Nama of	Foculty: M	IOHIT JINDAL
		FECHNOLOGY
Semester		
		tions in Food Drossesing
		itions in Food Processing
		on: 15 Weeks (July 2018-Nov. 2018)
WORK 10		y/Practical) per week (in hours): Theory: 03, Practical: 02
Week	Lecture	Theory
1 st	day	
	1	Introduction to Syllabus and Evaluation Scheme.
	2	Introduction to preliminary unit operations.
	3	Cleaning- aim, methods and applications.
	4	Introduction to Laboratory and its equipments. (Practical)
	5	Sorting- aim, methods and applications.
2 nd	6	Grading- aim, methods and applications. Revision of unit 1.
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	8	Understanding of units of measurement and their conversion
3 rd	9	Introduction to Size Reduction and Sieve Analysis.
	10	Theory of comminution.
	11	Calculation of energy required during size reduction.
	12	To study critical speed of ball mill (written). (Practical)
4 th	13	Crushing efficiency.
	14	Size reduction equipment.
	15	Size reduction of fibrous Foods
	16	To study size reduction with the help of Hammer mill (Practical)
	17	Size reduction for dry foods.
	18	Size reduction for liquid foods.
5 th	19	Effects of size reduction on sensory characteristics and nutritive
5		value of food.
	20	Determination of steam distillation process of herbs. (Practical)
6 th	21	Revision for size reduction.
	22	Sieving: Separation based on size (mesh size).
	23	Types of screens.
	24	Concentration by crystallization (Practical)
7 th	25	Effectiveness of screens.
	26	Revision for unit 2 nd .
	27	Class test for unit 1 st and 2 nd .
	28	Clarification of apple juice using filter press (Practical)
8 th	29	Mixing- methods and equipments.
	30	Agitating- methods and equipments.
	31	Kneading- methods and equipments.
	32	To study different types of mixing equipments. (Practical)
	33	Blending- methods and equipments.
oth	34	Homogenization- methods and equipments.

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,	35	Revision for unit 3 rd .
	36	To study homogenization process for milk (Practical)
10 th	37	Class test for unit 3 rd .
	38	Introduction to separation processes.
	39	Principle of filtration.
	40	Analysis of sampled foods for physical characteristics (Practical)
11 th	41	Filtration methods.
	42	Filtration equipments.
	43	Filtration equipments.
	44	Demonstration of working simple distillation unit. (Practical)
12 th	45	Principle of Sedimentation.
	46	Sedimentation methods.
	47	Sedimentation equipments.
	48	To study different types of sedimentation processes used in food
		industry. (Practical)
13 th	49	Principle of Crystallization.
	50	Crystallization methods.
	51	Different types of crystallizers.
	52	To study different types of crystallizers used in food industry
	50	(written). (Practical)
14 th	53	Principle of distillation.
	54	Methods of distillation.
	55	Distillation equipments.
	56	To study effectiveness of screens (Practical)
15 th	57	Distillation equipments.
	58	Revision of unit 4 th .
	59	Class test of unit 4 th .
	60	To study different types of filtration processes used in food
		industry. (Practical)