Govt. Degree College, Rajampeta, Annamayya Dt. Department of ZOOLOGY

Academic year: 2024-25

1. Name of the Activity	GROUP DISCUSSION
2. Name of the Lecturer	Dr. N. Chandra Mohan
3. Date	25-10-2024
4. Number of students participated	17
5. Number of faculty involved	1

6. Aim & Objectives:

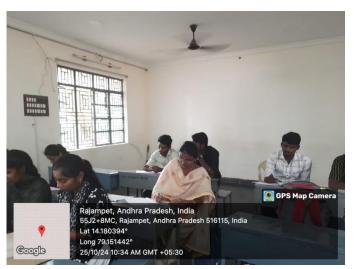
- To gain knowledge about the importance of Sterilization and Homogenization processes in dairy industry.
- To change the class environment.
- To enhance the thinking power of students.
- To improve the discussion skills of students.

7. Brief Report:

- ➤ I (Dr. N. Chandra Mohan) was conducted a Group Discussion Programme III BZC Students on 25-10-2024.
- From this programme the students were discussed the topics importance of 'Sterilization and Homogenization processes in dairy industry'.
- Sterilization is a process that destroys or eliminates all microorganisms, spores, and viruses on a surface or in a fluid. It is used in healthcare facilities to prevent the transmission of disease. Sterilization can be achieved through physical or chemical methods, such as steam, dry heat, hydrogen peroxide gas plasma, or liquid chemicals.
- > Homogenization implies mechanical treatment to break fat globules into smaller size of 2μm or less and uniformly disperse them in milk. Homogenization in the dairy industry is used principally to prevent or delay the formation of a cream layer in full cream milk by reducing the diameter of the fat globules. After homogenization, size of fat globules becomes less than 2μm. The average size of milk fat globule in milk is 2-12μm. The number of fat globules is 3-4 billion in a milliliter of milk. Homogenization was introduced by Buttenberg (1903) of Germany, and later developed in 1904 in London and the milk produced by this process was known as 'Gaulin milk'.

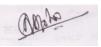
Discussed points:

- Definition of milk, Definition of sterilization and Definition of Homogenization.
- Processes and importance of Sterilization and homogenization processes in dairy industry.



Students discussed the topic - Sterilization and Homogenization processes

	Activity : Glamp Di	Coresion (steady-tem 4 thronoguess
te	: 25/10/2024		
ss	: II B2C.		
mber of st	udents participated : 17		
moer or sc			
ganized by	: Dr. N. Ch	andra Mahe	٠,٠
S.No	Name of the student/Person	Class/Designation	Signature
1.	A. Niverusham Rajuha	19 B2c	A. Wrosekshina Republic
2	B. Vani	4	· B-Vanji
3 .	C. Sunil	`	C. Lunil
u.	E - Reddemme	•	E. Reddamma
5.	G. Keothik	4	Crikarthile
6.	K. Sivanandini	ч	K Narthile
J.	M. Synky Nak	u	M-Sunkeya Naik
8 .	P. Vychnavi		D. Vzthnavi
9,	P. Redhike	-	P. Radhika
10.	S. Keditaich	u	S. Kadbrajah
	S. Conheen		8. Frebreen
12	S. Subana	` `	S. Subares
	T. Sagvani	٠,	T. Sravani
13.		,	Y-Storoni
14.	Y. Szeveni K. Nismele Kumai		K. Warnle Kumi
15		-	THI. SOLOTOR
16.	M. Saikedhik T. Mounika.	12	T. Horrixa
17.	7. Mounika.		1 1 10 11 11 12
			,
			,
			,
			,
			,
			,
			,



Signature of the lecturer: Dr. N. Chandra Mohan

