



ICAR NAHEP Sponsored

Training Programme  
on

**Dairy Farm Mechanization and Automation**

February 19-21, 2020



### ORGANIZED BY

Centre for Advanced Agricultural  
Science and Technology (CAAST)  
Directorate of Research  
Navsari Agricultural University  
Navsari-Gujarat (INDIA)  
[www.nau.in](http://www.nau.in)

### Venue

Conference Hall, Veterinary College  
Navsari Agricultural University, Navsari-396 450  
Gujarat

## NAHEP-CAAST

Centres for Advanced Agricultural Science and Technology (CAAST) is a new initiative and student centric sub-component of “National Agricultural Higher Education Project (NAHEP)” implemented by Indian Council of Agricultural Research and funded by Government of India as well as World Bank. The Navsari Agricultural University, Navsari, Gujarat bagged a CAAST project entitled “Establishment of Secondary Agriculture Unit for skill development in Students and Farmers” on competitive basis during 2017-18. Secondary Agriculture is often regarded as the sunrise sector of Indian economy owing to its immense untapped potential. Secondary Agriculture sector has a major role to play in employment generation, poverty alleviation and product diversification including waste utilization.

## BACKGROUND

India is the largest milk producing country in the world with milk production of 187.75 MMT (2018-2019) and it has grown @ 6.5 percent per annum during this period. Dairy farming in India is mainly low input and low-to-moderate output type. Indian dairy sector has challenges at two fronts as under drivers of development change it is expected to produce more milk to fulfil the rapid increase in demand of milk and milk products and it has to minimize adverse effect of climate change on dairy animals. In recent years, traditional dairy farms have given way to commercial dairy farms with higher average production, adoption of newer farming tools and techniques. If implemented & practiced scientifically, commercial dairy farming is capable of giving a higher return on the investment. Dairy farm mechanization and automation is one of such important attributes of modern commercial dairy farms. Automation is the use of mechanical and electronic equipment to increase work efficiency. The automatic systems most commonly used in dairy production systems includes identification, milking, cleaning, feeding, reproduction, health management, welfare assessment and better social circumstances for the dairy farmers. To improve productivity at the farm level of investments in new technology are needed and across the globe, the trend towards fewer, larger

dairy operations continues. Therefore, looking into the importance of the topic CAAST-NAU is organizing a three days training programme on “Dairy Farm Mechanization and Automation” at NAU, Navsari during February 19-21, 2020.

## OBJECTIVES

This training programme has been conceptualized to acquaint students about status and scope of dairy farm mechanization and automation, farm data management, application of ICT tools and artificial intelligence in production and health management of dairy animals and technological advancements in commercialization of Indian traditional dairy products.

## COURSE CONTENT

This training will broadly cover diverse topics related to avenues of dairy farm mechanization and automation *viz.*

- Status and scope of dairy farm mechanization & automation
- Big data analytics and dairy farming
- Blockchain technology for Indian dairy sector
- Marketing intelligence
- Status and scope of artificial intelligence in dairy farming
- Milk and milk product diversification
- ICT tools for dairy farm automation and dissemination of knowledge etc

## DURATION

This is three days residential training programme, which includes interactive lectures, practicals and exposure visit.

## ELIGIBILITY

Postgraduate students from Agriculture/Forestry/Veterinary Sciences/Horticulture/ABM faculties of Navsari Agricultural University and other SAUs are eligible for this course. The candidate should have scored at least 60% marks in any of the above degrees. Total 35 seats are available in this training, which would be distributed as under:

**A. Currently enrolled PG students of NAU & other SAUs : 20**

**B. Former PG students of NAU & other SAUs : 15**

If seats remain vacant in category A, they would be filled from category B and vice versa. Selected PG CAAST students interested in attending this training have to submit their application directly at the CAAST Secretariat.

## REGISTRATION FEES

There is no registration fee for this course. This training course is fully funded by NAHEP-CAAST.

## HOW TO APPLY

Interested candidates can register in the training by filling an online form by pasting this link in URL <https://forms.gle/a67Yy2ukuhhY4DFV8>. However, they can also apply through offline by submitting the duly filled and signed Registration Form along with the NOC through post or by hand in a sealed cover. Application for participation in “Application for Participation in training programme on “Dairy Farm Mechanization and Automation” should be mentioned on the cover.

## IMPORTANT DATES

**Last date for registration : February 15, 2020**

**Date for displaying eligibility list : February 16, 2020**

## ABOUT INSTITUTE

The Navsari Agricultural University campus is located 3 km away from the Navsari City in the West direction. The Campus houses various graduates and post graduates colleges in faculties of Agriculture / Forestry / Veterinary Sciences/Horticulture/Agribusiness Management. NAU has made remarkable growth in its tripartite activities *i.e.* Education, Research and Extension Education and simultaneously also made tremendous growth in infrastructure and Human Resource Development since its inception. The University has a strong research base through its 25 research stations at 15 different location of South Gujarat. Further, NAU involved in transfer of the new agricultural technology in the farmers field through five Krushi Vigyan Kendras. This University also arranges short duration certificate courses on Bakery, Agricultural Extension Services for Input dealers, Landscaping and Gardening, Nature and Wild life photography, Turf grass management and Agro ITI for enhancing the skill in rural youths.

## ABOUT NAVSARI

Navsari is district place in Gujarat and easily approachable by road, rail and air from all major cities of India. It is just 38 km away from Surat, a major industrial corridor connected by road and railways. The nearest airport is Surat which is 40 km to the North of Navsari. The 400 km long Salt March taken up by Mahatma Gandhi in 1930 culminated at Dandi a coastal village 13 km to the West of Navsari where National Salt Satyagraha Memorial at Dandi located.

## BOARDING AND LODGING:

Accommodation in campus premises will be made available on request on the basis of payment.

## **ADDRESS FOR CORRESPONDANCE:**

Directorate of Research

Navsari Agricultural University, Navsari (Gujarat)-396 450

E-mail: naucaast@gmail.com, Contact No.: 9879124272

## **ORGANIZERS**

### **Course Director:**

**Dr. T. R. Ahlawat**

PI and Nodal officer: NAHEP-CAAST sub project

NAU, Navsari, E-mail: tahlawat4@gmail.com, Mob: 9879124272

### **Course Co-Director**

**Dr. Rana Ranjeet Singh,**

Associate Professor & Head (LPM), VCVS & AH, NAU, Navsari,

E-mail: drexPLICIT@gmail.com, Mob: 9099062296

### **Course Co-ordinators:**

**Dr. N. B. Patel,** Research Scientist, LRS, NAU, Navsari

**Dr. Swati Gupta,** Assist. Prof. (LPT), VCVS & AH, NAU, Navsari

## **LOCAL ORGANIZING COMMITTEE:**

**Dr. V. M. Thumar,** PP-Procurement, CAAST, NAU, Navsari

**Dr. L. V. Ghetiya,** Co-PI, CAAST, FQTL, NMCA, NAU, Navsari

**Dr. Dev Raj,** Co-PI, CAAST, PHT, ACHF, NAU, Navsari

**Dr. R. P. Gunaga,** Co-PI, CAAST-NAU, College of Forestry, NAU, Navsari

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**Dr. Susheel Singh,** Co-PI, CAAST, NMCA, NAU, Navsari

**Dr. Vipul B. Parekh,** Co-PI, CAAST, CoF, NAU, Navsari

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**Dr. Chirag Desai,** Co-PI, CAAST, SWMRU, NAU, Navsari

**Dr. Shailendra Viyol,** PP-ES, CAAST, CoF, NAU, Navsari

**Mr. K. S. Choudhary,** Nodal Officer-GRM, CAAST, NAU, Navsari





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\*Affix Self Attested  
Recent Passport size  
Photograph

## REGISTRATION FORM

Full Name (In Block letters) \_\_\_\_\_

Father Name: \_\_\_\_\_

Date of Birth:        /        /        (DD/MM/YYYY)

Gender: Male/Female

Social Category: (✓) (General ☐ / OBC ☐ / SC ☐ / ST ☐ )

**Application Category: (✓)**

Selected CAAST PG Student ☐

Currently enrolled NAU-PG students ☐

Former PG students of NAU ☐ and SAUs ☐

\*Educational Qualification (attach proof): \_\_\_\_\_

\*CGPA in Graduation: .....

\*CGPA in Post-Graduation: .....

### Communication Address

Current: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_

Pin code: \_\_\_\_\_

Permanent address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Pincode: \_\_\_\_\_

Contact No:(Mo.) \_\_\_\_\_

E-mail: \_\_\_\_\_

Please indicate your Primary Area of Interest: \_\_\_\_\_

\*Accommodation required: Yes/No \_\_\_\_\_

Date:

Place:

Signature of the Applicant

\*Mandatory field