



One week Advanced MDP Programme on
**"Dairy processing: Technological advances,
Challenges and Way forward for Dairy
Entrepreneurs"**
16 to 20 Feb 2026

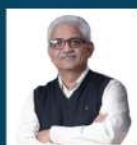
Organized by
Department of Food Process Engineering &
Foundation for Technology and Business
Incubation (FTBI)
National Institute of Technology Rourkela

Sponsored by
Ministry of MSME, Government of
India under
The Entrepreneurship and Skill
Development Programme (ESDP)

Course Highlights

The objective of the course is to enrich the understanding of current entrepreneurs and related individuals, fostering advancements in dairy processing techniques and expanding entrepreneurship opportunities within this sector.

Organizing Committee



Patron
Prof. K. Umamaheshwar Rao
Director, NIT Rourkela.



Co-Chairman
Prof. Subrata Kumar Panda
Professor
Mechanical Engineering
President FTBI, NIT Rourkela



Co-Chairman
Prof. Sabyasachi Mishra
Professor and Head, Department
of Food Process Engineering,
NIT Rourkela



Course Coordinator
Dr. Dibyakanta Seth
Assistant Professor
Department of Food Process
Engineering, NIT Rourkela



Course Coordinator
Dr. Preetam Sarkar
Associate Professor
Department of Food Process
Engineering, NIT Rourkela

Registration Link: https://docs.google.com/forms/de/1FAIpQLScZkxg3ZSHdekJ7VDq5VY_s7qVfG1k6av8qOgWGYGMzEDkUHQ/viewform?usp=header



ABOUT NIT ROURKELA

National Institute of Technology Rourkela is an Institute of National Importance established under an Act of Parliament. The institute is ranked in the 271–280 band in the QS Asia University Rankings and 13th in NIRF (Engineering) 2025.

NIT Rourkela offers undergraduate, postgraduate, and Ph.D. programmes across 21 engineering disciplines. Its research centres actively collaborate with leading government agencies such as ANRF, DST, DBT, CSIR, DRDO, BARC, ISRO, and various private industries, contributing significantly to research, consultancy, and innovation.

DEPARTMENT OF FOOD PROCESS ENGINEERING

The Department of Food Process Engineering at NIT Rourkela offers B.Tech., M.Tech., and Ph.D. programmes, integrating engineering principles with food science. The department focuses on advanced research in food quality and safety, post-harvest operations, product and process development, packaging and storage, process control, automation, and energy-efficient manufacturing systems.

The Advanced Management Development Programme (Advanced MDP): Key Aims

- To promote entrepreneurial culture and self-employment mindset among youth
- To motivate men and women, including SC, ST, Women, Differently-Abled Persons, Ex-Servicemen, and BPL candidates, to consider entrepreneurship as a viable career option
- To enable participants to think and act entrepreneurially through early-stage exposure to technical and business skills
- To provide basic entrepreneurship training that brings attitudinal and behavioral change and enhances personal entrepreneurial competencies
- To provide advanced entrepreneurship and management training in emerging and high-growth domains
- To upgrade technical and vocational skills of participants for enterprise creation and sustainability
- To support establishment of new MSMEs and growth of existing enterprises, leading to increased productivity and employment generation
- To facilitate Udyam Registration of ESDP beneficiaries through Implementing Agencies
- To provide vocational exposure and government working experience to MBA/Engineering students, along with stipend and experience certificates

Deliverables :

- Project development, financial planning, credit linkages and MSME support scheme
- Regulatory standards on Milk and Milk products
- Sustainable processing, energy efficient and modern manufacturing practices
- Experience sharing through expert sessions, case studies, and industry interaction

Event Schedule

16.02.2026 - Monday

- 09.00 AM-09.45 AM** **Registration**
- 10.00 AM- 10.40 AM** **Inaugural ceremony**
- 11.00 AM-12.00 PM** **Physical-chemistry of Milk, Concept of A1 and A2 Milk**
Dr. Subrota Hati, Associate Professor, SMC College of Dairy Science, Kamdhenu University, Anand, Gujarat
- 12.00 PM – 01.00 PM** **How to Start a Small-Scale Milk Processing Unit?**
Dr. Dibyakanta Seth, Assistant Professor, Dept. of Food Process Engineering
- 02.00 PM- 05.00 PM** **A tutorial on Detailed Project Report (DPR) preparation in the dairy processing sector for MSME Start-ups**
Mr. Debashis Tripathy, Sr. Manager - Cluster Development, KIIT TBI Bhubaneswar

17.02.2026 - Tuesday

- 09.30 AM-10.30 AM** **Intervention of Biotechnology in Enhancing Quality Milk Production**
Dr. Subrota Hati, Associate Professor, SMC College of Dairy Science
- 10.30 AM – 11.30 AM** **Dairy Products, By-products and Waste-products Processing Technologies**
Prof. Preetan Sarkar, Associate Professor, Dept. of Food Process Engineering
- 11.30 AM – 12.30 PM** **The Intervention of Plant Proteins in Milk Industry: A Technological Perspective**
Dr. Rachna Sehrawat, Assistant Professor, Dept. of Food Process Engineering
- 01.30 PM – 04.30 PM** **Demonstration of microfluidizer and cold-plasma for application in milk processing**

18.02.2026 - Wednesday

- 09.30 AM-10.30 AM** **Innovative Dairy Technologies for Prospective Entrepreneurs**
Dr. P. Narender Raju, Senior Scientist, National Dairy Research Institute
- 10.30 AM – 11.30 AM** **Advancement in Fermented Milk Products- Concept of Probiotic, Prebiotic and Postbiotic**
Dr. Samlesh Kumari, Scientist, ICAR-Central Institute of Agril Engineering Bhopal
- 11.30 AM – 12.30 PM** **From Traditional Practices to Smart Technologies: Dairy Processing Equipment Innovations for Entrepreneurs**
Dr. Lalit Mohan Bal, Associate Professor, Bihar Animal Science University, Patna
- 01.30 PM – 02.30 PM** **Opportunities in Milk Processing for Emerging Entrepreneurs**
Dr. Shaik Abdul Hussain, Scientist, National Dairy Research Institute, Karnal
- 02.30 PM – 05.00 PM** **Conducting Pilot test of milk-A hands on practice**

Event Schedule

19.02.2026 - Thursday

- | | |
|---------------------|---|
| 09.30 AM-10.30 AM | Innovative Packaging Technologies for Dairy Products
Dr. P. Narender Raju, Senior Scientist, National Dairy Research Institute |
| 10.30 AM – 11.30 AM | Entrepreneurial and Marketing Approaches for MSME Competitiveness
Prof. Rajiv Kumar Panda, Professor, School of Management |
| 11.30 AM – 12.30 PM | Non-thermal Processing of Milk and Milk-based Beverages
Dr. Madhuresh Dwivedi, Associate Professor, Dept. of Food Process Engineering |
| 01.30 PM – 04.30 PM | Spray Drying of Milk and Demonstration of FFS machine, Can filling machine |

20.02.2026 - Friday

- | | |
|---------------------|---|
| 09.30 AM-10.30 AM | Automation in milk industry- Intervention of AI-ML
Dr. Bhupendra M Ghodki, Assistant Professor, IIT Kharagpur |
| 10.30 AM – 11.30 AM | Plant-based milk alternatives an emerging segment of functional beverages
Dr. Samlesh Kumari, Scientist, ICAR-Central Institute of Agril Engineering Bhopal |
| 11.30 AM – 12.30 PM | Laboratory on milk product development |
| 01.30 PM – 02.30 PM | Feedback of the participants and certificate generation |
| 02.30 PM – 03.30 PM | Valedictory function |

NIT Rourkela Map

