

GANPAT UNIVERSITY									
FACULTY OF AGRICULTURE, ALLIED SCIENCES & TECHNOLOGY									
Programme		B.Sc. (Hons)			Branch/Spec.		Agriculture		
Semester		III			Version		1.1.1.0		
Effective from Academic Year			2026-27		Effective for the batch Admitted in			July 2025	
Subject code		2IIIA01CPT-I		Subject Name		Crop Production Technology-I (<i>Kharif</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	-	3	Theory	40	40	80
Hours	1	0	4	-	5	Practical	20	0	20
Pre-requisites									
Not Applicable									
Course Outcomes									
On successful completion of the course, the students will be able to:									
CO1	Students will be able to know about origin, geographical distribution, and economic importance of kharif crops								
CO2	In the course study the students will be able to know about Soil and climatic requirements, varieties, cultural practices and yield of kharif crops.								
CO3	Analysis of comparative benefits of the different kharif crops								
CO4	Constraints in production of oilseeds and pulses may be identified through course content.								
Theory Syllabus									
Unit	Content								Hrs
1	Origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield of Kharif crops. Cereals- rice, maize, sorghum, pearl millet, finger millet and other minor millets, soybean, sesame, castor								3
2	Origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield of Kharif crops pulses- pigeonpea, mungbean and urdbean; oilseeds groundnut								4
3	Origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield of Kharif crops fibre crops- cotton and jute								4
4	Origin, geographical distribution, economic importance, soil and climatic requirements, varieties, cultural practices and yield of Kharif crops forage crops- sorghum, cowpea, cluster bean, maize, guinea and napier								4
Practical Content									
<ol style="list-style-type: none"> Rice nursery preparation, transplanting of rice. Sowing of soybean, pigeon pea and mungbean, maize, groundnut and cotton. Effect of seed size on germination and seedling vigour of Kharif crops. Effect of sowing depth on germination of Kharif crops. Identification of weeds in Kharif crops, top dressing and foliar feeding of nutrients. Study of yield contributing characters and yield calculation of Kharif crops. Study of crop varieties and important agronomic experiments at experiential farms, recording biometric observations. Study of forage experiments, morphological description of Kharif crops, silage and hay making. Visit to the research station. 									
Reference book									
1. B. Gurarajan, R. Balasubramanian and V. Swaminathan. Recent Strategies on Crop Production. Kalyani Publishers, New Delhi.									

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

2. Chidda Singh.1997. Modern techniques of raising field crops. Oxford and IBH Publishing Co. Pvt. Ltd., New Delhi.
3. Rajendra Prasad. Textbook of Field Crops Production - Commercial Crops. Volume II ICAR Publication.
4. S.R. Reddy. 2009. Agronomy of Field Crops. Kalyani Publishers, New Delhi.
5. S.S. Singh. 2005. Crop Management. Kalyani Publishers, New Delhi.
6. UAS, Bangalore. 2011. Package of Practice. UAS, Bangalore.
7. Subhash Chandra Bose, M. and Balakrishnan, V. 2001. Forage Production. South Asian Publishers, New Delhi.

Mapping of CO with PO and PSO:

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

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