



National Agriculture Higher Education Project  
Centre of Excellence : Digital Farming Solutions for Enhancing Productivity by  
Robots, Drones and AGV's (DFSRDA)

Vaswantrao Naik Marathwada Krishi Vidyapeeth, Parbhani (M.S.) INDIA

Two Week Online Certificate Course

on

**“FOOD PROCESSING & AUTOMATION”**

Organised in collaboration with

Chamber for Advancement of Small & Medium Businesses (CASMB), Mumbai

& NAHEP-CAAST DFSRDA, VNMKV, Parbhani

02<sup>nd</sup> to 14<sup>th</sup> August, 2021



## About University

The Marathwada Krishi Vidyapeeth (Presently renamed as Vasantrya Naik Marathwada Krishi Vidyapeeth) established in 1972 on Land Grant pattern at Parbhani to fulfill the regional aspirations of fields, undertake research and facilitate technology transfer in marathwada region of Maharashtra.

Vasantrya Naik Marathwada Krishi Vidyapeeth (VNMKV) Parbhani, is one of the prestigious agricultural universities in India. Since its inception, it has gained recognition as an innovative organization in the term of education and research in agriculture. It takes care of research and facilitates agriculture technology transfer in marathwada region of Maharashtra .

## About Project & Course Background :

The Centre of excellence for Digital Farming solutions for Enhancing Productivity by Robots, Drones and AGV's (DFSRDA) Under Center for Advanced Agricultural Science and Technology (CAAST) is being implemented in Vasantrya Naik Marathwada Krishi Vidyapeeth, Parbhani, Maharashtra under world bank Sponsored National Agricultural Higher Education Project (NAHEP) of Indian Council of Agricultural Research (ICAR), New Delhi, Government of India, Since 2019. The main objective of this center is to train PG/PhD students and faculties about advances in science and technology. The project is proposed on 50:50 cost sharing basis between the World Bank and the Government of India, implemented at VNMKV, Parbhani. India's food ecosystem offers huge opportunities for investments with stimulating growth in the food retail sector, favorable economic policies and attractive fiscal incentives. The food & grocery market in India is the sixth largest in the world. Food & grocery retail market in India further constitutes almost 65% of the total retail market in India. Food Processing includes process under which any raw product of agriculture, dairy, animal husbandry, meat, poultry or fishing is transformed through a process (involving employees, power, machines or money) in such a way that its original physical properties undergo a change and the transformed product has commercial value and is suitable for human and animal consumption. An introduction of high-tech food processes such as automation in food materials harvesting, handling, processing, packaging, storage, transportation and

distribution to increase the quality, yield, diversity of products and also to enhance their shelf life.

As a part of this project, Centre of excellence for Digital Farming solutions for Enhancing Productivity by Robots, Drones and AGV's (DFSRDA), VNMKV, Parbhani is organizing Two Week Online Certificate Course on "FOOD PROCESSING & AUTOMATION"

## Objectives

1. Provide knowledge of advanced food processing automation technologies.
2. Impart knowledge about the global food processing scenario and value addition in food processing industries.
3. Generate understanding about global food safety and quality standards.
4. Expose the participants for advanced processing, packaging methods, marketing strategies and export systems.
5. Encourage the participants for establishing processing units.

## Contents

- Industry 4.0
- Enhance food quality, operational productivity and compliance
- IoT in food trade& retail management
- Inventory Management
- Supply chain management, Traceability and product recall
- Design and implementation of Industry 4.0 solutions in traditional factory settings
- R&D innovation in food processing
- Food traceability solution and block chain management
- Certification and accreditation essential
- Food safety and quality management
- Packaging Technology
- Quality Assurance
- HACCP/ISO/Auditing Procedures
- Fruits & Vegetable Processing
- Standard Operating
- Regulatory Compliances
- Marketing, Sales & Branding
- 3D Food Printing

## Methodology for conduct of course:

### Pre and Post Evaluation:

Pre and post certificate course evaluation will be carried out to evaluate the impact of the certificate course.

### Conduct of the Certificate course:

The certificate course will consist of online lectures-cum-discussions, demonstrations, tutorials, case studies, experience sharing from progressive farmers; PG, Ph.D. Scholar, Food entrepreneurs in relation to value addition through food processing and automation technologies .

### Evaluation :

There will be evaluation of the candidates at the end of the each week, and final evaluation towards the end of the course. The evaluation will be in the form of MCQs, descriptive questions and power point presentation, as the case may be.

### Feedback:

Candidates need to provide the feedback towards the end of certificate course.

## Target Audience

PG, Ph.D. Students, Faculties, Scientists of Vasantrya Naik Marathwada Krishi Vidyapeeth, Parbhani and other Universities, in the area of Food processing, Horticulture, Processing & Food Engg., Food Technology, Agricultural Processing Engg. Agriculture Engineering., Home Science & allied relevant etc. Departments are eligible to register and are requested to take advantage of the two week online certificate course on food processing automation.

## About Selection

- 1) The Whatsapp Group of the selected candidates will be formed at least one day before the start of the E-course and the communications regarding the E-course will be posted in the group.
- 2) Alternatively Candidates can keep accessing the CAAST-VNMKV website (<https://nahep.vnmkv.org.in>) regarding the selection, preferable on the day before the start of the seminar.
- 3) Lead lectures through online platform will be conducted along with online interaction. The link, ID and password for joining the online session will be communicated through Whatsapp group of the selected candidates 30 minutes before the start of the session.
- 4) Certificates will be issued to those participants only who will complete all online session and assignments.

## Registration

### Duration of E-course:

02<sup>nd</sup> to 14<sup>th</sup> August, 2021 (Two Weeks)

### Registration Fee (Non Refundable):

#### Course Fee:

Rs. 1000/- for All Participants.

### International Participant 15 USD

### Account Details :

**Account Name** : Comptroller, Vasantrya Naik Marathwada Krishi Vidyapeeth, Parbhani  
**Account Number** : 38639565001  
**Bank Branch** : State Bank of India,  
**Branch: MKV, Parbhani (MS) India.**  
**IFSC Code** : SBIN0020317  
**MICR Code** : 431002203

### SCAN & PAY



### Important Dates:

Interested participants can register on below mentioned link, for the online registration is, [https://docs.google.com/forms/d/e/1FAIpQLSeb\\_PZLbVEzy7qrgZ0JPDnTjvjrTrA9tBpe7uHB5sdWQDhIOQ/viewform](https://docs.google.com/forms/d/e/1FAIpQLSeb_PZLbVEzy7qrgZ0JPDnTjvjrTrA9tBpe7uHB5sdWQDhIOQ/viewform)

or use QR code provided here.



Last date of registration : August 01, 2021

Course Language: English

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**02<sup>nd</sup> to 14<sup>th</sup> August, 2021**

**Patrons**



**Dr. A. S. Dhawan**  
Vice-Chancellor  
VNMKV, Parbhani



**Dr. R. C. Agrawal**  
National Director  
NAHEP, ICAR, New Delhi

**Chief Convenors**



**Dr. D. N. Gokhale**  
DI & Dean F/A  
VNMKV, Parbhani



**Dr. Prabhat Kumar**  
National Co-ordinator  
NAHEP, ICAR, New Delhi

**Convenor**



**Dr. G.U. Shinde**  
Principal Investigator  
NAHEP-CAAST-DFSRDA  
VNMKV, Parbhani



**Mr. Nilesh Lele**  
President,  
CASMB, Mumbai

**Organizing Secretary**



**Dr. A. S. Kakade**  
SRF (FPA), NAHEP,  
VNMKV, Parbhani  
M. 8087520720



**Mr. Umesh Kamble**  
Secretary General,  
CASMB, Mumbai  
M. 9619190563

**Co-Organizing Secretary**



**Dr. H. N. Rokade**  
SRF (SSPN), NAHEP,  
VNMKV, Parbhani  
M. 9881775095

**Training Coordinator**

**Er. Chetan Eske**  
JRF (FPA), NAHEP,  
VNMKV, Parbhani  
M. 9479950299

**Er. A. R. Deshmukh**  
JE (Elec.), NAHEP,  
VNMKV, Parbhani  
M. 8983033489



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**EXPERTS SCHEDULE**

Sr. No.	Date	Time	Speaker	Topic	Photo
<b>Week 1</b>					
1	02/08/2021	3 Pm to 5 Pm	<b>Mr. Satyawart Kulkarni,</b> Technical Director/R&D Innovation, Farm to Fork Solutions.	Enhance food quality, operational productivity and compliance	
2	03/08/2021	3 Pm to 5 Pm	<b>Mr. Vinay Singh,</b> Senior Data Science Manager, BASF SE, Germany.	IOT in food trade & retail management	
3	04/08/2021	3 Pm to 5 Pm	<b>Dr. Sagar Gokhale,</b> Ojman Foodbio, Co-founder and partner.	Inventory Management	
4	05/08/2021	3 Pm to 5 Pm	<b>Mr. Aniket Gawai,</b> Doctoral Researcher & Academic Mentor, University of Reading, UK Food Supply Chain Transparency & Traceability using Blockchain Technology	Food traceability solution and blockchain management	
5	06/08/2021	3 Pm to 5 Pm	<b>Mr. Raj Kumar,</b> Consultant, Auditor, Training & Certifications	Design and implementation of Industry 4.0 solutions in traditional factory settings	



Sr. No.	Date	Time	Speaker	Topic	Photo
<b>Week 2</b>					
6	09/08/2021	3 Pm to 5 Pm	<b>Mr. Sanjay Indani,</b> Lead auditor ISO 22000, FSSC 22000, ISO 9001, BRC-FOOD, SA 8000, NRP FoSTaC-FSSAI, APEDA Consultant-Food Safety.	Supply chain management, Traceability and product recall	
7	10/08/2021	3 Pm to 5 Pm	<b>Mr. Ritesh Mathur,</b> Senior level leading R&D for McDonalds, Danone, General Mills, Givaudan, Godfrey Phillips and Raptakos & founder of F2F Solutions	R&D innovation in food processing	
8	11/08/2021	3 Pm to 5 Pm	<b>Ms. Chinmayee Deulgaonkar,</b> Managing Director at FoodChain ID (SWA).	Certification and accreditation essential	
9	12/08/2021	3 Pm to 5 Pm	<b>Ms. Subhpradha Nishthala,</b> Director Incharge at ITCFSAN President of AFST-Mumbai Chapter	Food safety and quality management	
10	13/08/2021	3 Pm to 5 Pm	<b>Mr. Sukanta Bhattacharyya,</b> Head of Packaging - Packaging Consultant Role at ORAC Lifesciences Pvt. Ltd.	Packaging Technology	

