Diploma Programme in Dairy Technology (DDT)

			Counsel	ing Schedule for Theory year 2020	
SI.	Date	Timing	Session	Course Code and Title	Teacher
No 1.		9:00- 11:00 AM	1	Orientation Programme	Prof. Basant Bais
		11:00 AM-1:00 PM	2	Course-I (BPVI-011) Milk Production and Quality of Milk	Dr. C. S. Dhaka
				Lunch	
		3:00-5:00 PM	3	Course-II (BPVI-012) Dairy Equipment and Utilities	Dr. Lokesh Tak
2.	18-02-20	9:00- 11:00 AM	4	Course-III (BPVI-013) Milk Processing and Packaging	Dr. Lokesh Tak
		11:00 AM-1:00 PM	5	Course - IV (BPVI-014) Dairy Products -1	Dr. Lokesh Tak
				Lunch	
		3:00-5:00 PM	6	Course-V (BPVI-015) Dairy Products - II	Dr. Lokesh Tak
3.	19-02-20	9:00- 11:00 AM	7	Course-VI (BPVI-016) Dairy Products - III	Dr. Lokesh Tak
		11:00 AM-1:00 PM	8	Course-VII (BPVI-017) Quality Assurance	Dr. C. S. Dhaka
				Lunch	
		3:00-5:00 PM	9	Course -VIII (BPVI-018) Dairy Management and Entrepreneurship	Dr. Lokesh Tak
4.	20-02-20	9:00- 11:00 AM	10	Course-I (BPVI-011) Milk Production and Quality of Milk	Dr. Lokesh Tak
		11:00 AM-1:00 PM	11	Course-II (BPVI-012) Dairy Equipment and Utilities	Dr. C. S. Dhaka
				Lunch	
		3:00-5:00 PM	12	Course-III (BPVI-013) Milk Processing and Packaging	Dr. Lokesh Tak
5.	22-02-20	9:00- 11:00 AM	13	Course - IV (BPVI-014) Dairy Products -1	Dr. Lokesh Tak
		11:00 AM-1:00 PM	14	Course-V (BP VI-015) Dairy Products — II	Dr. Lokesh Tak
				Lunch	
		3:00-5:00 PM	15	Course - VI (BPVI-016) Dairy Products - III	Dr. Lokesh Tak

6.	24-02-20	9:00- 11:00 AM	16	Course-VII (BPVI-017) Quality Assurance	Dr. C. S. Dhaka
		11:00 AM-1:00 PM	17	Course-VIII (BPVI-018)	Dr. Lokesh Tak
				Dairy Management and Entrepreneurship	
				Lunch	
		3:00-5:00 PM	1.0	Course -I (BPVI-011)	Dr. Lokesh Tak
			18	Milk Production and Quality of Milk	
7.	25-02-20	9:00- 11:00 AM	19	Course-II (BPVI-012)	Dr. Lokesh Tak
				Dairy Equipment and Utilities	
		11:00 AM-1:00 PM	20	Course-III (BPVI-013)	Dr. Lokesh Tak
			20	Milk Processing and Packaging	
				Lunch	
		3:00-5:00 PM	21	Course-IV (BPVI-014) Dairy Products -1	Dr. Lokesh Tak
8.	26-02-20	9:00- 11:00 AM	22	Course-V (BPVI-015) Dairy Products - II	Dr. C. S. Dhaka
		11:00 AM-1:00 PM	23	Course-VI (BPVI-016) Dairy Products - III	Dr. Lokesh Tak
				Lunch	
		3:00-5:00 PM	24	Course-VII (BPVI-017) Quality Assurance	Dr. Lokesh Tak
		9:00- 11:00 AM	25	Course-VIII (BPVI-018)	Dr. C. S. Dhaka
				Dairy Management and Entrepreneurship	

<u>Diploma Programme in Dairy Technology (DDT)</u>

Counseling Schedule for PRACTICAL year 2020

SI. No.	Practical (Data)	Code & Title of the	Session	SI. No. & Title of the Experiments	
1.	(Date) 2-03-20	Course Introduction to the Practical	1		Prof. Basant Bais
		Course -1 (BPVI-011) Milk Production and Quality of Milk	2		Dr. Lokesh Tak
2.	3-03-20	Course-I (BPVI-011) Milk Production and Quality of Milk		 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. Lokesh Tak
			4		Dr. Lokesh Tak
3.	4-03-20	Course -1 (BPVI-011) Milk Production and Quality of Milk	5	4. Sampling of milk	Dr. R. N. Kachhwah
			6	 8. Determination of fat in milk by Gerber method 9. Determination of solid - not - fat (SNF) in milk 10. Determination of total solid (TS) in milk 	Dr. Lokesh Tak
4.	5-03-20	Course-I (BPVI-011) Milk Production and Quality of Milk	7	11 .Specific gravity of milk	Dr. Lokesh Tak
			8		Dr. C. S. Dhaka
5.	6-03-20	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. R. N. Kachhwah
			10	20.Resazurin reduction test 21 .Methylene blue reduction (MBR) test 22.Preparation of microbial media	Dr. Lokesh Tak
6.	7-03-20	Course-I (BPVI-011) Milk Production and Quality of Milk	11	23. Demonstration of presumptive coliform test 24. Demonstration of standard plate count	Dr. Lokesh Tak

		Course-II (BPVI-012) Dairy Equipment and Utilities	12		Dr. C. S. Dhaka
7.	11-03-20	(BPVI-012)	13	Study and sketch the details of milk tanker, storage tanks and silos	Dr. R. N. Kachhwah Dr. Lokesh
		Dairy Equipment and Utilities	14	 7. Study of refrigeration system: compressor (reciprocating), condensers (shell & tube, atmospheric) and expansion devices (thermostatic) expansion valve/capillary tube) 8. Study of parts and operation of a cold storage plant and an ice bank unit 	Tak
3.	12-03-20	Course - II (BPVI-012) Dairy Equipment	15	9. Study different parts and learn the operation of plate chiller and bulk milk cooler 4. Dismantling and assembling of milk pumps	Dr. Lokesh Tak
		and Utilities	16	10. Study of water supply system and water softening plant	Dr. Lokesh Tak
€.	13-03-20	Course-II	17	12. Study of a dairy effluent plant11 Study the constructional details of Fire tube and water	Dr. R. N.
		(BPVI-012) Dairy 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	Kachhwah
			18	13. To study the different parts of single-phase and three phase induction motors14. Starting of 3 phase squirrel cage induction motors by direct on line and star-data starter	Dr. Lokesh Tak
10.	16-03-20	Course-III (BPVI-013) Milk Processing and	19	Reception of milk - Straining, filtration & clarification of milk Chilling & storage of milk	Dr. Lokesh Tak
		Packaging	20	 4Study of cream separator 5. Study of separation of milk 6. Standardization of milk 	Dr. C. S. Dhaka
11.	17-03-20	Course-III (BPVI-013) Milk Processing and Packaging	21	7. Study of batch pasteurizer and high temperature short time (HTST) pasteurizer8. Pasteurization of milk9. Determination of efficiency of pasteurization	Dr. R. N. Kachhwah
			22	Study of homogenizer, homogenization of milk and determination of homogenization efficiency	Dr. Lokesh Tak
12.	18-03-20	Course-III (BPVI-013) Milk Processing and Packaging	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. Lokesh Tak
			24	12. Study of packaging system of milk	Dr. C. S. Dhaka

13	10.02.20	Course IV (DDVI	25	14 (1)	Dr. C. S. Dhaka
13	19-03-20	Course-IV (BPVI-	23	1 1. Cleaning of equipment	DI. C. S. Dilaka
		014) Dairy Products -		15. Sanitization of equipment	
				16. Assessment of cleaning and sanitization efficiency	
			26		Dr. R. N. Kachhwa
			20	Preparation and standardization of cream Preparation of sterilized cream	
14	20-03-20	Course-IV (BPVI-	27	3. Preparation of butter starter	Dr. Lokesh Tak
		014) Dairy Products -		4. Preparation of cream for butter making	
		1	28	5. Construction and operation of power	Dr. Lokesh Tak
				chum	
				6. Construction and operation of butter	
15	21-03-20	Course-IV (BPVI-	29	7. Preparation of <i>desi</i> butter (<i>makkhan</i>), and	Dr. Lokesh Tak
		014) Dairy Products -		cooking butter	
		1	30	8. Preparation of Table butter	
16	23-03-20	Course-IV (BPVI-	31	9. Preparation of <i>ghee</i>	Dr. Lokesh Tak
		014) Dairy Products -	22	10. Agmark grading of ghee	D I I I II I
		Course-V(BPVI-015)	32	1. Preparation of <i>khoa</i>	Dr. Lokesh Tak
17	24.02.20	Dairy Products - II	33	2. Donounting of wells	D C C D1 1
1 /	24-03-20	Course -V(BPVI-015)	33	3. Preparation of <i>peda</i>4. Preparation of <i>burfi</i>	Dr. C. S. Dhaka
		Dairy Products - II	34		Dr. R. N. Kachhwa
				• • • • • • • • • • • • • • • • • • • •	
18	26-03-20	Course -V (BPVI-	35	1	Dr. Lokesh Tak
		015) Dairy Products -	36	•	Dr. Lokesh Tak
19	27-03-20	Course-V(BPVI-015)	37	13. Preparation ofpaneer	Dr. C. S. Dhaka
		Dairy Products - II	38	10. Preparation of sandesh	Dr. R. N. Kachhwa
				11. Preparation of rasmalai	
20	28-03-20	Course-V(BPVI-015)	39	9. Preparation of <i>rasogolla</i> 12.Preparation of	Dr. Lokesh Tak
		Dairy Products - II	40	Chhena Murki	D I I I II I
			40	5. Preparation of <i>rabri</i> 7. Preparation of	Dr. Lokesh Tak
				kheer	
21	30-03-20	Course-V(BPVI-015)	41	in study of the duality pair do do to the study of	Dr. Lokesh Tak
		Dairy Products - II		effect of evaporator	
			42	15. Study of manufacture of spray dried milk	
22	31-03-20	Course-V(BPVI-015)	43	16. Preparation of value added products from	Dr. Lokesh Tak
		Dairy Products - II		dried milk-dairy whitener	
			44	17. Visit to dairy product manufacturing	Dr. C. S. Dhaka
				plant (Ghee, Butter, Khoa, Dahi Condensed	
23	1-04-20	Course- VI (BPVI-	45	1. Preparation of starter culture	
		016) Dairy Products -	1.0	2. Preparation of <i>dahi</i>	D. I. 1 1. T. 1
		III	46	3. Preparation of <i>mishti dahi</i> 5. Preparation	Dr. Lokesh Tak
				of yoghurt	
24	3-04-20	Course- VI (BPVI-	47	6. Preparation of <i>shrikhand</i>	Dr. Lokesh Tak
		016) Dairy Products -	48	4. Preparation of <i>lassi/</i> fermented drinks/	Dr. Lokesh Tak
		III		salted butter milk	
25	4-04-20	Course- VI (BPVI-	49	11. Calculation of ingredients for ice cream	Dr. R. N. Kachhwa
		016) Dairy Products -		mix	
		III		12. Preparation of ice-cream mix	
				13. Preparation of ice cream and determination of overrun	
				determination of overfull	

			50	16. Preparation of softy	Dr. C. S. Dhaka
				17. Manufacture of kulfi	
26	7-04-20	Course- VI	51	18. Manufacture of casein	Dr. R. N. Kachhwah
		(BPVI- 016)		19. Study of manufacture of lactose	
		Dairy Products -	52	7. Preparation of cheddar cheese from	Dr. Lokesh Tak
		III		cow milk	
27	8-04-20	Course- VI	53	8. Preparation of mozzarella cheese	Dr. Lokesh Tak
		(BPVI- 016)		9. Preparation of processed cheese	
		Dairy Products -		10. Preparation of processed cheese	
		III	54	15. Visit to cheese factory	Dr. Lokesh Tak
28	9-04-20	Course-VII(BP	55	1. Familiarization with laboratory	Dr. R. N. Kachhwah
		VI-017) Quality		equipment and instruments	
		Assurance		A Determination of feet in mills	
				4. Determination of fat in milk,	
				cream, butter, khoa, paneer, Ice cream, milk powder	
			56	6. Determination of solubility of milk	De Lalacah Tala
			30	powder	
29	13-04-20	Course-VII	57	8. Microbiological analysis of mill	
		(BPVI- 017)	58	9. Microbiological analysis of air and	^l Dr. C. S. Dhaka
		Quality		water.	
30	15-04-20	Course-	59	11-15. Sensory evaluation of	Dr. R. N. Kachhwah
		VII(BPVI-017)		milk, cream, butter, ghee, ice	
		Quality	60	16-20. Sensory evaluation of khoa	Dr. Lokesh Tak
		Assurance		paneer, milk	
31	16-04-20	Course-	61	2. Listing of quality control agencies	Dr. Lokesh Tak
		VII(BPVI-017)		at national level and international	
		Quality		level	
		Assurance		3. Standards specification (chemical	
		Course-	62	7. Identification of entrepreneuria skills	lDr. C. S. Dhaka
		VIII(BPVI- 018)		SKIIIS	
		Dairy			
32	17.04.20	Management and			Dr. R. N. Kachhwah
32	17-04-20	Course-VIII	63	3. Visit to nearby dairy cooperative	
		(BPVI- 018)		society and study working aspects	8
		Dairy		4. Calculation of milk payment based	
		Management and		on fat and two axis pricing policy	
		Entrepreneurship	64	of Dairy Cooperative Society	Dr. Lokach Tak
			04	5. Designing milk routes based or	IDI. LOKESII TAK
				data.	
				6. Preparation of ledger, trial-balance and balance- sheet of DCS.	
33	18-04-20	Course- VIII	65	1. Identification of sources for milk	Dr. Lokesh Tak
33	10-04-20	(BPVI- 018)	0.5	losses during processing of milk	Di. Lokesh Tuk
		Dairy		and preparation of milk products.	
		Management and		Preparation of check list for	
		Entrepreneurship		controlling the losses.	
		Emrepreneursinp		2. Identification of parameters for	
					1
				production efficiency	

			66	11 .Visit a nearby milk union/dairy and study the store-keeping practices, inventory control, and maintenance of various records preparation	Dr. C. S. Dhaka
34.	20-04-20	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. R. N. Kachhwa h
		and Entrepreneurs	68	10.Visit a nearby milk union/dairy and prepare a checklist of problems in procurement and milk distribution.	Dr. Lokesh Tak
35.	21-04-20	Course- VIII	69	13. Load estimation of utilities	Dr. Lokesh
		(BPVI- 018) Dairy Management	70	8. Prepare a project report to set up milk parlour/a small dairy plant.	Dr. Lokesh Tak
36.	22-04-20	Course- VIII (BPVI- 018)	71	14. Market information report on different dairy products/Preparation	
		Dairy Management	72	14. Preparation of bankable report	Dr. Lokesh Tak

B. Unguided Practicals

Practical	Course Code and Title	
(Days)		
23-04-20	Course-1 (BPV1-011) Milk production and Quality of milk	Dr. C. S. Dhaka
	Course-11 (BPVI-012) Dairy Equipment and utensils	Dr. Lokesh Tak
24-04-20	Course-411 (BPVI-013) Milk packaging rod packets	Dr. Lokesh Tak
	Course-IV (BPM-014) Dairy Products -1	Dr. Lokesh Tak
27-04-20	Course - V (BPV1-015) Dairy Produce - II	Dr. Lokesh Tak
	Course -VI (BPVI-016) Dairy Products-I	Dr. Lokesh Tak
28-04-20	Course-VII (BPVI-017) Quality Assurance	Dr. Lokesh Tak
	Course-VIII (BPVI-018) Dairy Management and	Dr. C. S. Dhaka
	Entrepreneurship	

- Note:

 Theory counseling sessions will be conducted with the condition that more than 5 candidates will attend it.
 practical classes will be conducted according to schedule.