

GANPAT UNIVERSITY									
FACULTY OF AGRICULTURE, ALLIED SCIENCES AND TECHNOLOGY									
Programme	B.Sc. (Hons.)				Branch/Spec.	Agriculture			
Semester	IV				Version	1.1.1.0			
Effective from Academic Year		2026-27			Effective for the Batch admitted in			July 2025	
Course Code	2IVA01CPT-II	Course Name			Crop Production Technology-II ( <i>Rabi</i> Crops)				
Teaching Scheme					Examination Scheme (Marks)				
(Per week)	Lecture (DT)		Practical (Lab.)		Total		CE	SEE	Total
	L	TU	P	TW					
Credit	1	0	2	0	3	Theory	40	40	80
Hours	1	0	4	0	5	Practical	20	00	20
Pre-requisites									
Not Applicable									
Course Outcomes									
On successful completion of the course, the students will be able to:									
CO1	To know the Origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield of rabi crops								
CO2	Identify weeds in rabi season crops, Pulses-chickpea, lentil, peas; oilseeds-rapeseed, mustard and sunflower; sugar crops-sugarcane, Medicinal and aromatic crops-mentha, lemon grass and citronella, Forage crops-berseem, lucerne and oat.								
CO3	Through proper knowledge of irrigation scheduling in rabi crops, additional area can be increased of low water requiring crops.								
CO4	Students will be able to know about the economic importance of medicinal and Aromatic crops in the present sphere.								
CO5	It will be helpful to know about basic morphological characteristics of rabi crops.								
Theory Syllabus									
Unit	Content								Hrs.
1	Origin, geographical distribution and economic importance, Soil and climatic requirements, varieties, cultural practices and yield of Rabi crops. Cereals- wheat and barley.								3
2	Origin, geographical distribution and economic importance, Soil and climatic requirements, varieties, cultural practices and yield of Pulses chickpea, lentil, peas. Rabi redgram and, rajmash.								4
3	Origin, geographical distribution and economic importance, Soil and climatic requirements, varieties, cultural practices and yield of Oilseed- rapeseed, mustard, sunflower, safflower; and linseed. Sugar crops-sugarcane and sugar beet.								4
4	Origin, geographical distribution and economic importance, Soil and climatic requirements, varieties, cultural practices and yield of Medicinal and aromatic crops- mentha, lemon grass and citronella. Forage crops –barseem, lucerne and oat; potato, quinoa, tobacco.								4
Practical Content									
<ol style="list-style-type: none"> <li>Sowing methods of wheat and sugarcane;</li> <li>Identification of weeds in rabi season crops;</li> <li>Study of morphological characteristics of rabi crops;</li> <li>Study of yield contributing characters of rabi season crops; yield and juice quality analysis of sugarcane;</li> <li>Study of important agronomic experiments of rabi crops at experimental farms;</li> <li>Study of rabi forage experiments;</li> <li>Oil extraction of medicinal crops;</li> <li>Visit to research stations of related crops.</li> </ol>									
Text Books									
1	Rajendra Prasad. Textbook of Field Crops Production - Commercial Crops. Volume II ICAR Publication.								
Reference Books									
1	S.R. Reddy. 2009. Agronomy of Field Crops. Kalyani Publishers, New Delhi.								
2	S.S. Singh. 2005. Crop Management. Kalyani Publishers, New Delhi.								
3	Reddy, S.R. 2004. Agronomy of Field crops, Kalyani Publishers, Ludhiana.								

Note: Version 1.0.0.0 (First Digit= New syllabus/Revision in Full Syllabus, Second Digit=Revision in Teaching Scheme, Third Digit=Revision in Exam Scheme, Forth Digit= Content Revision)

L=Lecture, TU=Tutorial, P= Practical/Lab., TW= Term work, DT= Direct Teaching, Lab.= Laboratory work  
CE= Continuous Evaluation, SEE= Semester End Examination

	PO1	PO2	PO3	PO4	PO5	PO6	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	1	1	1	1	2	2	3	3	2	2	1	1
CO2	2	3	2	2	2	2	3	3	3	2	3	2
CO3	3	3	3	2	2	1	3	3	2	3	2	2
CO4	2	1	3	3	1	3	2	2	2	2	1	2
CO5	2	1	2	2	1	1	3	2	2	2	1	2
CO6	1	1	1	1	2	2	3	3	2	2	1	1

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