Indira Gandhi National Open University- Study Centre- 27120 (P)

Department of Dairy Science and Technology, Janta Vedic College, Baraut (Baghpat)

Diploma in Dairy Technology (40 Guided 4 hours & 08 unguided of 2 hours each)

Counseling Schedule for Practical, Session –July 2022

Day s No.	Days, Date and Time	Time	Se ssi on No	Serial No. And Title of the experiment	Name of the counsellor
1	08.01.2023 Sunday 8.30-12.30 Noon	BPVI-011 Milk production and quality of milk	1	 Identification of different milch breeds of cattle, buffalo, goats and external anatomy of dairy animals. Judging of dairy animals. Identification of various feeds and folders for dairy animals. 	Mr. Gyanendra Singh
	12.304.30 PM	BPVI-011 Milk production and quality of milk	2	 4. Preparation of balanced ration, calf starter, milk replacer and feeding of calves. 5. Housing of animals and maintenance of hygienic condition at farm. 6. Clean milk production 7. Field and farm visit. 	Dr. Devesh Gupta
2.	15.01. 2023 Sunday 8.30-12.30 Noon	BPVI-011 Milk production and quality of milk	3	 Preparation of standard 0.1N sodium hydro oxide solution. Preparation of standard 0.1N hydrochloric acid solution. Preparation of Gerber acid for determination of fat in milk. Sampling of milk. 	Mr. Monu Kumar
Sec.	12.30 -4.30 pm	BPVI-011 Milk production and quality of milk	4	 5. Plate form tests-(I) clot in boiling. 6. Plate form Test-(II) alcohol test. 7. Plate form tests- (III) sediment test. 8. Determination of fat in milk by Gerber method. 9. Determination of solid not fat in milk. 10. Determination of total solids in milk. 11. Determination of specific gravity in milk. 	Mr. Monu Kumar
	Sulph Sulph			12. Determination of Titrable acidity	

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1			SA N	in milk.	
3.	22.01.2023 Sunday 8.30-12.30 Noon	BPVI-011 Milk production and quality of milk	5	 13. Determination of pH of milk. 14. Determination of Starch in milk. 15. Determination of cane sugar in milk. 16. Detection of glucose in milk. 17. Detection of urea in milk. 18. Detection of ammonium sulphate in milk. 19. Detection of sodium carbonate or bicarbonate as neutralizer in milk. 	Mr. Monu Kumar
	12.30 -4.30 PM	BPVI-011 Milk production and quality of milk	6	 20. Resazurin test. 21 Methylene blue reduction test. 22. Preparation of microbial media. 23. Demonstration of presumptive coli form test. 24. Demonstration of standard plate count methods. 25. Staining methods. 	Dr. Mahesh Kumar
4.	29.01.2023 Sunday 8.30- 12.30 Noon	BPVI-012 Dairy equipment & utilities	7	 To learn elementary layout drawings of utilities. Study of various workshop tools. Study of different sanitary S. S. Pipe, fitting and gaskets. 	Dr. Anil Kumar Gupta
	12.30 -4.30 PM	BPVI-012 Dairy equipment & utilities	8	4. Dismantling and assembling of milk pumps.5. Study and sketch the details of milk tankers, storage tank and silos.	Dr. Anil Kumar Gupta
5.	05.02.2023 Sunday 8.30-12.30 Noon	BPVI-012 Dairy equipment & utilities	9	6. To study different types of thermometers, pressure gauge and flow meters. 7. Study of refrigeration system.	Mr. Gyanendra Singh
	12.30 -4.30 PM	BPVI-012 Dairy equipment & utilities	10	8. Study of part and operation of a cold storage plant and an ice bank unit.9. Study different part and learn the operation of plate chiller and bulk milk cooler.	Mr. Gyanendra Singh
6.	12.02.2023 Sunday 8.30-12.30 Noon	BPVI-012 Dairy equipment & utilities	11	10. Study of water supply system and softening plant.11. Study the constructional details of a fire tube boiler and water tube boilers.12. Study of a dairy effluent plant.	Dr. R. K.Atrey
	12.30 -4.30 PM	BPVI-012 Dairy equipment & utilities	12	13. To study the different parts of single phase and three phases induction motors.14. Starting of 3 phases squirrel cage	Dr. R. K.Atrey

	butter packaging machine.		7	12.30 Noon	
	power churn.		Dairy Products	Sunday 8.30-	
		19	BPVI-014	26.02.2023	10.
	10. Preparation of Ghee.		1		
00		18	BPVI-014 Dairy Products	12.30 - 4.30 PM	
1					
	4. Preparation of cream for butter				
	3. Preparation of Butter starter.			IAOOH	
	cream		1	N50n	
	2 Preparation of of sterilization		Dairy Froducts	Sunday 8 30 12 30	
	1. Preparation and standardization of	17	BPVI-014	19.02.2023	9.
	sanitization efficiency.				
	16. Assessment of cleaning and				
	15. Sanitization of equipment.		Sucura Burg		
	milk.		processing and		
	reconstituted toned and double toned		Milk .	PM	
	13. Preparation of flavoured milk,	16	BPVI-013	12.30 - 4.30	
	milk.				
	12. Study of packaging system of				
_	milk and determination of sterilization				
	11. Study of sterilizer, sterilization of				
	efficiency.				
	and determination of homogenization		packaging	Noon	
	10. Study of homogenization of milk		processing and	8.30-12.30	
	nasteurization of efficiency of	1.7	Milk	Saturaday	
-	o. rasicurization of milk.	10	BDVI 013	18 02 2023	×
	temperature short time pasteurizer.		processing and		
	7. Study of batch pasteurizer and high		Milk	PM	
1	6. Standardization of milk.	14	BPVI-013	12.30 -4.30	
	5. Study of separation of milk.				
	4. Study of cream separator.				
	3. Chilling and storage of milk.		packaging	Noon	
	of milk.		processing and		
	2. Straining filtration and clarification		Milk	_	
	1. Reception of Milk.	13	BPVI-013	15.02.2023	7.
	mounting of a stream boiler				
	16. Study the control and safety				
0.	to be adopted in a doing plant				
	Starter.				
	the day of the same and same and				

	15.		14.		13.		12.		=	
12.30 -4.30 PM	22.03.2023 Wednesday 8.30-12.30 Noon	12.30 -4.30 PM	19.03.2023 Sunday 8.30-12.30 Noon	12.30 -4.30 PM	12.03.2023 Sunday 8.30-12.30 Noon	12.30 -4.30 PM	08.03.2023 Wednesday 8.30-12.30 Noon	12.30 -4.30 PM	05.03. 2023 Sunday 8.30-12.30 Noon	12.30 - 4.30 I
BP VI- 016 Dairy Products	BP VI- 016 Dairy Products -III	BP VI- 016 Dairy Products -III	BP VI- 016 Dairy Products -III	BP VI- 016 Dairy Products -III	BPVI-015 Dairy Products -II	BPVI-015 Dairy Products -II	BPVI-015 Dairy Products -II	BPVI-015 Dairy Products -II	BPVI-015 Dairy Products -II	BPVI-014 Dairy Products
30	29	2	27	26	25	24	23	22	21	20
12. Preparation of ice-cream mix. 13. Preparation of ice-cream and	18. Manufacture of casein. 19. Study of manufacture of lactose	16. Preparation of softy. 16. Preparation of softy. 9. Preparation of processed cheese. 10. Preparation of processed cheese spread. 11. Calculation of ingredient for ice-cream mix.	4. Preparation of lassi. 5 Preparation of Yohurt 6. Preparation of srikhand. 7. Preparation of eheddar cheese from cow milk.	Preparation of Statics Currence Preparation of Dahi. Preparation of Mishti Dahi Preparation of Mishti Dahi	14. Study of vacuum pan/ double effect/ triple effect evaporator. 15. Study of manufacture of spray dried milk powder. 16. Preparation of value added products from dried milk dairy whitener.	11. Preparation of rashidian. 12. Preparation of chhana murki. 13. Preparation of Paneer.	8. Preparation of Chhena.9. Preparation of rasgolla.10. Preparation of sandesh.	 Preparation of Kabri. 6. Preparation of Kalakand. 7. Preparation of milk cake. Preparation of Kheer. 	17 H H H	8.Cooking butter by hand operated methods. 9. Study of manufacture of table butter by power churn. 11. Ag-mark grading of Ghee.
Gyanendra	Mr. Gyanendra Singh	Gupta	ota Anil	Kumar Anil Kr	Gyanendra Singh Mr. Monu	M	Dr. R.K.Atrey	Gyanendra Singh	Mr. Gyanendra Singh	Dr. Anil Kr. Gupta

			19.		18.		15 P	17. 30.1 Th 8.3 No	12.30 PM	26.03.20 Sunday 8.30-11 Noon	
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	u)	211	3-	36	35		34	3 3	32	31	
	4. Calculation of milk payment based on fat and two axis pricing policy of dairy cooperative society.	2. Identification of parameters for production efficiency.3. Study of working of a co-operative				6. Determination of solubility of mines powder. 7. Determination of acid value in ohee.	4. Determination of fat in milk cream, butter, khoa, ice-cream, milk powder. 5. Determination of titrable acidity and pH of milk and milk products.	Familiarization with laboratory equipment and instruments. Listing of quality control agencies at national and international level. Standards specification of milk and milk products. Io. In line testing by rince and swab methods.	14-15 visit of ice-cream plant and cheese factory	17. Dairy Plant visit	determination of overrun. 17.Preparation of Kulffi.
Atrey	Dr. R. K.		Auey	Gupta Dr. R. K.	Kumar Kumar Dr. Devesh	Mahash	Dr. Anii Ni Gupta	Gupta	Or. Kajesn Gupta	Dr. Rajesh Gupta (P.I.)	Singh

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12.30 PM			19. 04.04.2023 Tuesday 8.30-12.30 Noon	12.30 PM	18. 02.04.2023 Sunday 8.30-12.30		12.30 -4 PM	17. 30.03.2023 Thursday 8.30-12.30 Noon	12.30 -4.30 PM	26.03.2023 Sunday 8.30-12.30 Noon	
-4.30 BP VI- 018 Dairy management		Entrepreneursn ip		-4.30 BP VI- 017 Quality Assurance	23 BP VI- 017 Quality Assurance		-4.30 BP VI- 017 Quality Assurance	BP VI- 017 Quality Assurance	0 BP VI- 016 Dairy Products	BP VI- 015 Dairy Products -II	-III
	u l	sn	}	36	35		34	33	32	31	
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In case of absence of any of the counselor in any session, class will be taken by available counselor.

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