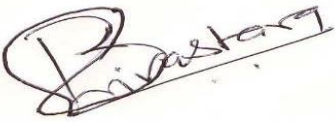





Department of Food Engineering & Technology
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Report on

1.	Name of the Extension Activity	:	EMERGING FOOD PROCESSING TECHNOLOGIES: PROSPECTS AND CHALLENGES FOR FOOD AND NUTRITION SECURITY
2.	Duration, and Date	:	One week 4th – 8th January 2021
3.	In collaboration with (<i>if any, mention the name of the organization or individual or others</i>)	:	ATAL-AICTE New Delhi
4.	Number of participating students [<i>Please enclose the certified list of students</i>]	:	Successfully Qualified: 161 Annexure-I
5.	Number of resource persons (<i>if any</i>)	:	14
6.	Names, affiliation, and contact of resource persons	:	Annexure-II
7.	Summary of the event	:	Annexure-III
8.	Photographs with captions, and dates	:	Annexure-IV

Signatures of Conveners/ Chair/ Coordinator/ In-charge	Signature and Seal of Head of Department/ Centre/ Cell
 Name: Dr. Brijesh Srivastava Designation: Professor	 Name: Dr N sit Designation: Professor





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Annexure-I

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Annexure-II

List of Resource Persons

ATAL 5-Days AICTE sponsored workshop was conducted from 4th to 8th January 2021 in which around 200 participants from different parts of the country participated. Total 161 participants successfully qualified the ATAL-FDP

The speakers for the 5-day workshop on “EMERGING FOOD PROCESSING TECHNOLOGIES: PROSPECTS AND CHALLENGES FOR FOOD AND NUTRITION SECURITY” were:

Dr. KSMS Raghavarao, Professor, IIT Tirupati



Education:

- B.Tech Chemical Engineering, Andhra University (1981)
- Ph.D. from ICT, Mumbai (formerly UDCT) (1987)
- Post-Doctoral, NIST-Colorado

Experience & Achievements:

- 25 years of experience with right combination of Applied and Basic research.
- Recipient of prestigious NASI-Reliance and VASVIK awards for applied research.
- Received 2 out of 4 prestigious National Fellowships of Academies (FNAE & FASc, Bangalore) besides several others (FNAAS, FAFST, FAPASc, FIE).
- 160 publications (with ‘h’ index of 51) and citations over 6500, about 28 International patents and 55 Indian patents.

Dr. Nandan Sit, Professor & Head, FET, Tezpur University



Education:

- M.Tech from G. B. University of Agriculture and Technology
- Ph.D. from Tezpur University

Experience & Achievements:

- 16 years of professional experience in teaching and research in food technology.
- Published more than 30 renowned research papers including in peer reviewed international journals, many conference proceedings; and many book chapters.
- Editor in the book entitled “Innovations in Food Processing Technology”.



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Dr. H.N Mishra, Professor, IIT Kharagpur



Experience & Achievements:

- 35 years of professional experience in teaching and research in food technology.
- Nodal Officer of the Agri Business Incubation Centre (ABIC), IIT Kharagpur and Professor-in-Charge of the Agri Business Incubation Centre (ABIC), IIT Kharagpur.
- Published 583 research papers including 209 in peer reviewed international journals & 306 in conference proceedings; 15 popular articles, 34 book chapters.
- Written 4 books, 4 e-books, 7 lecture compendium & laboratory manuals, 4 technology manuals, and has 14 Indian patents to his credit.

Dr. N.K Rastogi, Chief Scientist & Head, CSIR-CFTRI, Mysore



Education:

- B.Sc. Physics, Chemistry, Mathematics.
- B. Tech. Chemical Technology and Food Technology
- M.B.A. Marketing & Personnel management
- M.Tech. Maintenance & System management
- Ph.D. in Food Engineering

Experience & Achievements:

- Reviewer of R&D papers for more than 15 Journals
- Total citations:7000+, h-index:49 (As per Scopus)
- Editor: Journal of Food Science & Technology (Springer); Journal of Food Process Engineering (John Wiley)
- Co-Editor: Innovative Food Science & Emerging Technology (Elsevier)
- Executive Editor: Intl Journal of Membrane Sci & Technol (Cosmos Scholars)
- Published 170 research paper in National and International

Dr. Vimal Katiyar, Professor, IIT Guwahati



Education:

- Ph.D. in Chemical Engineering from IIT Bombay.

Experience & Achievements:

- Honorary Senior Fellow to Kyoto Institute of Technology, Kyoto, Japan, Visiting Professor at GIFU University, Japan.
- Chair Professor Numaligarh Refinery Limited & Hindustan Gums Co. Limited.
- Co-inventor of 22 granted/filed patents.
- Published more than 100 peer reviewed research articles in highly reputed journals and more than 250 conference papers and 40 book chapters.



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Dr. S.C Deka, Professor, Tezpur University



Education:

- B.Sc from Assam Agriculture University
- M.Sc From Assam Agriculture University
- Ph.D from CCS HAU, Hisar

Experience & Achievements:

- 31 years in Teaching and Research
- Fellow of royal society of Chemistry (FRSC)
- Fellow of royal society of Biology (FRSC)
- President, AFSTI, Tezpur Chapter, Assam.
- Published more than 80 peer reviewed research articles in reputed journals and more than 20 Books and book chapters.

Dr. P. S Rao, Professor, IIT Kharagpur



Education:

- B.Tech (Agril Engg) degree from erstwhile AP Agril University, Hyderabad (Present ANGRAU, Guntur)
- M. Tech & Ph D (Post Harvest Engineering) from IIT Kharagpur.

Experience & Achievements:

- 25 years of teaching and applied research experience in Food Process Engineering and Technologies.
- Published more than 88 international and 9 national research publications in referred journals, 9 book chapters, and one edited book volume
- One granted patent and 2 filed patents to his credit
- Received Distinguished Scientist Award of 'Andhra Pradesh Akademi of Sciences' in 2019.

Dr. Brijesh Srivastava, Professor, Tezpur University



Education:

- B.Tech from Allahabad University, Allahabad
- M. Tech from GBPUA&T, Pantnagar
- Ph.D from IIT Kharagpur

Experience & Achievements:

- 20 years in teaching and research with 02 years of experience in industry.
- Published more than 20 peer reviewed National and International publications including 02 book chapters
- Invited for more than 10 talks in National and International events and presented more than 20 Papers in National and International events.
- 05 sponsored projects completed and currently 02 ongoing project



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Dr. Keshavan Niranjana, Professor, University of Reading, UK



- Recipient of the Lifetime Achievement Award (2016) and Distinguished Service Award (2019) from the International Association of Engineering and Food.
- Fellow of the International Academy of Food Science and Technology
- Co-chair of the Education Committee of the International Union of Food Science and Technology.
- Editor of the Journal of Food Engineering from 2007-2019, and is currently a Subject Editor of the Food and Bio-products Processing Journal (Transactions of the Institution of Chemical Engineers Part C)
- Publication track record with over 150 peer reviewed research papers

Dr. M. K Hazarika, Professor, Tezpur University



Education:

- B.Tech from JNKVV
- M. Tech from IIT Kharagpur
- Ph.D from IIT Kharagpur

Experience & Achievements:

- 25 years in teaching and research.
- Head of the Centre for Innovation, Incubation and Entrepreneurship, Tezpur University
- Central Nodal Officer of the University for the Implementation of vocational courses in the university.
- His research involves Engineering of foods, processes and processing systems, Food product innovation and quality by design, Competency based education and skilling, Entrepreneurship in food sector, Artificial Intelligence/Machine Learning for agro-food systems and Flavour network theory.

Dr. Colm O'Donell, Professor, University of Dublin, Ireland



Experience & Achievements:

- Head of the School of Biosystems & Food Engineering at University College Dublin.
- Leads the Food Quality and Processing Pillar in UCD's Institute of Food and Health.
- His research group works on a range of Process Analytical Technology and Bioprocessing Projects funded by external awards.
- Designated as a highly cited researcher by Thomson Reuters.
- Editor of International Journal of Food Properties and Associate Editor of Transactions of the American society of Agricultural and Biological Engineers.



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- Editorial board member of Food Engineering Reviews (Springer), Foods (MDPI) and the Encyclopedia of Agricultural, Food & Biological Engineering (Taylor & Francis).

Dr. Tatiana Koutchma, Research Scientist, University of Guelph, Canada



Experience & Achievements:

- Leads research in novel processing and food safety engineering and serves as a Graduate Faculty at University of Guelph.
- Initiates, directs and performs integrated fundamental and applied research and collaborates with government, industry and academia partners.
- Associate editor of Food Engineering of the Critical Reviews in Food Science and Safety, Journal of Food Process Engineering, Food Science and Technology International, member of editorial board of Food and Bioprocess Technology and Beverages.
- Member of IFT election and nomination committee.
- Serve on the Board of Directors of Ontario Food Protection Association (OFPA), National Advisory Committee of Food Processing Council HR of Canada, Global Harmonization Initiative as Canadian Ambassador and a leader of Emerging Technologies Group.
- Co-founder and chair of UV for Food Working Group of international UV Association (IUVA).
- Authored and co-authored 6 books, 14 book chapters, and more than 75 publications in peer reviewed and trade journals.

Dr. C. L Mahanta, Professor, Tezpur University



Education:

- M.Sc from GBPUA&T, Pantnagar
- Ph.D from CFTRI, Mysore

Experience & Achievements:

- 32 years in teaching and research.
- Research on projects funded by DST, DBT, UGC, MoFPI, DRDO, ASTEC and Coconut Development Board.
- Published more than 80 peer reviewed National and International publications including book chapters
- Area of interest: Food processing, Food Quality, Functional Foods, Product Development, Food Nanotechnology.

Mr. Varun Uphadhayay, Chemical Engineer

Experience & Achievements:

- Work with top pharma giants in India, Japan South East Asia.
- Plant Head at Sun Pharmaceuticals



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- 13 years teaching in Art of living programs in Govt. institutions under MHRD like IIT's, IIM's, NIT's
- Working with AICTE, UGC and world Bank projects for Jammu and Kashmir for youth empowerment and skills programs.

Signature



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Annexure-III

Session wise time schedule for FDP on “Emerging Food Processing Technologies: Prospects and Challenges for Food and Nutrition Security” from 04 – 08th January 2021

Time	Programme	Topic	Speaker
Day-01 [4th Jan 2021]			
09:30 AM – 09:40 AM	Registration	Online Joining	-
09:45 AM – 10:15 AM		Inaugural Session	Distinguish Guest
10:45 AM – 12:15 Noon	Lecture – 01	Current and future of food processing technologies in view of Industry 4.0	Dr. KSMS Raghavarao
12:30 Noon – 02:00 PM	Lecture – 02	Application of ultrasound technology for food processing in combination with other techniques.	Dr. Nandan Sit
03:00 PM – 04:30 PM	Lecture – 03	Innovative extrusion process to produce designer foods for nutrition & health	Dr. HN Mishra
Day-02 [5th Jan 2021]			
10:00 AM – 11:30 AM	Lecture – 04	Pulsed electrical fields application in food engineering processing	Dr. NK Rastogi
11:45 AM – 01:15 PM	Lecture – 05	Emerging trends in food packaging & storage	Dr. Vimal Katiyar
03:00 PM – 04:30 PM	Lecture – 06	Nanotechnology for Food Security	Dr. SC Deka
Day-03 [6th Jan 2021]			
10:00 AM – 11:30 AM	Lecture – 07	Recent development in high pressure processing for improved quality food products	Dr. PS Rao
11:45 AM – 01:15 PM	Lecture – 08	Electrical field based emerging technologies for new generation food	Dr. Brijesh Srivastava
03:00 PM – 04:30 PM (09:30 AM UK Time)	Lecture – 09	Current status of Food Engineering in the prospective of emerging technologies.	Dr. Keshavan Niranjan
Day-04 [7th Jan 2021]			
11:45 PM – 01:15 PM	Lecture – 10	Innovations in drying & quality assessment	Dr. MK Hazarika
03:00 PM – 04:30 PM (09:30 AM Irish Time)	Lecture – 11	Process analytical technology tools for enhanced quality and safety in food manufacturing	Dr. Colm O Donnell
08:30 PM – 10:00 PM (10:00 AM EST)	Lecture – 12	Emerging Pulsed and UV light application in Food Processing	Dr. Tatiana Koutchma
Day-05 [8th Jan 2021]			
10:00 AM – 11:30 AM	Lecture – 13	Bioavailability of selected bioactive compounds	Dr. CL Mahanta
11:45 AM – 01:15 PM	Lecture – 14	Introductory session on Life Skills	Mr. Varun Upadhyay
02:30 PM – 03:15 PM	Evaluation	Evaluation of participants through online test	
03:30 PM – 04:30 PM		Valedictory	Distinguish Guest



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Report

AICTE Training and Learning (ATAL) Academy sponsored an online Faculty Development Programme on Emerging Food Processing Technologies: Prospects and Challenges for Food and Nutrition Security which was started on 04th January 2021 and ending today. The program was started with the Saraswati bandana and welcome song by girls of FET department, Tezpur University which was followed by felicitation of the guests Professor Rintu Bennerji, the guest of honor, Professor Vinod Kumar Jain, the chief guest, and Professor Smriti Kumar Sinha, guest. Professor Nandan Sit, HOD of FET department, TU has given the welcome address, followed by the program schedule, which was read out by Professor Brijesh Srivastava, coordinator of this FDP. After that, Professor Rintu Bennerji, head of the Agricultural and Food Engineering Department, IIT Kharagpur highlighted the importance of healthy and nutritious food in this present scenario and the potential of different emerging food processing technologies to fulfill the needs of consumers. Then, Professor Vinod Kumar Jain inspired us to research in such a way that it is beneficial to our society as most of the works fail to benefit the people. Professor SK Sinha also motivated us with his valuable speech.

Various speakers from the country as well as from overseas lived this 5-day program up. On the very first day i.e on 4th Jan 2021, Dr. KSMS Raghavarao gave a talk and focused on present and upcoming food processing technologies from an Industry point of view, which is followed by Dr. Nandan Sit's lecture on ultrasound technology and its application in food processing. Professor also covered the potential of Ultrasound to improve the efficacy of other techniques when combining with ultrasound. On the same day, Dr. HN Mishra highlighted the novel extrusion process for the production of designer foods as per the need of the various consumers to improve health and nutrition.

On the second day, we were enlightened by the talk on emerging non-thermal Pulsed electrical fields technology and its application in food processing by Dr. NK Rastogi. Dr. Vimal Katiyar expanded our knowledge on food packaging and storage and the novel packaging system. Nanotechnology is another interesting area that was covered by Dr. SC Deka and ended the session of the second day.

Dr. PS Rao introduced the third day with his fascinating talk on high-pressure processing and recent development in this field. The second speaker of the day Dr. Brijesh Srivastava elucidated on Electrical field-based emerging technologies. Dr. Keshavan Niranjana gave us a valuable message and changed our perspective of research and teaching and inspired us to research to improve the teaching quality instead of taking them as separate things. His talk was on the current status of Food Engineering from the perspective of emerging technologies.



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Like the previous days, the fourth day also comprises of three lectures. The first talk was from Dr. MK Hazarika. He mainly focused on innovation in drying technology, the need for advanced drying technology, multistage drying, hybrid drying, and covered various advanced drying technologies. Participants were apprised about process analytical technology tools by Dr. Colm O Donnell and how their application can improve the quality and safety in food manufacturing. Another interesting lecture on the fourth day was from Dr. Tatiana Koutchma. It was about the emerging Pulsed and UV light application in Food Processing. Dr. Koutchman enlightened us about the evolvement of UV light since it's discovered in the year 1801. Initially, it was used for the treatment of air and water, now its application is expanded to the food sector after its approval by the US FDA and Health Canada. The talk also covered different sources of UV light, inactivation mechanism, and its application.

The last day we had two lectures. One on the bioavailability of selected bioactive compounds that was delivered by Dr. CL Mahanta. The lecture specifically discussed the factors that influence the bioavailability of flavonoids particularly quercetin, anthocyanin, and isoflavones from the food matrix. The last session was not related to the technical domain area, but it is very important to be a happy and successful life. Therefore, Mr. Varun Upadhyay from the art of living was invited to enlighten us with the life managerial skill. He emphasized the importance of balance between personal and professional life to be a successful person, to develop the ability to live in the present moment, and how to achieve that. What are the requirements of a happy and satisfied life? We all came to know that controlling our breath will help in controlling our emotions as it is directly associated with breathing. He also guided us on how to maintain our enthusiasm and some practical sessions were also included to relax our minds.

Based upon attendance and evaluation test, out of two hundred participants, one sixty-one participants were eligible for certificates.



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Annexure-IV

Event Photographs



(Brijesh Srivastava)
Professor