercultural operations-hoeing and weeding	2
8.	Intercultural operations-hoeing and weeding	2
9.	Water management- application of irrigation water and demonstrating methods of irrigation	2
10.	Top dressing of fertilizer (urea).	2
11.	Insect and pest management (control)- application of insecticides	2
12.	Disease management (control)- application of fungicides	2
13.	Harvesting	2
14.	Threshing, winnowing and storage	2
15.	Marketing of produce	2

16.	Preparation of balance sheet including estimating cost of cultivation and net return per student as well as per team of a group of student	2
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References:

1. Yawalkar, K.S., Agarwal, J.P. and Bokde, S. 2008. Manures and Fertilizers (10th edition), Agri-Horticultural Publishing House, Nagpur.
2. Balasubramaniyan, P. and Palaniappan, S.P. 2016. Principles and Practices of Agronomy Agrobios (India), Jodhpur.
3. Reddy, S. R., 2016. Principles of Agronomy (5th edition), Kalyani Publishers, Ludhiana.
4. Singh, S.S. and Singh, Rajesh. 2015. Principles and Practices of Agronomy (5th Re-set), Kalyani Publishers, New Delhi, Kalyani Publishers, Ludhiana.

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