



**SYLLABUS FOR DIARY DEVELOPMENT OFFICER**

**B.Tech (DIARY TECHNOLOGY) PAPER-I**

**1. Dairy Technology**

1. Market Milk
2. Fat Rich Dairy Products
3. Traditional Indian Dairy Products
4. Condensed & Dried Milks
5. Cheese Technology
6. Ice-cream & Frozen Deserts
7. Packaging of Dairy Products
8. By products Technology
9. Sensory Evaluation of Dairy Products
10. Food Technology
11. Dairy Plant Management
12. Waste Disposal & Pollution Abatement
13. Fermented Milk Products
14. Prospect and Retrospect of the Indian Dairy Industry

**2. Dairy Engineering**

1. Engineering Drawing
2. Workshop Practice
3. Fluid Mechanics
4. Heat & Mass Transfer
5. Thermodynamics
6. Basic Electrical Engineering
7. Boilers and Steam Generation
8. Refrigeration & Air-conditioning
9. Dairy Engineering
10. Dairy process Engineering
11. Instrumentation & Process control
12. Material strength & Dairy Machine Design
13. Food Engineering
14. Energy conservation and management
15. Dairy Plant Design and Layout

**B.Tech (DIARY TECHNOLOGY) PAPER-II**

**1. Dairy Chemistry**

1. Physico-chemical properties of milk
2. Chemistry of milk lipids
3. Chemistry of milk proteins
4. Enzymes in dairy industry
5. Role of milk in Human nutrition
6. Chemical Quality Assurance
7. Food Chemistry

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**2. Dairy Microbiology**

- 1. Microbiological deterioration of milk and milk products
- 2. Probiotics used in dairy industry
- 3. Microbiology of Dairy Products
- 4. Starter cultures and fermented milk products
- 5. Quality and safety monitoring in Dairy Industry
- 6. Food and Industrial Microbiology

**3. Dairy Business Management**

- 1. Milk Production Management and Dairy Development
- 2. Communication Skills
- 3. Environmental Studies
- 4. Economic Analysis
- 5. Computer and Application software Packages
- 6. Fundamentals of Dairy Extension
- 7. ICT in Dairy Industry and Operation Research
- 8. Marketing Management & International Trade
- 9. Financial management and cost Accounting
- 10. Entrepreneurship Development
- 11. Industrial Statistics

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