

# AKASAPU KUMUDHINI

PhD (Prime Minister's Research Fellow)  
School of Agro and Rural Technology  
Indian Institute of Technology Guwahati  
+91-9515329612  
k.akasapu@iitg.ac.in  
akumudhini.95@gmail.com



## ABOUT ME

A Ph.D. Research Scholar (Prime Minister's Research Fellow) with passion and interest towards research and teaching, I want to use my knowledge and skills to carry out research in Food Processing, Preservation and Food Product Development to contribute to the growth of rural sector and farmers of our country.

## EDUCATIONAL QUALIFICATIONS

DEGREE	INSTITUTE	CGPA/%	YEAR
<b>Ph.D. (Centre for Rural Technology)</b>	Indian Institute of Technology Guwahati, Guwahati, Assam	9.25	2019-Present
<b>M. Tech (Food Engineering and Technology)</b>	Tezpur University, Assam	9.40	2017- 2019
<b>B. Tech (Food Processing and Engineering)</b>	Karunya University, Coimbatore	8.01	2013- 2017
<b>Intermediate XII</b>	Board of intermediate education, A.P.	92.3%	2013
<b>Class X</b>	Board of Secondary Education, A.P.	91%	2011

## PROFICIENCY IN TAUGHT COURSES

Courses		Labs
<b>UG Core</b>	<b>PG &amp; Electives</b>	
Principles of Food Process Engineering	Transport Phenomena in Food Processing	Fluid mechanics and Heat Transfer
Unit Operations in Food Processing Heat and Mass Transfer Engineering	Engineering Properties of Biological Materials	Unit Operations in Food Process Engineering and Grain Processing Food Engineering and Packaging Lab
Physical Properties of Food Materials Fruit and Vegetable Processing Technology	Food Process Modelling and Simulation	Engineering Properties of Food Materials Lab
Plantation Products and Spices Technology	Recent Trends in Food Product Development and Packaging	Food Analysis Lab
Cereals and Pulses Technology	Extrusion Technology	Food Product Technology Lab
Food Process Equipment Design	Valorization of food byproducts	
Process Economics and Plant Layout Design	Research Methodology	

## TEACHING INTERESTS

Principles of Food Processing and Preservation  
Food Product Technology (Fruit and Vegetable Processing)  
Food Industry By-product Utilization  
Heat Transfer

## PUBLICATIONS

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### International Refereed Journals

1. **Akasapu, K.**, Ojah, N., Gupta, A. K., Choudhury, A. J., & Mishra, P. (2020). An innovative approach for iron fortification of rice using cold plasma. *Food Research International*, 136, 109599.
2. **Akasapu, K.**, Uppaluri, R.V.S. "Efficacy of Score Deviation method as a novel sensory evaluation technique for the identification of optimal mixed vegetable soup formulations ". **(Under Review)** *International Journal of Gastronomy and Food Science*.

### International and National Conferences

3. **Akasapu, K.**, Uppaluri, R.V.S. (2023). "Nutritional Efficacy Based Vegetables Selection for the Development of Ready to Cook Soup Mix Formulations", *Agro and Food Processing Technologies: Proceedings of North-east Research Conclave (NERC) 2022*, Springer Nature, 157-192. [https://doi.org/10.1007/978-981-19-9704-4\\_9](https://doi.org/10.1007/978-981-19-9704-4_9).
4. **Akasapu, K.**, Uppaluri, R.V.S. "Hedonic, score deviation and fuzzy logic sensory analysis techniques for the development of optimal vegetable mix soup formulations: A comparative study and future insights ", 5th International Symposium on Processing of Foods, Vegetables and Fruits, June 22-23, 2023. **(Accepted for Oral presentation)**.

### Conferences Participated

1. Attended 4<sup>th</sup> International Conference on Food and Nutrition, 23-24 Sep 2021, Universal Society of Food and Nutrition (USFN).
2. Attended 2<sup>nd</sup> Rural Dialogue, Entrepreneurship & Innovation in Emerging Economies, 20-21 Jan 2020, School of Agro and Rural Technology, IIT Guwahati.
3. Attended Northeast Green Summit, 1 -3 November 2019, IIT Guwahati.
4. Attended National Symposium on Probiotics and Functional Foods on Health Management in association with the Probiotic Association of India, 4-5 March 2019, Tezpur University.
5. Participated in International Conference on Technological Innovations for Integration of Food and Health (TiiFH 2019), 14-16 February 2019, Tezpur University and **presented a poster entitled "Process Standardization for Development of Iron Fortified Rice using Cold Plasma Processing for Anaemic People"**.
6. Attended International Conference on "Converging Biotechnological innovations for Health, Food and Environmental Welfare, 2-4 December 2015, Karunya University.

## TOOLS PROFICIENCY

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- Oral and Written Communication Tools: Microsoft Word, Excel and PowerPoint, LaTeX, Origin Pro8
- Programming Languages: PYTHON
- Statistical Tools: SPSS, Design-Expert

## AWARDS AND RECOGNITIONS

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- Awardee of the Prime Minister's Research Fellowship under the PMRF scheme.
- Achieved university gold medal for securing 1<sup>st</sup> rank in M.Tech at Tezpur University.
- Qualified Graduate Aptitude Test in Engineering (GATE) in the year 2018.
- Qualified UGC NET for Lectureship in the year 2018.

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- Qualified 2nd Junior Analyst Examination 2018.
  - Successful completion of Internal Auditor Training Course, 22-23 February 2018, Intertek Food services.
  - Awarded one of the best projects (on Food Adulteration) in MINDKRAFT'15, Karunya University.

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### ADMINISTRATIVE SKILLS

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- Member of Nrityangan Dance Club, Tezpur University (2017-2019).
- Active member of Leadership and Management Club, Karunya University (2014-2015).
- Active member of National Service Scheme (NSS) (2013-2014)

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### SOFT SKILLS

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- Communication Skills
- Teamwork
- Critical Thinking
- Time Management

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### INTERESTS AND HOBBIES

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- Dancing
- Badminton
- Swimming
- Reading novels

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### PERSONAL INFORMATION

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Date of Birth: 31-05-1995

Gender: Female

Nationality: Indian

Languages: Telugu, Hindi, English

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### REFERENCE

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**Prof. Ramagopal V.S. Uppaluri**

Department of Chemical Engineering,

IIT Guwahati

Guwahati, Assam

**Email:** ramgopalu@iitg.ac.in

**Ph:** 0361 2582260

**Dr. Poonam Mishra**

Department of Food Engineering and Technology

Tezpur University

Tezpur, Assam

**Email:** poonam@tezu.ernet.in

**Ph:** 03712 275705

### DECLARATION

I hereby declare that the information given above is true to the best of my knowledge.

**Name:** Akasapu Kumudhini

**Date:** 27-04-23

**Signature:** 

**Place:** Guwahati