Diploma Programme in Dairy Technology (DDT)

Counseling Schedule for Theory year 2022

SI. No		Timing	Session	Course Code and Title	Teacher
	12/09/2022	9:00- 11:00 AM	1	Orientation Programme	Dr. Manohar Sain
		11:00 AM-1:00 PM	2	Course-I (BPVI-011) Milk Production and Quality of Milk	Dr. Manohar Sain
				Lunch	
		3:00-5:00 PM	3	Course-II (BPVI-012) Dairy Equipment and Utilities	Dr. Mohan Choudhary
2.	13/09/2022	9:00- 11:00 AM	4	Course-III (BPVI-013) Milk Processing and Packaging	Dr. Mohan Choudhary
		11:00 AM-1:00 PM	5	Course - IV (BPVI-014) Dairy Products -1	Dr. Mohan Choudhary
				Lunch	
		3:00-5:00 PM	6	Course-V (BPVI-015) Dairy Products - II	Dr. Mohan Choudhary
3.	14/09/2022	9:00- 11:00 AM	7	Course-VI (BPVI-016) Dairy Products - III	Dr. Mohan Choudhary
		11:00 AM-1:00 PM	8	Course-VII (BPVI-017) Quality Assurance	Dr. Manohar Sain
				Lunch	
		3:00-5:00 PM	9	Course -VIII (BPVI-018) Dairy Management and Entrepreneurship	Dr. Neeraj Sharma
4.	15/09/2022	9:00- 11:00 AM	10	Course-I (BPVI-011) Milk Production and Quality of Milk	Dr. Neeraj Sharma
		11:00 AM-1:00 PM	11	Course-II (BPVI-012) Dairy Equipment and Utilities	Dr. Mohan Choudhary
				Lunch	
		3:00-5:00 PM	12	Course-III (BPVI-013) Milk Processing and Packaging	Dr. Mohan Choudhary
5.	16/09/2022	9:00- 11:00 AM	13	Course - IV (BPVI-014) Dairy Products -1	Dr. Mohan Choudhary
		11:00 AM-1:00 PM	14	Course-V (BP VI-015) Dairy Products — II	Dr. Mohan Choudhary
				Lunch	
		3:00-5:00 PM	15	Course - VI (BPVI-016) Dairy Products - III	Dr. Mohan Choudhary

6.	17/09/2022	9:00- 11:00 AM	16	Course-VII (BPVI-017) Quality Assurance	Dr. Mohan Choudhary
		11:00 AM-1:00 PM	17	Course-VIII (BPVI-018)	Dr. Neeraj Sharma
				Dairy Management and Entrepreneurship	
				Lunch	
		3:00-5:00 PM	18	Course -I (BPVI-011) Milk Production and Quality of Milk	Dr. Manohar Sain
7.	19/09/2022	9:00- 11:00 AM	19	Course-II (BPVI-012) Dairy Equipment and Utilities	Dr. Manohar Sain
		11:00 AM-1:00 PM	20	Course-III (BPVI-013) Milk Processing and Packaging	Dr. Mohan Choudhary
				Lunch	
		3:00-5:00 PM	21	Course-IV (BPVI-014) Dairy Products -1	Dr. Mohan Choudhary
8.	20/09/2022	9:00- 11:00 AM	22	Course-V (BPVI-015) Dairy Products - II	Dr. Mohan Choudhary
		11:00 AM-1:00 PM	23	Course-VI (BPVI-016) Dairy Products - III	Dr. Mohan Choudhary
				Lunch	
		3:00-5:00 PM	24	Course-VII (BPVI-017) Quality Assurance	Dr. Manohar Sain
		9:00- 11:00 AM	25	Course-VIII (BPVI-018)	Dr. Neeraj Sharma
<u> </u>				Dairy Management and Entrepreneurship	

Diploma Programme in Dairy Technology (DDT)

Counseling Schedule for PRACTICAL year 2022

SI. No.	Practical (Date)	Code & Title of the Course	Session	SI. No. & Title of the Experiments	Teacher
1.	21/09/2022	Introduction to the Practical	1	Orientation to Practical/ Lab	Dr. Manohar Sain
		Course -1 (BPVI-011) Milk Production and Quality of Milk	2	 Identification of different milch breeds of cattle, buffaloes, goats and external anatomy of dairy animals Judging of dairy animals 6. Clean milk production 	Dr. Mohan Choudhary
2.	22/09/2022	Course-I (BPVI-011) Milk Production and Quality of Milk	3	 3. Identification of various feeds and fodders for dairy animals 4. Preparations of balanced rations, calf starters, milk replacer and feeding of calves 5. Housing of animals and maintenance of hygienic conditions at farm 7. Field/Farm visits 	Dr. Mohan Choudhary
			4	 Preparation of standard 0.1N sodium hydroxide solution Preparation of standard 0. IN hydrochloric acid Preparation of gerber acid for 	Dr. Manohar Sain
3.	23/09/2022	Course -1 (BPVI-011) Milk Production and Quality of Milk	5	 Sampling of milk Platform test - (i) colt - on - boiling test Platform test - (ii) alcohol test Platform test- (iii) sediment test 	Dr. Manohar Sain
			6	8. Determination of fat in milk by Gerber method9. Determination of solid - not - fat (SNF) in	
•	24/09/2022	Course-I (BPVI-011) Milk Production and Quality of Milk	7	11 .Specific gravity of milk12. Determination of titratable acidity	Dr. Manohar Sain
			8	14. Detection of starch in milk15. Detection of cane sugar in milk16. Detection of glucose in milk	Dr. Manohar Sain
5.	27/09/2022	Course-I (BPVI-011) Milk Production and Quality of Milk	9	 17. Detection of urea in milk 18. Detection of ammonium sulphate in milk 19. Detection of sodium carbonate or bicarbonate as neutralizer in milk 	Dr. Manohar Sain
			10	20.Resazurin reduction test 21 .Methylene blue reduction (MBR) test 22.Preparation of microbial media	Dr. Manohar Sain
•	28/09/2022	Course-I (BPVI-011) Milk Production and Quality of Milk	11	23. Demonstration of presumptive coliform test 24. Demonstration of standard plate count	Dr. Manohar Sain

	29/09/2022	Course-II (BPVI-012)	12	To learn elementary layout drawings of utilities Study of various workshop tools	Dr. Mohan Choudhary
		Dairy Equipment and Utilities		3. Study of different sanitary S.S. pipes, fittings and gaskets4. To study different types of thermometers, pressure	
			10	gauge and flow meters	201
7.	30/09/2022	Course-II (BPVI-012)	13	Study and sketch the details of milk tanker, storage tanks and silos	Dr. Mohan Choudhary
		Dairy Equipment and Utilities	14	6. Study of refrigeration system: compressor (reciprocating), condensers (shell & tube, atmospheric) and expansion devices (thermostatic) expansion valve/capillary tube) Study of parts and operation of a cold storage plant and an ice bank unit	Dr. Mohan Choudhary
3.	06/10/2022	Course - II (BPVI-012) Dairy	15	9. Study different parts and learn the operation of plate chiller and bulk milk cooler 4. Dismantling and assembling of milk pumps	Dr. Mohan Choudhary
		Equipment and Utilities	16	10. Study of water supply system and water softening plant	Dr. Neeraj Sharm
				12. Study of a dairy effluent plant	
₹.	07/10/2022	Course-II (BPVI-012) Dairy	17	11 Study the constructional details of Fire tube and water tube boilers	Dr. Mohan Choudhary
		Equipment and Utilities		15. Study of different safety measures to be adapted in a dairy plant.16. To study the control and safety mountings of a steam	
			18	 13. To study the different parts of single-phase and three phase induction motors 14. Starting of 3 phase squirrel cage induction motors by direct on line and star-data starter 	Dr. Mohan Choudhary
10.	10/10/2022	Course-III	19	Reception of milk -	Dr. Mohan
	10/10/2022	(BPVI-013) Milk		Straining, filtration & clarification of milk Chilling & storage of milk	Choudhary
		Processing and Packaging	20	4Study of cream separator5. Study of separation of milk6. Standardization of milk	Dr. Mohan Choudhary
11.	11/10/2022	Course-III (BPVI-013) Milk Processing and		 7. Study of batch pasteurizer and high temperature short time (HTST) pasteurizer 8. Pasteurization of milk 9. Determination of efficiency of pasteurization 	Dr. Mohan Choudhary
		Packaging	22	Study of homogenizer, homogenization of milk and determination of homogenization efficiency	Dr. Mohan Choudhary
12.	12/10/2022	Course-III (BPVI-013) Milk Processing and	23	11. Study of Milk Sterilizer, Sterilization of Milk and Determination of Sterilization efficiency 13. Preparation of Flavoured Milk, Reconstituted Milk, Toned and Double Toned Milk	Dr. Manohar Sain
		Packaging	24	12. Study of packaging system of milk	Dr. Mohan Choudhary

12	10/10/0000	[a	25	I	D 1//
13	13/10/2022	Course-IV (BPVI-	25	8 1 1 F	Dr. Mohan
		014) Dairy Products -		15. Sanitization of equipment	Choudhary
		1		16. Assessment of cleaning and	Choddhary
			26	sanitization efficiency 1. Preparation and standardization of	Dr. Mohan Choudhary
			26	cream	Dr. Mohan Choudhary
14	14/10/2022	Course-IV (BPVI-	27	3. Preparation of butter starter	Dr. Mohan Choudhary
		014) Dairy Products -		4. Preparation of cream for butter	
		1	28	5. Construction and operation of power	Dr. Mohan Choudhary
				chum	
				6. Construction and operation of butter	
				packaging machine	
15	15/10/2022	Course-IV (BPVI-	31	9. Preparation of <i>ghee</i>	Dr. Mohan Choudhary
		014) Dairy Products -		10. Agmark grading of <i>ghee</i>	
		Course-V(BPVI-015)	32	1. Preparation of <i>khoa</i>	Dr. Mohan Choudhary
		Dairy Products - II			
16	17/10/2022	Course -V(BPVI-015)	33		Dr. Mohan Choudhary
		Dairy Products - II	2.4	4. Preparation of <i>burfi</i>	D M 1 Cl 11
				• • •	Dr. Mohan Choudhary
17	18/10/2022	Course -V (BPVI-	35	6. Preparation of kalakand and milk	Dr. Mohan Choudhary
		015) Dairy Products -	36	8. Preparation of Chhana	Dr. Mohan Choudhary
18	19/10/2022	Course-V(BPVI-015)	37		Dr. Mohan Choudhary
		Dairy Products - II	38	1	Dr. Mohan Choudhary
10			20	11. Preparation of <i>rasmalai</i>	
19	20/10/2022	Course-V(BPVI-015)	39		Dr. Mohan Choudhary
		Dairy Products - II	40	12.Preparation of <i>Chhena Murki</i>5. Preparation of <i>rabri</i> 7. Preparation of	Dr. Mohan Choudhary
			40	kheer	Di. Wohan Choudhary
20	21/10/2022	Course-V(BPVI-015)	41	14. Study of vacuum pan/double effect/	Dr. Mohan Chaudhary
20	21/10/2022	Dairy Products - II		triple effect of evaporator	Di. Mohan Choudhary
		Duny Froducts II	42	15. Study of manufacture of spray dried	Dr. Mohan Choudhary
21	22/10/2022	Course-V(BPVI-015)	43	16. Preparation of value added products	
	22/10/2022	Dairy Products - II	.5	from dried milk-dairy whitener	171. Iviolian Choudhary
		-	44	17. Visit to dairy product manufacturing	Dr. Mohan Choudhary
				plant (Ghee, Butter, Khoa, Dahi	
22	01/11/2022	Course- VI (BPVI-	45		Dr. Mohan Choudhary
		016) Dairy Products -		2. Preparation of <i>dahi</i>	
		III	46	±	Dr. Mohan Choudhary
22	00/11/0000	Q VV 2555	47	Preparation of yoghurt	5 1/1 6" "
23	02/11/2022	Course- VI (BPVI-	47		Dr. Mohan Choudhary
		016) Dairy Products - III	48	±	Dr. Mohan Choudhary
24	03/11/2022	Course- VI (BPVI-	49	drinks/ salted butter milk 11. Calculation of ingredients for ice	Dr. Mohan Choudharv
	03/11/2022	016) Dairy Products -	.,	cream mix	
		III		12. Preparation of ice-cream mix	
				13. Preparation of ice cream and	
				determination of overrun	

			50	16. Preparation of softy	<u> </u>
				17. Manufacture of kulfi	
25	04/11/2022	Course- VI	51	18. Manufacture of casein	Dr. Mohan Choudhary
		(BPVI- 016)		19. Study of manufacture of lactose	
		Dairy Products -	52	7. Preparation of cheddar cheese from	Dr. Mohan Choudhary
		III		cow milk	
26	05/11/2022	Course- VI	53	8. Preparation of mozzarella cheese	Dr. Mohan Choudhary
		(BPVI- 016)		9. Preparation of processed cheese	
		Dairy Products -		10. Preparation of processed cheese	
	05/14/0000	III	54	15. Visit to cheese factory	Dr. Mohan Choudhary
27	07/11/2022	Course-VII(BP	55	1. Familiarization with laboratory	Dr. Neeraj Sharma
		VI-017) Quality		equipment and instruments	
		Assurance		4. Determination of fat in milk,	
				cream, butter, khoa, paneer, Ice	
				cream, milk powder	
		-	56	6. Determination of solubility of milk	Dr. Mohan Choudhary
			50	powder	Dr. Monan Choudhary
				7. Determination of acid value in	
28	09/11/2022	Course-VII	57	8. Microbiological analysis of milk	Dr. Manohar Sain
		(BPVI- 017)	58	9. Microbiological analysis of air and	Dr. Manohar Sain
		Quality		water.	
29	10/11/2022	Course-	59	11-15. Sensory evaluation of	Dr. Manohar Sain
		VII(BPVI-017)		milk, cream, butter, ghee, ice	
		Quality	60	16-20. Sensory evaluation of khoa paneer, milk	Dr. Manohar Sain
		Assurance	00	powder, shrikhand, cheese and other	
				products	
30	11/11/2022	Course-	61	2. Listing of quality control agencies	Dr. Manohar Sain
		VII(BPVI-017)		at national level and international	
		Quality		level	
		Assurance		3. Standards specification (chemical	
				and microbiological) of milk and	
				milk products	
		Course-	62	7. Identification of entrepreneurial	Dr. Neeraj Sharma
		VIII(BPVI- 018)		skills	
		Dairy			
21	4.44.40000	Management and	62		Du Manahan Cain
31	14/11/2022	Course-VIII	63	3. Visit to nearby dairy cooperative	Dr. Manohar Sain
		(BPVI- 018)		society and study working aspects 4. Calculation of milk payment based	Dr. Mohan Choudhary
		Dairy Managament and			
		Management and Entrepreneurship		on fat and two axis pricing policy of Dairy Cooperative Society	Dr. Neeraj Sharma
		Entrepreneursinp	64	5. Designing milk routes based or	Dr. Mohan Choudharv
				data.	
				6. Preparation of ledger, trial-balance	
				and balance- sheet of DCS.	
32	15/11/2022	Course- VIII	65	1.Identification of sources for milk	Dr. Mohan Choudhary
		(BPVI- 018)		losses during processing of milk	
		Dairy		and preparation of milk products.	
		Management and		Preparation of check list for	
		Entrepreneurship		controlling the losses.	
				2. Identification of parameters for	
	1			production efficiency	1
				12. Preparation of check list for	

			66	11 .Visit a nearby milk union/dairy and study the store-keeping practices, inventory control, and maintenance of various records preparation	Dr. Mohan Choudhary
33.	16/11/2022	Course- VIII (BPVI- 018) Dairy Management	67	9. Prepare a questionnaire to assess strength and weakness of any milk or milk product marketing by a nearby milk union or a dairy and also administer it.	Dr. Manohar Sain
		and Entrepreneurs	68	10.Visit a nearby milk union/dairy and prepare a checklist of problems in procurement and milk distribution.	Dr. Mohan Choudhary
34.	17/11/2022	Course- VIII (BPVI- 018)	69	13. Load estimation of utilities	Dr. Mohan Choudhary
		Dairy Management and	70	8. Prepare a project report to set up milk parlour/a small dairy plant.	Dr. Neeraj Sharma
35.	18/11/2022	Course- VIII (BPVI- 018)	71	14. Market information report on different dairy products/Preparation	Dr. Neeraj Sharma
		Dairy Management	72	14. Preparation of bankable report	Dr. Neeraj Sharma

B. Unguided Practicals

D. C1	D. Oliguided Tracticals					
	Practical	Course Code and Title				
	(Days)					
36.	19/11/2022	Course-1 (BPV1-011) Milk production and Quality of milk				
		Course-11 (BPVI-012) Dairy Equipment and utensils				
37.	21/11/2022	Course-411 (BPVI-013) Milk packaging rod packets				
		Course-IV (BPM-014) Dairy Products -1				
38.	22/11/2022	Course - V (BPV1-015) Dairy Produce - II				
		Course -VI (BPVI-016) Dairy Products-I				
39.	23/11/2022	Course-VII (BPVI-017) Quality Assurance				
		Course-VIII (BPVI-018) Dairy Management and				
		Entrepreneurship				
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