

Personal Profile



Name: Dr. ANKIT KUMAR

Designation and Department: Assistant Professor, Department of Process and Food Engineering, College of Technology, SVPUAT, Meerut, 250110, Uttar Pradesh

Date of Joining: 22/Oct/2024 at CoT, SVPUAT, Meerut

Specialization: Process & Food Engineering, Equipment Design,

Contact: jggankit@gmail.com, Mobile no.: +91-8567007970 and 7618502551

Educational Qualifications

Particulars	Specialization	Name of University	Passing year
B.Tech.	Agricultural Engineering	S.C.R.I.E. & T, C.C.S.U, Meerut	2012
M.Tech.	Processing & Food Engineering	J.N.K.V.V., Jabalpur	2014
NET	Agricultural Structure and Process Engineering	ASRB-ICAR	2015 & 2018
Ph.D	Processing & Food Engineering	PAU, Ludhiana	2019

Experience: 5 years

- Joined as a SRF under the PEER, USAID Project entitled “Off grid, clean energy cooling for affordable storage of perishables for BOP farmers” on contractual basis w.e.f. **05/03/2019 to 07/09/19(6 Months, 2 days)** in Division of Agricultural Engineering, IARI, New Delhi
- Joined as an Assistant Professor on contractual basis with the pay scale of Rs. 15600-39100/- with AGP of Rs. 6000, w.e.f. **17/Oct/2020 to 05/May/2020 (6 months, 18 days)** in department of Food Technology and Nutrition, Lovely Professional University, Phagwara, Punjab.
- Worked as reviewer in GATE (Global Agri-Technology Evaluation), SFSA (Syngenta foundation for sustainable agriculture). 25 Projects edited by me in 20 days (July 2020).
- Joined as an Assistant Professor cum incharge of research and innovation in department of Agriculture, Baba Farid Group of Institution, Punjab, with the pay scale of Rs. 15600-39100/- with AGP of Rs. 6000, w.e.f. **20/July/2020 to 21/Oct/2024.**

Research & Project Undertaken

- **In Service:** PI under scheme of Unnat Bharat Abhiyan a flagship program of Ministry of Education, GoI, Year 2022-2023. Bathinda Punjab.

Publications:

(a) No. of Patents:

Patent Granted: 01

- Title of the invention: A FOOT LEVER ENABLED CHAFF CUTTER'. Patent Number: 535665. Date of Grant: 29/04/2024. Name of Inventors: 1: Dr. Ankit Kumar 2: Dr. Wineet Chawla 3:Gagandeep singh 4:Gurpreet Sharma 5:Babnish Kumar 6:Dilbag Singh 7:Gurpreet Kamboj 8:Amrik Singh, 9: Sukhmanpreet Singh

Patent Published: 02

- Title of the invention: MULCH SHEET (FILM) PUNCHING TOOL AND A METHOD FOR PUNCHING A MULCH SHEET, Application No.202311032429A, and Publication Date: 09/06/2023 (As a First inventor).
- Title of the invention: YELLOW VEIN MOSAIC VIRUS RESISTANT COLORFUL HIGH YIELDING MUTANT IN OKRA, Application No.202311032743 A, Publication Date: 14/07/2023.

(b)Original research papers published in referred journals:

1. S Chopra, Norbert Müller, Devinder Dhingra, Indra Mani, Tushar Kaushik, **Ankit Kumar**, Randolph Beaudry (2022) A mathematical description of evaporative cooling potential for perishables storage in India. *Postharvest Biology and Tech*, 183, 727-11139. (NAAS rating: 12.75).

2. S Chopra, Norbert Müller, Devinder Dhingra, Pranav Pillai, Tushar Kaushik, **Ankit Kumar**, Randolph Beaudry (2023). Design and performance of solar-refrigerated, evaporatively-cooled structure for off-grid storage of perishables. *Postharvest Biology and Tech*, 197, 727-11139. (**NAAS rating: 12.75**).
3. **Ankit Kumar** and V K Tiwari (2016) Effect of ageing, moisture contents and storage structures on color parameters of brown rice during ambient condition. *The Ecoscan*, 10 (3&4): 433-36 (**NAAS rating: 4.65**).
4. **Ankit Kumar** and V K Tiwari (2017) Studies on colour parameters of brown rice at various moisture contents using different storage structures. *Research in Environment and Life Sciences*, 10 (4): 315-18 (**NAAS rating: 3.74**).
5. **Ankit Kumar**, Shraddha Bhople, Nitin Kumar and V K Tiwari (2017) Effect of ageing, moisture contents and storage structures on nutritional and cooking characteristics of brown rice during storage. *Chemical Science Review and Letters*, 6 (22):793-800 (**NAAS rating: 5.21**).
6. **Ankit Kumar** and V K Tiwari (2017) Effect of different storage condition on physiological weight loss and cooking quality of brown rice. *International Journal of Processing and Post-Harvest Technology*, 8 (1): 118-23 (**NAAS rating: 3.84**).
7. Shraddha Bhople, **Ankit Kumar** and Prabha Haldkar (2017) Effect of moisture content on angle of repose for different cereals and pulses. *International Journal of Chemical Studies*, 5 (5):2283-86. (**NAAS rating: 5.31**).
8. Nitin kumar, Kirandeep, **Ankit Kumar** & A N. Malathi (2017) Comparative analysis of traditional and modern methods of *aonla* pricking: a techno-economic and ergonomic assessment. *International Journal of Agricultural Science and Research*, 7 (2):81-86 (**NAAS rating: 4.13**).

9. Rohit Narang, S R Sharma, T C Mittal and **Ankit Kumar*** (2017) Effect of modified atmosphere packaging on storage life and quality of cherry tomato under ambient conditions. *International Journal of Processing and Post-Harvest Technology*, **8 (1): 29-36 (NAAS rating: 3.84).**
10. Chummanlal sahu, D.K. Nilatkar and **Ankit Kumar*** (2019) Performance evaluation of different Jawahar lister tiller primary tillage tools under actual field conditions. *Restaurant business*, **118 (09): 667-680. (UGC Approved).**
11. **Ankit Kumar**, S K Gupta and M S Alam (2019) Impact of thermal and chemical treatments on ascorbic acid of fresh cut mangoes. *Think India Journal* **22 (37): 238-246. (UGC Approved).**
12. Anuj Yadav, Shusheel Kumar and **Ankit Kumar*** (2020) Effect of pretreatments, drying thicknesses and methods on drying characteristics of onion slices. *Journal of Plant Archives*. 20 (2) **(NAAS rating: 4.41).**
13. Poonam Rani, Anita Singh and **Ankit Kumar** (2021) The Effect on Okra Seed Germination using Filtrates of Isolated Pathogenic Fungi from Black Point Infected Wheat Grains. *Biological Forum – An International Journal*, 13(3a): 436-440. **(NAAS rating: 5.11).**
14. Gaikwad V , Jaspreet, ,Rasane, Sawinder, **Ankit Kumar**, Ashwani Kumar, Nitya Sharma, Chandra Mohan Mehta, Avinash Singh Patel (2023). Nutritional significance of finger millet and opportunities for its processing into value added products. *J Foods and Raw Materials*, 1(12).
15. Renu Kamboj, Arti B, Minaxi, Ankit Kumar, Nimat Ali, MK Parvez, Prince Chawla, Kandi Sridhar (2024). Green synthesis of rice straw-derived silica nanoparticles by hydrothermal process for antimicrobial properties and effective degradation of dyes. *Journal of Process Safety and Environmental Protection*, 185, 1049-1060. (Naas Rating: 13.80)

(c) Lab manual

1. Lab manual and IP for new course (Food Processing, FOT-111), in which 20 practicals are exceeded.

(d) Chapter contributed towards book (13 Book chapters)

1. **Ankit Kumar** and Sonia Morya (2019) Packaging of fruits and vegetables. *Advances in Horticultural Crop Management and Value Addition*, chapter-31, pg. 363-74.
2. Sonia Morya and **Ankit Kumar** (2019) Food Additives and Preservatives. *Advances in Horticultural Crop Management and Value Addition*, chapter-22, pg. 263-73.
3. Poonam Rani, **Ankit Kumar** and Nivedita Gupta (2022) Study on Karnal bunt in wheat crop. *Advances in Agricultural and Horticultural Science*. 541-553.

(e) Abstract published in proceedings of conference/symposia/seminar

1. **Ankit Kumar**, V K Tiwari and P Haldkar (2014) Studies on effect of ageing of brown rice on water uptake ratio. *National seminar on Enhancing Agricultural Profitability through Value Addition*, J.N.K.V.V., Jabalpur, **101-102**.
2. **Ankit Kumar** and V K (2014) Tiwari Best recovery of brown rice by moisture management in shelling. *National seminar on Enhancing Agricultural Profitability through Value Addition*, J.N.K.V.V., Jabalpur, **115**.
3. P Haldkar, V K Tiwari and **A Kumar** (2014) Millets-Rich source of nutrients. *National seminar on Enhancing Agricultural Profitability through Value Addition*, J.N.K.V.V., Jabalpur, **123**.
4. P Haldkar, V K Tiwari and **A Kumar** (2014) Expansion characteristics of extrudate of barnyard millet-green gram blend. *National seminar on Enhancing Agricultural Profitability through Value Addition*, J.N.K.V.V., Jabalpur, **97-98**.
5. **Ankit Kumar**, S K Gupta and M S Alam (2017) Effect of thermal and chemical treatments on textural property of minimally processed

mango. *National symposium on Innovation in Horticulture: Production to Consumption*, G.B. Pant Nagar, Agril. Uni. UK, **203**.

6. **Ankit Kumar**, S K Gupta and M S Alam (2017) Colour analysis of minimally processed mango under different treatments. *International conference on Advances in Agricultural and Biodiversity Conservation for Sustainable Development*, CCSU, Meerut, U.P, **295**.
7. **Ankit Kumar**, S K Gupta and M S Alam (2019) Effect of different treatments on TSS/acid ratio for minimally processed mangoes (cv. Dashehari and Langra). *53rd Annual Convention of Indian Society of Agricultural Engineers (ISAE)*, **57-58**.
8. **Ankit Kumar**, S K Gupta and M S Alam (2019) Changes in sugar content of minimally processed mango (cv. Dashehari and Langra) influenced by thermal and chemical treatment. *National symposium on Smart and Sustainable Agriculture*, LPU, Phagwara, **121**.
9. Renu Kamboj, Prince Chawla and Ankit kumar (2021) Management of rice straw for its commercial applications. *Recent Advances in Agriculture, Engineering, and Biotechnology for Food Security*. BHU, Pg. 71.

Medal Award:

- Two times qualified ICAR- **National Eligibility Test**, 2015 and 2018, Conducted by Agricultural Scientists Recruitment Board, New Delhi
- Secured All India 98th rank in AIEEA-JRF-PG-2012, Conducted by ICAR, New Delhi.
- Secured All India 18th rank in AICE-SRF-PGS-2016, Conducted by ICAR, New Delhi.
- Senior Research **Fellowship** (SRF)-2015, awarded by Council of Scientific & Industrial Research (**CSIR**), Human Resource Development Group Pusa, New Delhi.

- Awarded 1st prize for best poster in International conference on “Advances in Agricultural and Biodiversity Conservation for Sustainable Development (ABCD-2017)” during 27-28 October, 2017 at CCS University, Meerut.
- Young Scientist Award by International Institute of Technical Teachers (Registered under Ministry of Micro, Small and Medium Enterprises), Dehradun, Uttarakhand, May-2021.
- Secured 1st position in Best Agriculture Teacher competition organized by Krishi Career Academy, Maharashtra.
- Awarded 3rd prize for best poster in National symposium on “Innovation in Horticulture: Production to Consumption” during 14-15 September 2017 at G B Pant University of Agriculture and Technology Pantnagar, Uttarakhand.
- Awarded with Consolation prize for poster presentation in National Seminar, JNKVV, Jabalpur, 2014.
- Awarded with Cast response certificate in 12th class about Education.
- Awarded with Gold Medal in B.Tech. 3rd year by SCRIE&T, Meerut.
- Awarded by Deputy Commissioner, Bathinda for mentoring the students in startup challenge in UDYAM: Soar to Shine Organized by DBEE, Bathinda.
- Got the 2nd Position in startup Ideathon, Straw to Gold on 10th May 2024, Organized by Central University of Punjab, Bathinda.

Seminar/workshop/symposium/training etc. :

- One month summer training of *Operation and maintenance of Tractor and Agricultural machinery; Study of various sub-assemblies of Tractor; Study operation, maintenance and repair of 5 H.P. Single*

Cylinder Diesel Engine; Introduction to Tractor testing activities Study of Indian Standard and Testing Procedure **at Central Farm Machinery Training & Testing Institute, Budni (M.P.)** in July-2011.

- Three weeks summer training from 17-June-2013 at SSP PVT LIMITED Faridabad to get the exposure of “**Evaporation and Drying equipment**” used in the food industry.
- Office automation and diploma in internet programme at Nav bhara Computer Education, Meerut conducted from January 2010 to June 2010.
- National seminar on Enhancing Agricultural Profitability through Value Addition, during 25-26, July 2014 at J.N.K.V.V., Jabalpur (Poster presentation).
- Participated in the National Workshop on Basic and Applied Techniques in Chemistry, held on 5th to 7th Nov-2012, Sponsored by: UGC (CRO) Bhopal, M.P.
- National symposium on Innovation in Horticulture: Production to Consumption, during 14-15, Sept 2017 at GB Pant University of Agriculture and Technology Pantnagar, Uttarakhand. (Poster presentation).
- International conference on Advances in Agricultural and Biodiversity Conservation for Sustainable Development during 27-28 Oct, 2017 at CCSU, Meerut. (Poster presentation).
- Participated in the Hands-on Practical Training cum Workshop on “Application of CAD/CAM for Design and Development of Machinery and Equipment” during 5-6, Feb-2018 at Department of FM&PE, PAU, Ludhiana.
- 53rd Annual Convention of Indian Society of Agricultural Engineers (ISAE) and International symposium on Engineering Technologies for

Precision and Climate smart Agriculture during 28-30 January, 2019 at Institute of Agriculture Sciences, BHU, UP, India.

- National symposium on Smart and Sustainable Agriculture, 23rd Nov, 2019 at LPU, Jalandhar, PB
- Participated as Volunteer in the XIII All India Inter Agricultural University Youth Festival 2012-2013 held at JNKVV, Jabalpur, Sponsored by ICAR, New Delhi.
- Participated in combined annual training camp of national cadet corps (NCC)-2007.
- Conducted “Gramin Prtibha Khoj 2016” at block level. And other activities related to educations and sports in my native.
- 7 days FDP on Integrative approach towards current practices in food product development organized by Manav Rachna International Institute of Research and Studies.

Distinction in teaching, research and extension education/expert panel membership, principle investigator of research schemes,

(a). Course taught:

Theory	Advances in Food Engineering Food Process Engineering Principles of Food Science Storage Engineering Soil and water conservation engineering
Practical	Advances in Food Engineering Laboratory Food Processing

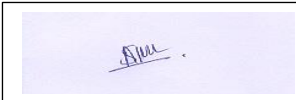
Food Quality Management Laboratory
Farm Machinery and Power
Soil and water conservation engineering
Fundamental of soil science

Other Activities:

- Invited to deliver an expert talk for an AICTE-ISTE sponsored refresher/induction program held at Bhai Gurudas Institute of Engineering and Technology, Sangrur, Punjab, from February 10 to February 16, 2022.
- Honored to serve as an expert for a training program on the valorization of value-added products from agricultural waste. This event took place at the College of Agricultural Engineering, CCSU, Hisar, from January 1 to January 8, 2023.
- Life member of “Indian Society of Agricultural Engineers”, New Delhi
- Annual member of “International Journal of Processing Post-Harvest Technology, Muzaffarnagar, India.
- Annual member of “Society for Environment Protection (SEP)” Lucknow, India.

Declaration:

I, hereby declare that the information furnished here are true



Date:04/11/2024

Dr. Ankit Kumar