

DR. ARUNIMA SINGH

Assistant Professor (Contractual)
Department of Food Technology
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Area of Interest

- Utilization of food waste for making value added products.
- Process optimization and new product development.
- Modeling and kinetics of food processes.
- Novel methods for oil extraction and characterization.
- Fermentation Technology

Teaching Experience

S. No.	Organization	Designation	Duration
1.	Harcourt Butler Technical University, Nawabganj, Kanpur (Uttar Pradesh)	Assistant Professor (Contractual)	Oct, 2024 to Present
2.	Harcourt Butler Technical University, Nawabganj, Kanpur (Uttar Pradesh)	Teacher Fellow (TEQIP-III)	Oct, 2017 to Oct, 2020
3.	Department of Food Tech., I.E.T, Bundelkhand University, Jhansi (U.P.)	Lecturer (SFS)	Oct, 2013 to Apr, 2014
4.	Doon PG College of Agriculture, Science and Technology, Dehradun (U.K.)	Lecturer	Aug, 2012 to Sep, 2013
5.	Department of Post- Harvest Process and Food Engineering in GBPUAT, Pant Nagar	Teaching Personnel	Feb, 2012 to May, 2012
6.	Department of Food Technology, BFIT, Dehradun	Lecturer	Aug 2011 to Jan 2012

Educational Qualification

Course	Subject	Board/ University	Year
Ph.D.	Food Technology	HBTU, Kanpur	2023
M.Tech	Food Technology (Food Quality Management)	SHIATS, Allahabad	2011
B.Tech	Biotechnology (Industrial Microbiology)	AAIDU, Allahabad	2009

Additional Qualifications

- Qualified “ASRB (ICAR) NET” (NET (I) - 2016/ 03765) in 2016.

PUBLICATIONS:

Articles:

- Popular article on the topic “A versatile legume crop- Chickpea” in Indian Farmer digest, published by G.B.P.U.A&T, Pant Nagar.

Book Chapters:

- A book chapter on the topic “Sustainable Food Packaging” (Chapter 8) in the book “Future Crops & Processing Technologies for Sustainability & National Security”. (CRC Press, Taylor & Francis Group). Doi: 10.1201/9781003280170-10
- A book chapter on the topic “Fluorescence Spectroscopy for Beer Quality Analysis” in the book Food Quality Analysis- Applications of Analytical Methods Coupled with Artificial Intelligence. Edited by: Ashutosh Shukla and published by Elsevier. (ISBN: 9780323959889).
- A book chapter on the topic “Challenges & Opportunities in Harnessing Food Bioactives”, publishing by Elsevier (Communicated).
- A book chapter on the topic “Immunomodulatory and Anti-microbial dynamics of fruit bioactive compounds” publishing by Springer (Communicated).

Research Papers:

- Research Paper published on the topic “Evaluation of physico-chemical and sensory properties of refined wheat flour biscuits supplemented with chickpea flour” in Int. J. Eng. Sci. Res., 2016, 4(6), 51-64.
- Research Paper published on the topic “Nutraceuticals: A potential alternative for Pharmaceuticals (A review)” in the Journal of Agricultural Engineering and Food Technology (ISSN 2350-0263), 2016, 3(2), 134-140.
- Research Paper published on the topic “Cultivars effect on the physical characteristics of pumpkin (*Cucurbita moschata* Duch.) seeds and kernels”. Journal of Institution of Engineers (India): Series A. 2020; 101, 631-41. <https://doi.org/10.1007/s40030-020-00460-6>
- Research Paper published on the topic “Nutritional, phytochemical, and antimicrobial attributes of seeds and kernels of different pumpkin cultivars”. Food Frontiers, 2021; 1-12. <https://doi.org/10.1002/fft2.117>
- Research paper published on the topic “Phyto-chemical and bioactive compounds of pumpkin seed oil as affected by different extraction methods,” Food Chemistry Advances. 2023; 2, 100211. <https://doi.org/10.1016/j.focha.2023.100211>.
- Research paper published on the topic “RSM and ANN approach for optimization of ultrasonic assisted extraction of pumpkin seed oil and their quality assessment,” Food Chemistry Advances. 2023; 3, 100552. <https://doi.org/10.1016/j.focha.2023.100552>.
- Research paper published on the topic “Pumpkin seeds as nutraceutical & functional food ingredient for future: A review,” Grain & Oil Science and Technology. 2024; 7, 12- 29. <https://doi.org/10.1016/j.gaost.2023.12.002>.

Conferences Attended (National/International): 10

FDPs Attended: 13

Trainings/Workshops Attended: 19