Name of Faculty: MOHIT JINDAL				
Discipline: FOOD TECHNOLOGY				
Semester: 3rd				
Subject: I	Handling,	transportation and storage of foods		
Lesson Plan Duration: 15 Weeks (July 2018-Nov. 2018)				
Work load (Theory/Practical) per week (in hours): Theory: 03, Practical: 02				
Week	Lecture	Theory		
vveek	day			
	1	Introduction to Syllabus and Evaluation Scheme.		
1 st	2	Scope of handling, transportation and storage of food and food		
		products.		
	3	Importance of handling, transportation and storage of food and		
		food products.		
	4	Introduction to Laboratory and its equipments. (Practical)		
2 nd	5	Post harvest losses.		
	6	Revision of unit 1.		
	7	Introduction to Post Harvest Changes in Foods.		
	8	Determination of moisture content of given stored food grain		
	9	sample. (Practical)		
	10	Physiological changes. Chemical Changes.		
3 rd	11	Microbiological Changes.		
3	12	Sampling Techniques of stored foods from different storage		
	12	structures and conditions (Practical)		
	13	Biochemical changes.		
	14	Revision of unit 2 nd .		
4 th	15	Class test for unit 1 st and 2 nd .		
	16	To calculate bulk density. (Practical)		
	17	Introduction to handling, transportation and storage.		
	18	Various unit operations of post-harvest handling, transportation.		
414		which the operations of post har too names, which continues		
5 th	19	Introduction to various conveying systems.		
	20	Analysis of food grain sample for foreign matter. Practical)		
	21	Belt conveyors, chain conveyors- their selection, operation and		
	21	maintenance. Screw conveyors, hydraulic conveyors, pneumatic		
		conveyors- their selection,		
	22	operation and maintenance.		
6 th	23	Vibrating and oscillating conveyors, bucket elevators – their		
		selection, operation and maintenance.		
	24	Demonstration of changes during storage of fresh fruits and		
		vegetables (Practical)		
	25	Revision for unit 3 rd .		
	26	Preparation of grains for storage, Storage requirements.		
7^{th}	27	Infestation control, mycotoxin.		

	28	Determination of changes in pH and acid values in storage of
		milk (Practical)
8 th	29	Handling practices.
	30	Causes of spoilage and their prevention.
	31	Factors affecting quality of grain during storage.
	32	To determine candling and grading of eggs. (Practical)
9 th	33	Types of storage structures and facilities.
	34	Types of storage structures and facilities.
	35	Revision for unit 4 th .
	36	To study procedure of ante-mortem examination of animals. (Practical)
10 th	37	Handling, transportation and storage of fruits and vegetables.
	38	Spoilage and prevention of fruits and vegetables.
	39	Revision of unit 5 th .
	40	Determination of pH and titrable acidity of stored juice
		sample. (Practical)
	41	Pre-slaughter handling and transportation system – their effects on
		quality of meat products
11 th	42	Transportation and storage requirements.
	43	Ante-mortem examination of animals.
	44	To check quality of stored milk. (Practical).
12 th	45	Revision of unit 6 th .
	46	Introduction to milk: Collection, pre-cooling of milk.
12	47	Handling and transportation systems of milk.
	48	To determine candling and grading of eggs. (Practical)
13 th	49	Effects of handling and transportation on quality of milk.
	50	Revision of unit 7 th .
	51	Introduction to eggs processing: Candling and grading of eggs.
	52	To calculate true density. (Practical)
14 th	53	Packaging, handling, pre-treatment of eggs.
	54	Transportation and storage of eggs.
	55	Revision of unit 8 th .
	56	Determination of Titrable acidity of stored juice sample.
		(Practical)
15 th	57	Introduction to cold storage facilities.
	58	Requirements for storage of different fruits and vegetables.
	59	CA and MA Storage. Revision of unit 9 th .
	60	Internal examination of students. (Practical)