



ICAR – National Agricultural Higher Education Project (NAHEP)

Centre for Advanced Agricultural Science and Technology (CAAST)

*Centre of Excellence for Advanced Research on Animal Food Safety*

Mumbai Veterinary College, Parel, Mumbai-400 012

Maharashtra Animal & Fishery Sciences University, Nagpur-440 001



Newsletter

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## *Message from Team Leader*

*The NAHEP-CAAST team has achieved tremendous outcome for the Mumbai Veterinary College and MAFSU since inception of this project. Despite the pandemic, the team has worked day and night to keep the herculean task of purchase process on track. The task of recruitment of the project staff has also been successfully done well within time. Several state-of-art instruments have been purchased which will definitely make this centre as a focal point of the area of food safety. I would also like to appreciate the team for conducting various training programs for the staff members and students of the University across the country. I highly appreciate the efforts taken by the project team to execute the Memorandum of Understandings between Washington State University, Pullman USA and Maharashtra Animal and Fishery Sciences University which will have a long-lasting impact on the overall development of the University. It is my firm belief that the team would work hard in the times to come to make this project a grand success.*



**Col. (Dr.) Prof. A. M. Paturkar**  
Vice-Chancellor  
MAFSU, Nagpur

## **STEP TOWARDS THE SKILL DEVELOPMENT**

Skill development is the process of filling the skill gap in students and providing the training to improve their skills and employability. Therefore, two online trainings were organized by “Centre of Excellence for Advanced Research on Animal Food Safety” for the students to improve their soft skills and professional etiquettes.

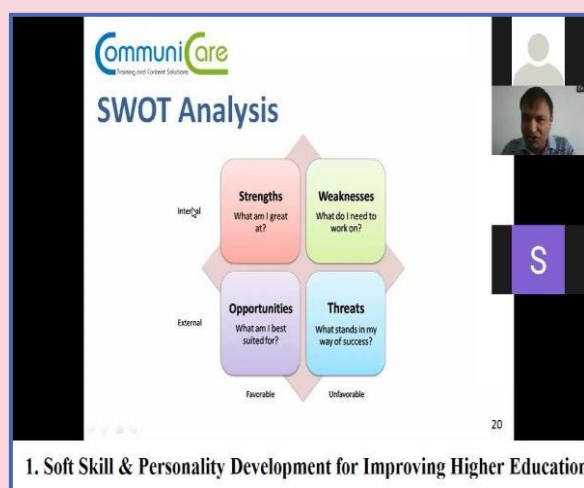
## *“Soft Skill and Personality Development for Improving Higher Education”*

Along with formal education, an overall social development is imperative. With this agenda in mind, a training was organized on “Soft Skill and Personality Development for Improving Higher Education” from 13/01/2021 to 16/01/2021 for the PG and Ph.D. students of the MAFSU, Nagpur.

The inaugural program was graced by Col. (Dr.) Prof. A. M. Paturkar, Hon’ble Vice-Chancellor, MAFSU, Nagpur; Dr. R. C. Agrawal, DDG (Education) & National Director, NAHEP, ICAR, New Delhi; Dr. Prabhat Kumar, National Co-Ordinator, NAHEP-CAAST, ICAR, New Delhi; Dr. A. P. Somkuwar, DI & Dean, Faculty of Veterinary Science, MAFSU, Nagpur; Dr.

N. V. Kurkure, Director of Research, MAFSU, Nagpur; Dr. V. D. Aher, Director of Extension Education, MAFSU, Nagpur, and Dr. P. G. Wasnik, Dean, Faculty of Dairy Technology, MAFSU, Nagpur. Dr. A. S. Rande, Associate Dean and Dr. R. J. Zende, PI, NAHEP-CAAST were the Course Directors of the program.

The training was conducted by the eminent speaker Prof. Kushal Raut. Prof. Raut is a motivational speaker and corporate trainer with 18 years of experience in both the corporate and academic sectors.



The four days training was focused on the rooting good communication skills, time and stress management practices among the students. Mr. Raut expressed his views by citing personal experiences and sharing his vast knowledge. The training was concluded by fruitful interaction between participants and speaker. The training was beneficial for about 241 students across the University.

## Important Meetings Attended

PIU-NAHEP time to time conducted a procurement review meeting to assess the progress of procurement activities of the project. Dr. R. J. Zende, Principal Investigator, all the Co-PIs and Nodal Officers NAHEP-CAAST were attended the procurement meeting held on 15<sup>th</sup> January and 18<sup>th</sup> January, 2021. The meetings were conducted online due to the Covid-19 pandemic. The meeting was focused on the discussion of procurement status of financial year 2020-21. Dr. R. C. Agrawal, National Director, NAHEP and DDG (Education) ICAR, New Delhi; Dr. Prabhat Kumar, National Co-ordinator, NAHEP-CAAST, ICAR, New Delhi; Shri. Dilip Roy, Deputy Secretary, ICAR-NAHEP-CAAST conducted the meeting. Dr. R. J. Zende, Principal Investigator and Dr. V. M. Vaidya, Nodal officer, procurement cell presented the status of procurement done under the project.



## ORGANIZATION OF TECHNICAL TRAININGS

### National e-training on “Development of Professional Etiquettes and Soft Skills for Improving Higher Education”

The inculcation of professional etiquettes and soft skills are the primary requirements for excelling in the industry and academics. This e-training program was intended to address the concern of students for improving professional etiquettes. Hence the training on “Development of Professional Etiquettes and Soft Skills for Improving Higher Education” was organized under NAHEP-CAAST from 25/01/2021 to 29/01/2021. The training was focused on introducing the students to the formalities of the workplace.



The inaugural program was graced by Col. (Dr.) Prof. A. M. Paturkar, Hon'ble Vice-Chancellor, MAFSU, Nagpur; Dr. R. C. Agrawal, DDG (Education) & National Director NAHEP, ICAR, New Delhi; Dr. Prabhat Kumar, National Co-Ordinator, NAHEP-CAAST, ICAR, New Delhi; Dr. A. P. Somkuwar, DI & Dean, Faculty of Veterinary Science, MAFSU, Nagpur; Dr. N. V. Kurkure, Director of Research, MAFSU, Nagpur; Dr. V. D. Aher, Director of Extension Education, MAFSU, Nagpur and Dr. P. G. Wasnik, Dean, Faculty of Dairy Technology, MAFSU, Nagpur.

Dr. (Prof.) A. S. Ranade, Associate Dean, Mumbai Veterinary College, Mumbai gave the welcome address and Dr. R. J. Zende, PI, NAHEP-CAAST-MAFSU briefed about the program. The targeted audiences were post graduate students and Ph.D. scholars from the different constituent colleges of MAFSU.

The speaker Prof. Kushal Raut, a corporate trainer and motivational speaker, elaborated various important topics related to improvement of soft skills and professional etiquettes. Technical session was followed by interactive sessions where queries from the participants were answered. A total of 67 candidates were benefited through the training.



## **National e-training on “Recent Advances in Quality Assurance of Meat and Meat Products”**

One-week National e-training program on “Recent Advances in Quality Assurance of Meat and Meat Products” was organized from 1<sup>st</sup> to 5<sup>th</sup> February, 2021 with an objective to highlight recent information on the various aspects related to quality assurance of the meat and meat products. Faculties, PG and Ph.D. students in the relevant subjects, industry personnel viz. personnel working in slaughter houses, meat processing plant, veterinarians were the target audience for the training program. The training program was attended by about 150 participants across the country including faculty members from the different colleges.

The training was graced by Col. (Dr.) Prof. A. M. Paturkar, Hon’ble Vice-Chancellor, MAFSU, Nagpur; Dr. R. C. Agrawal, DDG (Education) & National Director NAHEP, ICAR, New Delhi; Dr. Prabhat Kumar, NC, NAHEP-CAAST, ICAR, New Delhi; Dr. A. P. Somkuwar, DI & Dean Faculty of Veterinary Science, MAFSU, Nagpur; Dr. N. V. Kurkure, Director of Research, MAFSU, Nagpur; Dr. V. D. Aher, Director of Extension Education, MAFSU, Nagpur and Dr. P. G. Wasnik, Dean, Faculty of Dairy Technology, MAFSU, Nagpur. Dr. (Prof.) A. S. Ranade, Associate Dean, Mumbai Veterinary College, Mumbai welcomed the dignitaries and participants with his welcome address while Dr. R. J. Zende, PI, NAHEP-CAAST-MAFSU briefed about the training program.

The training session started with lecture of Dr. Manish Chatli who delivered his talk on “Current Status, Future Prospects and Challenges of Meat Industry in India”. Dr. Chatli gave in-depth insight about the present status and upcoming challenges of the meat sector in India and how it can contribute in improving the income of the farmers.

Dr. Manjunath Patel, talked on the “Introduction of the Innovative Techniques in Animal Husbandry for Production of Healthy Animals and Quality Meat”. He further stressed that production of quality meat starts from the farm and one has to adopt the recent techniques in animal husbandry for production of quality meat.

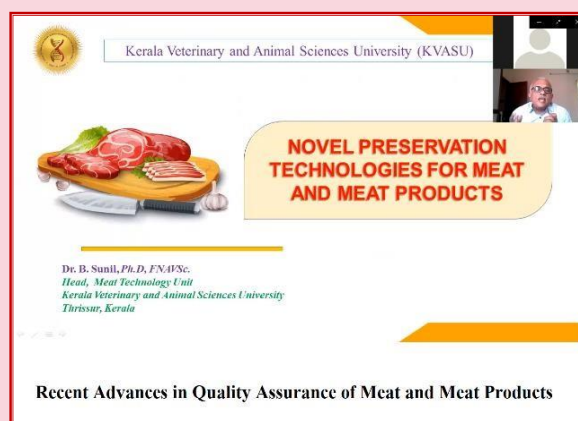
On Day 2, one lecture on “Techniques and Hygienic Practices during Slaughter and Meat Handling” was delivered by Dr. Girish Patil, Principal Scientist, ICAR-NRC on Meat Hyderabad who gave very detailed description of the slaughter techniques including the mandatory requirements for slaughter house. Another lecture on Day 2 was delivered by Dr. Zunjar Dubal, Senior Scientist, ICAR-IVRI on “Novel Methods of Microbial Detection in Meat and Meat Products” where he discussed about the various new techniques which can be used for the detection of pathogens and spoilage microorganism in meat and meat products.

On 3<sup>rd</sup> Day, Dr. B. Sunil, Professor and Head, Department of LPT and Meat Technology Unit, CVASc, Mannuthy, Kerala delivered very informative talk on “Novel Preservation Technologies for Meat and Meat Products” in which he discussed novel methods of preservation of meat and meat products. Dr. B. Sunil briefed about various methods which are still in infancy and are new to the industry.

Dr. J. S. Bedi, presented his lecture on “Application of ISO-22000 in Hygienic Buffalo Meat”. Dr. Bedi, Director, School of Public Health and Zoonoses, CVSc, GADVASU, Ludhiana gave an insightful lecture on the execution of ISO-2000 for the production of quality buffalo meat and how it can help to improve the export to the different destination.

On 4<sup>th</sup> Day of training Dr. Kiran Bhilegaonkar, Principal Scientist, ICAR-IVRI, Pune delivered his lecture “Microbiological Standards and Criteria for Animal Origin Foods” where he discussed various National and International microbiological standards for animal origin foods. He gave an in-depth description on FSSAI, Codex and ICMSF standards for the animal origin foods.

Dr. Guduri Babu, Joint Director, Indian Institute of Packaging delivered his lecture on “Recent Trends in Packaging of Meat and Meat Products”. He narrated the different new innovations in the packaging of meat and meat products such as intelligent and active packaging of meat and their applications.



### Recent Advances in Quality Assurance of Meat and Meat Products

On last day of training Dr. C. Latha, Dean, CVASc, Mannuthy, Kerala delivered her lecture on “Emerging and Re-Emerging Food Borne Pathogens”. She highlighted that the new pathogens can emerge due to the changing ecology and proximity of the humans with the wild animals which can enter through the food chain and there should be constant monitoring on such pathogens so as to protect the mankind from another pandemic.



### Details of the Training Program

Sr. No.	Name of the speakers	Topic Name	Date and Time
1.	<b>Dr. Manish Chatli</b> Dean, CVSc, Rampure Phul, GADVASU Punjab.	Current Status, Future Prospects and Challenges of Meat Industry in India	1/2/2021 10:45 am-11:45 am
2.	<b>Dr. Manjunath Patel</b> Principal Scientist, ICAR-IVRI, Bengaluru Campus, Hebbal Bengaluru	The Innovative Techniques in Animal Husbandry for Production of Healthy Animals for Food Purpose.	1/2/2021 11:45 am-12:45 pm
3.	<b>Dr. Girish Patil</b> Principal Scientist, ICAR-NRC on Meat Hyderabad	Techniques and Hygienic Practices during Slaughter and Meat Handling	2/2/2021 10:30 am-11:30 am
4.	<b>Dr. Zunjar Dubal</b> Senior Scientist, VPH Division, ICAR-IVRI, Izatnagar, UP	Novel Methods of Microbial Detection in Meat and Meat Products.	2/2/2021 11:30 am-12:30 pm
5.	<b>Dr. B. Sunil</b> Professor and Head Department of LPT and Meat Technology Unit, CVASc, Mannuthy, Kerala	Novel Preservation Technologies for Meat and Meat Products.	3/2/2021 10:30 am-11:30 am
6.	<b>Dr. J. S. Bedi</b> Director, School of Public Health and Zoonoses, CVSc, GADVASU, Ludhiana Punjab	Application of ISO-22000 in Hygienic Buffalo Meat Production.	3/2/2021 11:30 am-12:30 pm
7.	<b>Dr. Kiran Bhilegaonkar</b> Principal Scientist Training and Education Centre, ICAR-IVRI, Pune, Maharashtra	Microbiological Standards and Criteria for Animal Origin Foods.	4/2/2021 10:30 am-11:30 pm
8.	<b>Dr. Guduri Babu RaoJt.</b> Director, Indian Institute of Packaging Andheri East, Mumbai.	Recent Trends in Packaging of Meat and Meat Products.	4/2/2021 11:30 am-12:30 pm
9.	<b>Dr. C. Latha</b> Dean, CVASc Mannuthy, Kerala	Emerging and Re-Emerging Food Borne Pathogens.	5/2/2021 10:30 am-11:30 am
10.	<b>Dr. V. Appa Rao</b> Dean, College of Food and Dairy Technology, Kduveli, Chennai.	Recent Trends in Slaughterhouse By-Products Utilization for Sustainable Meat Industry Business.	5/2/2021 11:30 am-12:30pm



Dr. Appa Rao V., Dean, College of Food and Dairy Technology, Kduveli, Chennai, delivered a lecture on “Recent Trends in Slaughterhouse By-Products Utilization for Sustainable Meat Industry Business”. He highlighted the importance of utilization of by products from slaughter house so as to run a sustainable slaughter house by generating an additional source of income and protecting the environmental pollution as well preparation of important products.

The one-week training program was a great success which provided in-depth knowledge to the participants all across the country which was well appreciated by all the participants. The Valedictory speech was given by Col. (Dr.) Prof. A. M. Paturkar, Hon’ble Vice Chancellor, MAFSU, Nagpur who appreciated the efforts taken by the organizers.

## Implementation of Memorandum of Understandings

 Washington State University United States	 Maharashtra Animal and Fishery Sciences University India
<b>Memorandum of Understanding (MoU)</b> between Maharashtra Animal and Fishery Sciences University, Nagpur, India and Washington State University United States	
WHEREAS, Maharashtra Animal and Fisheries Sciences University (MAFSU) and the Washington State University (WSU), Pullman, WA, United States, acknowledge their strong mutual friendship and existing collaboration; and	
WHEREAS, MAFSU and WSU (each a "Party" and together with the "Parties") desire to enrich their respective educational and scientific programs and to strengthen and expand the mutual contacts between both Parties;	
NOW, therefore, to promote cooperation and exchange in education and scientific training, the Parties hereby agree to the following:	
<b>ARTICLE I PARTIES AND PURPOSE</b>	
Maharashtra Animal and Fisheries Sciences University, Nagpur, India (MAFSU), and Washington State University (WSU) conduct programs and activities of education and training, technology and information transfer, scientific programs and economic development. MAFSU and WSU have capabilities and expertise in conducting programs and activities of interest and potential benefit to the other.	
This is to include the following types of collaboration:	
A. Professional training programs; B. Faculty, graduate student, and/or postgraduate scholar exchanges; C. Joint educational and scientific programs; D. Exchange of publications, and information, and/or E. Developing and conducting joint seminars and other academic events.	
<b>ARTICLE IX CONTACT PERSONS:</b> Maharashtra Animal and Fishery Sciences University Dr. Ravindra Zende Professor & Head Principal Investigator-NAHEP-CAAST Department of Veterinary Public Health, Mumbai Veterinary College, Parel, Mumbai 400 012 Maharashtra, India Phone: 022-24131180 / 24137030 Email: <a href="mailto:navindrazende@gmail.com">navindrazende@gmail.com</a> <a href="mailto:navindrazende@mvsc.ac.in">navindrazende@mvsc.ac.in</a> Website: <a href="http://nahepmvcmafsu.edu.in">nahepmvcmafsu.edu.in</a> Date: 21/01/2021	Washington State University Dr. Anil Chaudhry Vice President for International Programs PO Box 646121, Bryan Hall 301 Pullman, WA 99164-5121 Phone: 509-335-2541 Fax: 509-335-2902 E-mail: <a href="mailto:a.choaudhry@wsu.edu">a.choaudhry@wsu.edu</a> Website: <a href="http://ip.wsu.edu/">http://ip.wsu.edu/</a>
<b>ARTICLE X SIGNATURES</b> Maharashtra Animal and Fishery Sciences University Approved by: Dr. Nitin V. Kurkure Director of Research MAFSU, Futala Lake Road, Semenary Hills, Nagpur-440006, Maharashtra, India Phone: 0712 - 2511282, 2511283 Fax: 0712 - 2511282 E-mail: <a href="mailto:drnitesu@gmail.com">drnitesu@gmail.com</a> Website: <a href="http://www.mafsu.in">www.mafsu.in</a> Date: 27/01/2021	Washington State University Approved by: Date: _____
<b>ARTICLE XI SIGNATURES</b> Maharashtra Animal and Fishery Sciences University Approved by: Col. (Dr.) Prof. Ashish Paturkar Vice-Chancellor, MAFSU, Nagpur Date: _____	Washington State University Approved by: _____ Date: _____

## International MoU Signed

Memorandum of Understandings between Washington State University, USA and Maharashtra Animal and Fishery Sciences University was successfully signed on 1<sup>st</sup> February 2021. The MoU will be milestone in developing the collaborative research work between both the Universities. With the execution of MoU, the students and faculties from MAFSU will be visiting to the Washington State University, USA to get trained and upgrade scientific knowledge which will benefit the overall development of the University.

### Upcoming Events March-May 2021

Hygienic Egg  
Production






Introduction to  
Bio-informatics  
Microbial Omics



Chemical  
Residue Analysis



University Authorities	
Name and Designation	
	<p><b>Col. (Dr.) Prof. A. M. Paturkar</b></p> <p>Vice-Chancellor MAFSU, Nagpur</p>
	<p><b>Dr. A. P. Somkuwar</b></p> <p>Director of Instructions and Dean, (Veterinary Science) MAFSU, Nagpur</p>
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	<p><b>Dr. P. G. Wasnik</b></p> <p>Dean, Faculty of Dairy Technology MAFSU, Nagpur</p>
	<p><b>Mr. Chandrabhan Parate</b></p> <p>Registrar MAFSU, Nagpur</p>
	<p><b>Shri. D. B. Raut</b></p> <p>Comptroller MAFSU, Nagpur</p>

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Book Post



To,

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If undelivered please return to:  
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