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AGRON-222 Crop Production Technology-II (Rabi crops)

2(1+1)

Theory

Origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield of *Rabi* crops; cereals –wheat and barley ;oilseeds-rapeseed, mustard and sunflower; pulses-chickpea, lentil, peas, sugar crops-sugarcane; Forage crops- lucerne and oat; package of practices of berseem ,safflower sugarbeet, opium poppy taramira, linseed; medicinal and aromatic crops-mentha, lemon grass and citronella,.

Practical

Sowing of rabi crops and their identification , identification of weeds in *rabi* season crops, study of morphological characteristics of *rabi* crops, study of yield contributing characters of *rabi* season crops, yield and juice quality analysis of sugarcane, study of important agronomic experiments of *rabi* crops at experimental farms. Study of *rabi* forage experiments, oil extraction of medicinal crops, visit to research stations of related crops.

Lecture schedule: Theory

S.N.	Topic	No. of lectures
1.	Wheat- Origin, geographical distribution, economic importance, soil and climatic requirements	1
2.	Wheat- varieties, cultural practices and yield	1
3.	Barley- Origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield	1
4.	Rapeseed and mustard- Origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield	1
5.	Sunflower- Origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield	
6.	Chickpea-Origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield	1
7.	Lentil- Origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield	1

8.	Peas- Origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield	1
9.	Sugarcane- Origin, geographical distribution, economic importance, soil and climatic requirements	1
10.	Sugarcane- varieties, cultural practices and yield	1
11.	Lucerne – Origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield	1
12.	Oat – Origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield	1
13.	Berseem ,Safflower,- package of practices	
14.	Sugarbeet, Opium poppy- package of practices	1
15.	Taramira, Linseed- - package of practices	1
16.	Medicinal and aromatic crops-mentha, lemon grass and citronella	1

Lecture schedule: Practical

S.N.	Topic	No. of lectures
1.	Identification of seeds, crops and other inputs of <i>rabi</i> season	1
2.	Identification of weeds in <i>rabi</i> season crops	1
3.	Seed rate and related numerical	1
4.	Sowing of wheat and planting of sugarcane.	1
5.	Application of herbicides and related numericals.	1
6.	Judging physiological maturity of various crops	1
7.	Fertilizer application in crops and related numerical	1
8.	Morphological difference in wheat, barley and oat, rapeseed and mustard, berseem and lucerne.	1
9.	Judging sugarcane maturity based on brix ratio and related calculation	1
10.	Yield attributing characters, Theoretical yield and related numerical	1
11.	Crop harvesting and related numericals on harvest index.	1
12.	Working out seed index (test weight) and cost of cultivation.	1
13.	Oil extraction of medicinal crops	1
14.	Study of <i>rabi</i> forage experiments	1
15.	Study of important agronomic experiments of <i>rabi</i> crops at experimental farms	1
16.	Visit to research stations of related crops	1

References:

1. Singh, Chhidda, Singh, Prem and Singh, Rajbir.2003. Modern Techniques of Raising Field Crops, Oxford & IBH Publishing Co., New Delhi.
2. Singh, S.S.1998. Crop Management Under Irrigated and Rainfed Conditions. Kalyani Publishers, New Delhi.
3. Panda, S.C.2012. Modern Concepts and Advance Principles in Crop Production. Agrobios (India), Jodhpur
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5. Rathore, P.S. 2000. Techniques and Management of Field Crop Production, Agrobios (India), Jodhpur.
6. Prasad, Rajendra. 2002. Text Book of Field Crops Production, ICAR, New Delhi.
7. ICAR. 2010. Handbook of Agriculture (6th edition), Indian Council of Agricultural Research, New Delhi.
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