

Course Code UOE028	Course Title
	Post-harvest Technology of Fruits and Vegetables (Open Elective School of Allied Health Sciences)

L	T	P	Credits	Evaluation Scheme			
				Component	Exam	WT (%)	Mini. Passing %
2	0	0	2	Theory	FA	100	40

Course Description:
This course will focus on to develop the knowledge of students on fruit and vegetable, post-harvest management tools different methods of harvesting.

Course Learning Outcome(s)
<i>At the end of this course students will able to:</i>
CLO1 Define ¹ post harvest management.
CLO2 Explain ² Development stages of fruit and vegetable.
CLO3 Implementing ³ different methods of harvesting.
CLO4 Application ⁴ different application for fruit and vegetable Industry.

UNIT	DESCRIPTION	HOURS
I	Introduction to Post-harvest Technology of Fruits and Vegetables: Importance, present status, scope to post harvest management, parts of fruit, botanical classification of fruit and vegetables, Nutritional value: water, carbohydrates, protein, lipid, organic acids, vitamin and minerals.	7
II	Development stages of fruit and vegetable: Introduction to development stages of fruit and vegetable, respiration, respiration drift, RQ transpiration Maturity, of fruits and vegetables, Changes in ripening of fruit, deterioration of fruits & vegetables, primary and secondary causes of losses of fruit and vegetable.	7
III	Harvesting of fruits & vegetables: Introduction, definition, different methods of harvesting, postharvest handling, Post-harvest commodity treatments- pre cooling, waxing, sprout inhibition, disinfestations, fungicide application, hot water treatment, vapor heat treatment, irradiation.	8
IV	Packing house operations: Introduction, dumping (loading and unloading), washing, drying, sorting and grading, commodity treatments, packaging, transportation of fruit and vegetable.	8
# Mode:	<i>Flipped Class Room, Class Discussion, Lectures etc.</i>	
Total engagement hours:		30

Recommended books:

1. A Handbook on Post harvest Management of Fruits and Vegetables P. Jacob John Daya Publishing House, Delhi.
2. Postharvest: An introduction to the physiology and handling of fruit and vegetables, 6th edition Wills R. and Golding J. UNSW Press.
3. Post harvest Technology of Fruits and Vegetables – Vol. 1 Verma L. R. and Joshi V. K. Indus Publishing Company, Delhi