

Lesson Plan

Name of Faculty: Aman

Discipline: Agriculture Engg.

Semester: 3rd

Subject: Crop Production

Lesson Plan Duration: 15 weeks

Work load (lecture/practical) per week (in hours): Lecture: 05, Practical 06

Week	Theory		Practical	
	Lecture Day	Topic (including assignment/ test)	Practical Day	Topic
1st	1	Agriculture, importance of agriculture.	1st Week	Identification of crops and their seeds.
	2	Crop production Art, Science and business.		
	3	Factors affecting crop production viz. Internal and external factors.		
	4	Classification of crops based on their utility and seasons of growing.		
2nd	5	Major and principal crops of the country and Haryana state.	2nd Week	Identification of different types of fertilizers.
	6	Revision of previous chapter.		
	7	Crop rotation, Principles of crop rotation.		
	8	Advantages of crop rotation and rotational-intensity.		
3rd	9	Cropping scheme and principles of cropping scheme.	3rd Week	Identification of different crop weeds and methods of weed control.
	10	Cropping intensity. Systems of cropping viz. mixed cropping and intensive cropping.		
	11	Principles of mixed cropping and its advantages.		
	12	Pre-requisites of intensive cropping		
4th	13	Methods of intensive cropping viz. multiple & intercropping.	4th Week	Checking of practical.
	14	Crop diversification.		
	15	Revision and solving problems.		
	16	Tillage, definition, function and importance of tillage.		
5th	17	Types and methods of tillage.	5th Week	Practices of fertilizer application.
	18	Effect of tillage on the soil characteristics and nutrient availability in soil.		
	19	Revision of previous chapters.		
	20	Characteristics of good seed.		
6th	21	Types of seeds viz. Breeder's, Nucleus, and Foundation and Certified seeds.	6th Week	Methods of seed bed preparation.
	22	Seed treatment. Factors affecting seed germination		
	23	Different methods of seed placement in the soil.		
	24	Revision of sowing of seed chapter.		
7th	25	Importance of water for plants, necessity of water application.	7th Week	Methods of sowing/planting.
	26	Critical stages (growth) of water application. Sources of irrigation water.		
	27	Sources of irrigation water.		
	28	Methods of irrigation (names only). Factors affecting selection of method viz. crop, soil, source of water.		
8th	29	Importance of intercultural operations in crop productions.	8th Week	Checking of practical.
	30	Introduction with the methods, tools and equipment required for intercultural.		
	31	Weed, classification, useful and harmful effects.		
	32	Methods of weed control viz. mechanical, biological, agronomical (crop competition and rotation), firing and chemical.		
9th	33	Revision of previous chapter	9th Week	Visits to the mechanized/modernized farms of agricultural universities. Center state
	34	Plant nutrient elements and their classification.		
	35	Viz. Macro, Secondary & Micro and their importance.		
	36	Soil fertility, Types of Fertilizers		
10th	37	Manners used to maintain soil fertility.	10th Week	Study of vermicomposting and visits to agriculture farms.
	38	Methods of application of fertilizers		
	39	Tips for safe storage and better handling of fertilizers.		
	40	Organic fertilizers and their advantage.		
11th	41	Various factors/agents causing damage to the crop viz. Pests, Diseases etc.	11th Week	Checking of practical.
	42	Introduction with the ecofriendly pest- management practices		
	43	Chemicals used for control of diseases, bio-pesticides.		
	44	Revision of plant protection chapter.		
12th	45	Various methods of harvesting of different crops.	12th Week	Estimation of different entities required for crop production and estimation of yield of crops.
	46	Factors affecting harvesting viz. time of maturity, moisture contents, climates factors etc.		
	47	Revision of previous chapter.		
	48	Problems discussion of harvesting chapter.		
13th	49	Package of practices/cultivation details	13th Week	Checking of practical.
	50	Important modern techniques for raising following crops: - Wheat, Paddy, Maize grown in Haryana.		
	51	Gram, Mustard, Cotton, grown in Haryana.		
	52	Revision of last chapter.		
14th	53	Revision of 1st and 2nd chapter.	14th Week	Identification of different diseases and insect-pests of major field crops.
	54	Revision of 3rd and 4th chapter		
	55	Revision of 5th and 6th chapter.		
	56	Revision of 7th and 8th chapter		
15th	57	Revision of 9th and 10th chapter.	15th Week	Checking of practical.
	58	Problem discussion related to subject.		
	59	Problem discussion related to subject.		
	60	Problems discussion related to subject.		