BHAI GURDAS INSTITUTE OF ENGINEERING AND TECHNOLOGY SANGRUR Department of Food Technology

LESSON PLAN

Name: Ms. Amandeep Kaur

Subject name: Technology of Milk and Milk Products Subject code: BTFT 321-19

Branch/ Semester: 6th Sem.

Sr. No.	Lecture no.	Topics to be covered	Date /week	Teaching aids	Remarks
1.	L-1	Unit I: Current status of Indian dairy sector	1 st Week	Black board & PPT	
2.	L-2	production, utilization and per capita consumption of milk		Black board & PPT	
3.	L-3	Milk: definition, types of milk	2 nd Week	Black board	
4.	L-4	composition, nutritive value of milk and milk products	-	Black board	
5.	L-5	Milk properties: physical, chemical and thermal properties like density, acidity, redox potential, specific gravity,	3 rd Week	Black board & PPT	
6.	L-6	Milk processing: reception,pasteurization (LTLT,HTST),homogenization		Black board	
7.	L-7	sterilization, aseptic packaging.	4 th Week	Black board	
8.	L-8	Unit II: Cream separation and related equipments; Butter: definition,		Black board	
9.	L-9	butter-making process, overrun, defects in cream & butter	5 th Week	Black board & PPT	
10	. L-10	Technology of ice-cream: composition of ice-cream		Black board	
11.	. L-11	methods of preparation; Evaporated and concentrated milks	6 th Week	Black board	
12	. L-12	water and solid balance, boiling point elevation		Black board & PPT	
13	. L-13	Dried milks: dried whole milk, dried non-fat milk/SMP	1	Black board	
14	. L-14	milk drying system (film, roller, drum, spray, foam spray drying).	7 th Week	Black board & PPT	

15.	L-15	Unit III: Cultured milk and milk		Black board
		products: types and		& PPT
		manufacturing process; Cheese		
16.	L-16	technology of different varieties	8 th Week	Black
		of cheese manufacturing		
		(cheddar & mozarella)		
17.	L-17	changes during ripening;		Black board
		manufacture of processed		& PPT
		cheese, defects in cheese		
18.	L-18	rabri, kulfi, srikhand, mawa,	9 th Week	Black board
		channa, paneer, ghee		
19.	L-19	Unit IV : Value addition and		Black board
		by-products utilization: fortified		
		milk		
20.	L-20	milk products such as minerals	10 th Week	Black board
		and vitamins fortified milk; Low		
		fat, low lactose and low		
		cholesterol milk products		
21.	L-21	Utilization of		Black board
		whey, caseinates etc		
22.	L-22	Cleaning and disinfections in a	11 th Week	Black board
		dairy industry: terms,		& PPT
		definitions, cleaning and		
		disinfection agents and		
		processes		
23.	L-23	Cleaning in Place (CIP) and	1	Black board
		Cleaning out of Place (COP).		& PPT

(Course Incharge)