

Food Science Chronicles

A bi-annual Newsletter
July - December, 2024

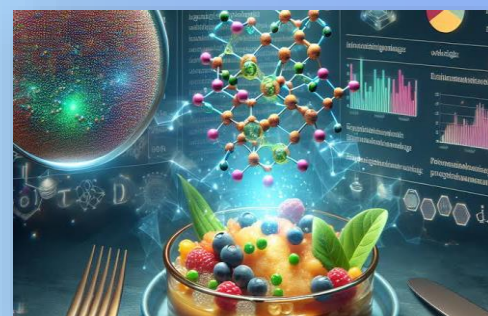


IIEST, SHIBPUR



HOD Speaks

Dear all,



It is my distinct pleasure to introduce the inaugural issue of the School of Community Science and Technology's Newsletter. This publication aims to keep you informed about the latest developments, research, and achievements from our department.

Established in 2004, our school has been committed to fostering growth and development through a holistic approach. Our academic programs include a four-semester course in Food Processing and Nutrition Science, as well as a Ph.D. program initiated in 2011 to explore research in food processing and allied areas. Through short-term courses, workshops, and training sessions, we have sought to bridge the gap between science, technology, and industry, with a focus on sustainable development.

Our graduates have gone on to become highly skilled professionals in food industries, teaching, and research organizations. As we continue to strive for excellence, we remain committed to providing a platform for collaboration between academics and the food industry, including MSMEs and start-ups. Our goal is to contribute to India's vision for Vikshit Bharat 2047. In this inaugural issue, we are delighted to share highlights from our faculty, student projects, industry collaborations, and more. We hope you find this newsletter informative and engaging, and we look forward to continuing to advance the field of food technology together.

Dr. Jayati Bhowal
HOD, SOCSAT

Academics:

1. Two Years M.Sc. Course in Food Processing and Nutrition Science.
2. PhD Program



Sponsored Research Project:

1. CSIR ASPIRE project sanctioned in 2024 under Dr. Jayati Bhowal

Invited talk:

1. Invited Talk delivered by Dr. Dipsikha Kalita at the School of Agriculture, SR University, Warangal, Telengana on topic "Recent Advances towards the application of Non thermal technologies in food processing".

Achievements:

- 1. **Minakshi Chakraborty (PhD Scholar)** secured a 3rd position in the oral presentation at an International Conference on the Scope of Microbiology Beyond Academia, Industry, Entrepreneurship, and more. at Vijaygarh Jyotish Ray College, 2024.
- 2. **Gitasri Paul (MSc Second Year)** secured a 3rd position in poster presentation at the Fourth International conference on Emerging Technologies in Food Processing-IV (ETFP-2024) organized by the Department of Food Engineering and Technology, Ghani Khan Choudhury Institute of Engineering and Technology, Malda, West Bengal, 2024.
- 3. GATE Qualified 2024- 5 , **Supriya Mandal, Vimlesh Maurya, Gitasri Paul, Nikita Kumari, Dipshita Baidya.**
- 4. FSSAI Food Analyst Exam Qualified 2024- 1 (Nestle Lab Food Analyst) **Supriya Mandal.**



Placements (On- Campus): 2024

1. Aakash EduTech Private Limited- 2
Ritik Pratap Singh, Khusbu Yadav.
2. PhysicsWallah EduTech Private Limited- 1
Vimlesh Maurya.
3. Zifo- 1
Anamika Jha.



Placements (Off- Campus): 2024

1. Nestle- 1
Supriya Mandal.

Higher Studies:2024

1. Dipshita Baidya- PhD IIT Guwahati.
2. Gitasri Paul- PhD IEST, Shibpur.



Conferences:

- **Minakshi Chakraborty** (PhD Scholar) participated in an International Conference on Biotechnology and Biological Science Bio spectrum 2024.
- **Minakshi Chakraborty** (PhD Scholar), Roye Santra and Jayati Bhowal participated in an International Conference on the Scope of Microbiology Beyond Academia, Industry, Entrepreneurship, and more. at Vijaygarh Jyotish Ray College, 2024.
- **Ankita Shome** (PhD Scholar) and Jayati Bhowal participated in an International Conference on the Scope of Microbiology Beyond Academia, Industry, Entrepreneurship, and more. at Vijaygarh Jyotish Ray College, 2024.

Publications:

1. Development of probiotic functional food and evaluation of its functional properties. Food Bioscience. Alisha Mondal, Tarun Kumar, Vasudha Sharma, Shantonu Roy.
<https://doi.org/10.1016/j.fbio.2024.104919>

2. Maximization of Micractinium sp. biomass and use of Dual-Purpose reduced graphene-supported vanadium oxide nanoparticles for harvesting and subsequent biodiesel production. Bioresource Technology. Sayan Roy, Supratim Ghosh, Arghya Mukherjee, Shantonu Roy. <https://doi.org/10.1016/j.biortech.2024.131586>

3. Prospects of Health Beneficial Functional Xylooligosaccharides Produced by Enzymatic Hydrolysis of Xylan and Application in Food Industry: A Comprehensive Review. Food Review International Minakshi Chakraborty, Jayati Bhowal. <https://doi.org/10.1080/87559129.2024.2412617>

Seminars and Workshops:

1. Students participated on the One Day Seminar on “Food Adulteration in the field of Millets and Cereals” organized by SOCSAT, IEST, 2024.

2. Minakshi Chakraborty and Ankita Shome (PhD Scholar) participated in a Chromatography Pathshala" a workshop and hands-on training programme on separation techniques by HPLC, GCMS & HS-SPME Department of Life Sciences, Presidency University Main campus, Kolkata” 2024.

Alumni Corner:

- **Ankita Chakraborty** and **Jayati Bhowal** participated in an International Conference on Biotechnology and Biological Science Bio spectrum 2024.
- **Ruma Dutta** and **Jayati Bhowal** participated in an International Conference on Biotechnology and Biological Science Bio spectrum 2024.
- **Samadrita Sengupta** and **Jayati Bhowal**: Evaluation of the efficacy of rice bran and sesame oil for producing nutritionally-superior quality functional tofu. GRASAS Y ACEITES 75 (2) 2024, 0551 ISSN-L:0017-3495 <https://doi.org/10.3989/gya.0442221>

FABRICATING CAREER LADDER OF SUCCESS: opportunities after M.Sc. **Food processing and Nutrition Science**



Sucharita Sengupta, PhD (2022), M.Sc (2013)
Consultant Nutritionist and Certified Diabetes Educator
Hon member of guidelines and research committee & faculty in
Nutrition & Diabetes, India (a core group of Indian Association of
Parenteral and Enteral Nutrition)

The field of food and nutrition science from career perspective is quite demanding in the food industry and healthcare sector. Apart from having wide scope in the R & D sector and academic world, some top job profiles include:

- ❖ **Quality Control Analyst/Manager:** The work of these professionals involves the need to make sure that the finished food products match the quality and efficiency standards.
- ❖ **Food Scientist:** Their area of work involves studying and interpreting the physical, chemical and microbiological properties of food items and their usage in different products.
- ❖ **Food Technologist:** These professionals indulge in planning the manufacture and production of food and drink products. They even provide new ideas and recipes for various food items that need to be resold in the markets.
- ❖ **Nutritionist:** Their area of work involves advising the patients on matters regarding diet, food and nutrition and its effects on health along with lifestyle modification.
- ❖ **Food Production Manager/Supervisor:** The person is responsible for the production process in food manufacturing facilities, ensuring that products meet quality standards, safety regulations, and production targets.
- ❖ **Nutrition Officer:** They carry out different project works and surveys pertaining to public health.
- ❖ **Clinical Dietitian:** They work in hospitals and focus on the prevention, diagnosis, and management of nutritional changes in patients linked to chronic diseases.

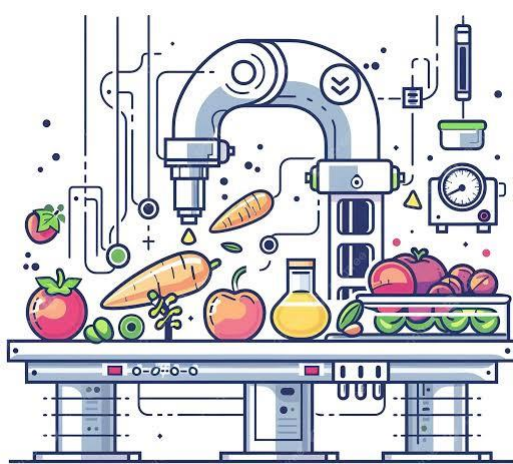
Editorial Team:

Editor in Chief:

Dr. Jayati Bhowal, Assistant Professor and HOD, SOCSAT.

Team members:

1. Dr. Shantonu Roy, Assistant Professor, SOCSAT
2. Dr. Dipsikha Kalita, Assistant Professor, SOCSAT



*"Let food be thy
medicine and medicine
be thy food"*
~Hippocrates

*"Let's treat food with
respect and not waste
it."*
~ Massimo Bottura

