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- Lecture 2 - Blanching, Pasteurization, Ultra-pasteurization, Hot fill and UHT
- Lecture 3 - Thermal processing equipment
- Lecture 4 - Milk pasteurization
- Lecture 5 - Canning operations
- Lecture 6 - Temperature distribution and heat penetration
- Lecture 7 - Kinetics of reactions
- Lecture 8 - F value and process requirements
- Lecture 9 - Quality considerations and process optimization
- Lecture 10 - Shelf life studies
- Lecture 11 - Validation of heat processes
- Lecture 12 - Fundamentals of aseptic processing
- Lecture 13 - Aseptic equipment design
- Lecture 14 - Aseptic process design
- Lecture 15 - Microwave and radio frequency heating
- Lecture 16 - Ohmic heating
- Lecture 17 - Overview of non-thermal processing technologies
- Lecture 18 - Advanced separation processes
- Lecture 19 - High pressure dialysis, ultrafiltration and reverse osmosis
- Lecture 20 - Nanofiltration, electrodialysis and membrane separation
- Lecture 21 - Various types of heat exchangers for food process engineering
- Lecture 22 - Various types of driers for food process engineering
- Lecture 23 - Importance and applications of extrusion technology in food processing
- Lecture 24 - Changes of properties and functional components of extruded foods
- Lecture 25 - Food biosensors
- Lecture 26 - Types of functional foods: Probiotics and nutraceuticals
- Lecture 27 - Packaging considerations: Barrier and mechanical properties of food packaging materials
- Lecture 28 - Biocomposite/bionanocomposite materials for food packaging applications
- Lecture 29 - Sanitary components and requirements
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Lecture 9 - Ecological Methods of Pest Management - Legal and Cultural

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Lecture 11 - Ecological Methods of Pest Management - Cultural (Continued...)

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Lecture 29 - Food guide for selecting adequate diet, practical aspects of food selection

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Lecture 35 - Principles of therapeutic diet

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DIGIMAT - The No.1 Autonomous Learning Platform for Creative Learning

NPTEL : NOC:Weather Forecast in Agriculture and Agro-advisory (WF) (Agriculture)

Co-ordinators : Dr. R. Nagarajan, Co Faculty, Dr.T.N.Balasubramanian (Rtd.), Instructor Incharge

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Lecture 23 - Development and component of agro advisory for weather forecast (Continued...)

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Lecture 28 - Development of selected weather window for issuing agro advisory - case study from Tamil Nadu

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Lecture 9 - Phones, Smart Phones, Phablets, Tablets

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Lecture 12 - Network Architectures - Part-2 (Overview of Network Architecture)

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Lecture 19 - Flow of film or film flow

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Lecture 33 - Performance of weeding blades of a push-pull weeder

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Lecture 38 - Selection and design of plant protection equipment/machinery

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