

## DR. KHAN CHAND

### PUBLICATIONS

#### NATIONAL/ INTERNATIONAL JOURNALS

##### ❖ National Journals

1. **Khan Chand**, Anupama Singh, Manoj Kulshrestha (2012). Jaggery quality affected by Hilly climatic conditions. *Indian Journal of Traditional Knowledge*. 11 (1): 172-176. UGC care, Scopus (Impact factor:0.492) NAAS Rating: 7.06
2. A. Singh, S. Santosh, M. Kulshrestha, **Khan Chand**, U C Lohani and N C Shahi. (2013). Quality Characteristics of Ohmic Heated Aonla Pulp. *Indian Journal of Traditional Knowledge*, 12(4 October Issue): 670-676. UGC care, Scopus (Impact factor: 0.492) NAAS Rating: 7.06
3. **Khan Chand**, Anupama Singh and N.C.Shahi (2012). Engineering Properties of Extruded Jaggery Based Snack From Soya Wheat Flour. *Journal of Environment and Ecology*.30 (2): 299-302. NAAS Rating : 4.09
4. **Khan Chand**, Anupama Singh and N.C.Shahi (2011). Impact of mechanical damage on viability of soyabean. *Journal of Environment and Ecology*. 29(3A):1423-25. NAAS Rating : 4.09
5. **Khan Chand**, S. S. Mehta and R. K. Pandey (2011). Determination of Physical Characteristics of Jatropha. *Journal of Environment and Ecology*. 29(1A):333-336. NAAS Rating : 4.09/10
6. Sachin Kumar, **Khan Chand** and Iftikhar Alam (2012). Minimize the cooking time of horse gram. *Journal of Environment and Ecology*, 30(3):486-490. NAAS Rating : 4.09/10
7. M. Mahawar, A. Singh, B.K Kumbhar, M. Sahgal and **Khan Chand** (2012). Solid state fermentation of Apple pomace as affected by combinations of enzymatic treatment and yeast strains. *Journal of Progressive Agriculture an International Journal*, Vol.3(1):59-62, NAAS Rating:2.89
8. Richa R, Pandey J P, **Khan Chand**, Shahi N C and Anupama Singh (2014). Optimization of storage parameters to enhance the shelf life of malta using response surface method. *Indian Journal of Engineering*, 8(18, February):11-19. Scopus and Google scholar, Impact factor: 1.27

9. Bhandari V, Singh A, Gupta K and **Khan Chand (2014)**. Enriching Nutritional Value of Underexploited Crops Using Solid-State Fermentation Technology: An Overview. *Journal of Environment and Ecology*, 32 (3A):1131-1136. NAAS Rating: 4.09.
10. Anand Kumar, **Khan Chand**, N.C. Shahi and Anil Kumar (2017). Effect of coating materials on keeping quality of jaggery cubes during storage. *Indian Journal of Agriculture Sciences*, 87(10 Oct):1391-1397. Scopus/WoS NAAS: 6.37 <https://doi.org/10.56093/ijas.v87i10.75031>
11. Arshi Siddiqui, **Khan Chand** and N.C.Shahi (2021). Effect of process parameters on extraction of pectin from sweet lime peels. *Journal of The Institution of Engineers (India): Series A*, 102(2 June):469-478. Scopus/UGC care, NAAS Rating: 5.0 ISSN: 2250-2157 DOI: 10.1007/s40030-021-00514-3
12. Shikhangi Singh, P.K. Omre, **Khan Chand**, Anil Kumar and Pratima Awasthi (2021). Process optimization of ultrasonic assisted extraction of betalains from red beet, *Beta vulgaris* L. waste stalks. *Indian Journal of Experimental Biology*, 59( Dec,12): 858-866. Scopus/WoS/UGC, Impact Factor: 0.944 and NAAS:6.78 ISSN: 0019-5189
13. Anand Kumar, **Khan Chand**, Navin C Shahi, anil Kumar and A K Verma (2017) Optimization of coating material on jaggery for augmentation of storage quality. *Indian Journal of Agricultural Sciences*, 87 (10): 1391-1397. SCOPUS/WoS/UGC; Impact factor: 0.253; NAAS: 7.2 <https://doi.org/10.56093/ijas.v87i10.75031>; Online ISSN: 2394-3319
14. U C Lohani, J P Pandey, N C Shahi, Anupama Singh and **Khan Chand. (2012)**. Microwave drying of orange (*Citrus sinensis*) slices. Presented at XXI ICFOST on Innovations in Food Science and Technology to Fuel the Growth of the Indian Food Industry, Pune, 20-21 January.
15. U C Lohani, **Khan Chand**, N C Shahi and Anupama Singh, (2019). Pulsed light application in fruits and vegetables processing. In: Technological Interventions in the Processing of Fruits and Vegetables. CRC Press, pp: 101-112, ISBN 978-1-771-88708-3

#### ❖ International Journals

1. **Khan Chand**, N C Shahi, U C Lohani and S K Garg (2011). Effect of storage conditions on keeping qualities of jaggery. *Sugar Tech.* 13 (1): 81-85. DOI: 10.1007/s12355-010-0059-8 IF: 1.872, Scopus/UGC; NAAS Rating: 6.81; E-ISSN:0974-0740

2. **Khan Chand**, Anupama Singh, A K Verma and U C Lohani (2011). Quality evaluation of jaggery chocolate under various storage conditions. *Sugar Tech.* 13(2):150-155. DOI: 10.1007/s12355-011-0089-x NAAS Rating: 6.81; E-ISSN:0974-0740
3. A. Singh, I. Rana, N. C. Sahi, U.C. Lohani and **Khan Chand** (2012). Optimization of Process Variables for Preparation of Apple Pomace - Black Soyflour Based Biscuits. *International Journal of Food, Agriculture and Veterinary Sciences.* 2(1): 46-49. URL: <http://www.cibtech.org/jfav.htm>; ISSN: 2277-209X (Online)
4. Khan Chand and R.K. Pandey. (2012). Optimization of Foam Mat Drying Process Variables for Malta Powder. *International Journal of Food, Agriculture and Veterinary Sciences*, 2(2):67-73.
5. **Khan Chand**, R.K.Pandey, N.C.Shahi and U.C.Lohani. (2013). Pedal Operated Integrated Potato Peeler and Slicer. *International Journal of Agricultural Mechanization in Asia, Africa and Latin America*, 44(1):65-68. ISSN:00845841 WoS/ SCOPUS; Impact Factor: 0.148 NAAS Rating: 6.3
6. Khamgaonkar S.G. Singh A., **Khan Chand**, Shahi N.C. and Lohani U.C. (2013). Processing technologies of Uttarakhand for lesser known crops: An overview, *International Journal of Academia and Industrial Research*, 1(Jan 8): 447-452. ISSN: 2278-5213 (URL:<http://jairjp.com/Volume1issue8.html>) google scholar/peer reviewed
7. Shahi N.C, Lohani U.C. **Khan Chand** and Singh A. (2012). Effect of Pre-Cooling Treatments on Shelf Life of Tomato in Ambient Condition. *International Journal of Food, Agriculture and Veterinary Sciences*, 2(3): 50-56. (URL:<http://www.cibtech.org/jfav.htm>)
8. S. K. Singh, Chhedi Lal, N.C.Shahi and **Khan Chand**. (2013). Estimation of canal seepage under shallow water table conditions. *International Journal of Academia and Industrial Research*, 1(9):571-576. (URL; <http://jairjp.com/volume1issue9.html>) google scholar ISSN: 2278-5213
9. S.K. Singh, Chhedi Lal, D.K. Sharma, Sanjay Mathur, N.C. Shahi and **Khan Chand**. (2013). Comparison of measured and predicted evapotranspiration using Artificial Neural Network model. *International Journal of Academia and Industrial Research*, Vol.1 (12):816-819.
10. **Khan Chand**, A. K. Verma, Anil Kumar and N.C. Shahi. (2014). Effect of edible coating on quality parameters of jaggery during storage. *Sugar Tech* (Jan-Mar 2014), 16(1):80–85. DOI: 10.1007/s12355-013-0244-7 NAAS Rating : 6.81
11. A.E. Kate, U. C. Lohani, N. C. Shahi, J. P. Pandey, A. Sarkar and **Khan Chand** (2014). Effect of moisture content and feed rate on milling characteristics of wild apricot pits

- (*Pronus armeniaca* L.). *Int. J. Agric & Biol. Engg*, 7(1 Feb issue):103-110. ISSN:1934-6344;1934-6352 NAAS Rating: 4.9
12. U C Lohani, J P Pande y, Anupama Singh, N C Shahi and **Khan Chand (2014)**. Effect of moisture content on shelling characteristics of barnyard millet (*Echinochloa frumentacea*). *International Journal of Basic and Applied Agricultural Research*, Vol. 12(1:Jan-April):99-103. ISSN - 2582-2780 NAAS Rating: 3.0
  13. Rupali S. Lokhande, B.K. Kumbhar, N.C. Shahi, **Khan Chand** and Anupama Singh (2014). Drying Characteristics of Spinach (*Spinacia oleracea* L.) in Solar Tunnel Dryer. *International Agricultural Engineering Journal*, Vol.23 (2):57-63. NAAS Rating: 4.5
  14. A. Singh, I. Rana and **Khan Chand (2014)**. Utilization of apple pomace as a source of dietary fibre in biscuits. *International Agricultural Engineering Journal*, Vol 23(4): 28-35. NAAS Rating: 4.5
  15. Anjali Sharma and **Khan Chand (2015)**. Optimization of Fermentation Parameters to Reduce Fermentation Time of Idli Batter Using RSM. *Int. Journal of Science and Research*, 4(1, Jan):2254-2258. ISSN:2319-7064 Impact Factor:4.438
  16. Sanjay Kumar, A. Singh N.C. Shahi, **Khan Chand** and Kopal Gupta (2015). Optimization of substrate ratio for beer production from finger millet and barley. *International Journal of Agricultural and Biological Engineering*, vol 8 (2 April):110-120. IF: 1.349; NAAS Rating: 4.9; WoS/Scopus, ISSN:1934-6344 & eISSN 1934-6352
  17. Umesh Kumar, P.K.Omre and **Khan Chand (2015)**. Application of response surface method to optimize clarification process parameters for sugarcane juice. *International Journal of Food Processing & Technology*, vol 6(2, Feb):1-6. <http://dx.doi.org/10.4172/2157-7110.1000422> Impact factor: 2.53 ISSN:2157-7110
  18. A. Semwal, A. Singh, **Khan Chand**, and N.C. Shahi (2015). Quality assessment of probiotic weaning mix from fermented cereal-legume blends. *International Journal of Agriculture, Environment and Biotechnology*. Vol 8(1, March):207-217. DoI: 10.5958/2230-732X.2015.00006.6 NAAS Rating: 4.10
  19. Ishrat Bano, Kopal Gupta, Anupama Singh, N.C.Shahi, **Khan Chand** and Versika Gangwar (2015).Finger Millet:A potential source for production gluten free beer. *International Journal of Engineering Research and Applications*, (ISSN: 2248-9622, Vol. 5, Issue 7, (Part – 2, July):74-77. UGC care and Impact factor: 1.325
  20. **Khan Chand**, Sanjay Kumar and S. B. Bhardwaj (2016). Vacuum drying of concentrated malta juice for production of malta powder using RSM. *International Journal of*

*Agriculture, Environment and Biotechnology*, 9(1Feb.):715-725. NAAS Rating: 4.54  
DOI: 10.5958/2230-732X.2015.00079.0

21. Anjali Sharma and **Khan Chand (2016)**. Optimization of fermenting parameters for Idli batter. *European Journal of Biotechnology and Bioscience*, vol.4 (2, Feb):48-52. Impact Factor: 5.42 and NAAS rating 3.04
22. **Khan Chand**, Sachin Kumar, Asfaq and Divya Saxena (2016). Fermented foods and their health benefits. *European Journal of Biotechnology and Bioscience*, Vol 4 (9 September): 27-28. Impact Factor: 5.42
23. Ritesh Mishra, P.K. Omre, **Khan Chand**, Sanjay Kumar (2016). Efficacy of a coating composed of carboxymethyl cellulose and whey protein concentrate to control the quality of jaggery. *International Journal of Engineering Science and Research Technology*, 5(4April): 385-398; ISSN2277-9655. UGC care and Impact Factor: 3.785
24. **Khan Chand**, Manish Pant, A. K. Verma and N.C. Shahi (2017). Optimization of Enzymatic Saccharification for Quality Bio-oil from Rice Straw. *International Journal of Chemical Studies*, 5(1):233-239. NAAS rating 5.31
25. Rahul Singh, **Khan Chand** and N.C. Shahi (2017). Enhancement of shelf life of fresh cut papaya under different storage conditions using edible coating. *International Journal of Basic and Applied Agricultural Research*, 15(1, 2 Jan-Aug):60-67. NAAS rating 4.60
26. Mukesh Kumar, N.C. Shahi, J. P. Pandey, and **Khan Chand (2017)**. Optimization of drying parameters for fenugreek in solar tunnel dryer. *International Journal of Basic and Applied Agricultural Research*, 15(1, 2 Jan-Aug):68-76. NAAS rating 4.60
27. **Khan Chand** and Anupama Singh (2017). Effect of Process Parameters on Quality of Dried Nettle Leaves. *International Journal of Chemical Studies*, 5(5 Sept):255-259. NAAS rating 5.31
28. Ganesh Upadhyay, **Khan Chand**, Neeraj Kumar and Gulshan Kumar Malik (2017). Measurement of thermal conductivity of food grains by coaxial dual cylinder apparatus. *Chemical Science Review and Letters Journal*, 6(23July-Sept): 1850-1857. UGC care and NAAS rating 5.21
29. Sachin Surwade and **Khan Chand (2017)**. Antimicrobial Packaging of Food: An Overview. *European Journal of Biotechnology and Bioscience*, 5(5 Sept):85-90. Google scholar Impact Factor: 5.42 and NAAS rating 3.04
30. **Khan Chand**, Shusheel Kumar and N. C. Shahi (2018). Effect of active packaging and coating materials on quality parameters of jaggery cubes. *International Journal of*

*Engineering Research and Technology*, (ISSN: 2278-0181), 7(1January):4-9. DOI: 10.17577/IJERTV7IS01000: Scopus

31. Rahul Singh and **Khan Chand (2018)**. Effect of edible coating materials on shelf life of fresh cut papaya fruit under different storage conditions. *International Journal of Chemical Studies*, 6(1Feb):1231-1235. NAAS rating 5.31
32. Sanjay Kumar, Anupama Singh, **Khan Chand** and Ritesh Mishra (2018). Methodology to optimize blend ratio of barley and finger millets for production of beer. *Int. J. Nutrition and Food Toxicology*, 2(5 Feb):439-450. ISSN: 2573-4946 Impact Factor: 4.1
33. **Khan Chand** and Shusheel Kumar (2018). Effect of moisture absorber and packaging materials on quality parameters of jaggery cubes. *International Journal of Chemical Studies*, 6(2 April): 1398-1404. NAAS rating 5.31
34. Harapriya Nayak, Archana Kushwaha, NC Shahi, **Khan Chand**, KPS Kushwaha, Kalpana Kulshrestha and CS Chopra (2018). Effect of drying parameters on water activity of pink oyster mushroom (*Pleurotus djamor*) powder. *Journal of Pharmacognosy and Phytochemistry*, 7(2 April): 2288-2292. NAAS rating 5.21
35. Pandey Raj, **Khan Chand** and Tewari, Lakshmi (2018). Solid state fermentation and crude cellulase based bioconversion of potential bamboo biomass to reducing sugar for bioenergy production. *Journal of The Science of Food and Agriculture*, 98(12 March): 4411-4419, <https://doi.org/10.1002/jsfa.8963>. Online ISSN:1097-0010; Impact factor: 4.125 NAAS rating 8.46; Scopus/WoS/UGC care, SCI Journal
36. Palmei Gaibimei, JP Pandey, **Khan Chand** and NC Shahi (2018). Optimization of ingredients for the production of foamed banana powder using response surface methodology. *International Journal of Chemical Studies*, 6(3): 955-960. NAAS rating 5.21
37. Iftikhar Alam and **Khan Chand (2018)**. Effect of drying parameters on quality attributes of green chilli. *Journal of Pharmacognosy and Phytochemistry*, 7(6, Dec): 1739-1741. (ISSN: 2278-4136) NAAS rating 5.21
38. Manish Pant and **Khan Chand (2019)**. Optimization of process parameters for production of bio-oil from rice straw. *International Journal of Basic and Applied Agricultural Research*, 17(1Jan-April):56-63. NAAS rating 4.60
39. Raja Joshi, **Khan Chand**, P.K.Omre and Jayant Singh (2019). Performance Evaluation of Animal Drawn Bay Leaf Grinder. *International Journal of Basic and Applied Agricultural Research*, 17(1Jan-April): 64-70. NAAS rating 4.60; Scopus/WoS/UGC care;

40. Rajeev Ranjan Thakur, Navin Chandra Shahi, Shukadev Mangaraj, Umesh Chandra Lohani and **Khan Chand (2020)**. Effect of apple peel based edible coating material on physicochemical properties of button mushrooms (*Agaricus bisporus*) under ambient condition. *International Journal of Chemical Studies*, 8(1, Jan): 2362-2370. <https://doi.org/10.22271/chemi.2020.v8.i1aj.8622> ISSN: 2321-4902 NAAS rating 5.21
41. Asfaq and **Khan Chand (2020)**. Effect of moisture absorber and high-density polyethylene bags on shelf life of edible coated jaggery cubes during storage. *Sugar Tech* (Nov-Dec 2020), 22(6):1130-1137. IF: 1.872, Scopus/UGC NAAS Rating : 6.81 DOI: 10.1007/s12355-020-00849-4
42. Gazia Nasir, **Khan Chand**, Z. R. Azaz Ahmad Azad, Sadaf Nazir and Mifftah Yaseen (2020). Optimization of Finger Millet and Carrot Pomace based Fiber Enriched Biscuits using Response Surface Methodology. *Journal of Food Science and Technology*, 57(12 Aug):4613-4626. ISBN0022-1155 Imp F.: 1.80, Scopus/UGC, NAAS Rating: 7.80 DOI: 10.1007/s13197-020-04499-y
43. Manish Pant, P.K. Omre, T.P. Singh, Pratima Awasthi, **Khan Chand** and Anil Kumar (2020). Screening and formulation of culture conditions for pyruvate production by *Candida glabrata* MCC 1800 from corn steep liquor. *International Journal of Chemical Studies*, 8(5Sept): 1290-1294. ISSN: 2349-8528 NAAS rating 5.21 DOI: <https://doi.org/10.22271/chemi.2020.v8.i5r.10480>
44. A.K. Verma, Shobhit Lakhera, **Khan Chand**, Ashutosh Dubey, T.K. Bhattacharya (2020). Optimization of two steps pretreatment techniques on lignin elimination in wheat straw to improve the bio-oil quality. *International Journal of Agricultural Engineering*, 13(2 Oct):195-211. NAAS rating 4.43 ISSN 0974-2662 (print), 0976-7223 (online), DOI:10.15740/HAS/IJAE. (WoS/UGC/Scopus)
45. Gurureet Singh and **Khan Chand (2020)**. Development and Performance Evaluation of Pedal Operated Dehuller for Black Soybean. *International Journal of Agricultural Engineering*, 13 (2 Oct): 245-251. ISSN: 0974-2662 DOI: 10.15740/HAS/IJAE/13.2/245-251 NAAS Rating: 4.43. (WoS/UGC/Scopus)
46. **Rajeev Ranjan, N.C.Shahi and Khan Chand (2021)**. Development of an organic coating powder and optimization of Process parameters for shelf-life enhancement of button mushrooms (*Agaricus bisporus*). *Journal of Food Processing and Preservation*, 45:(3, March):1-18. DOI: 10.1111/jfpp.15306, ID JFPP-08-20-2063.R1. [Article ID: JFPP15306 and Internal Article ID: 16993771] ISSN: 1745-4549 IF:2.609 Scopus/WoS NAAS rating: 7.3

47. Utpreksha Thapaliyal and **Khan Chand (2020)**. Process optimization for the characterization of wine from Burans flowers. *International Journal of Processing and Post Harvest Technology*, 11(2, Dec):18-26. DOI: 10.15740/HAS/IJPPHT/11.2/18-26  
ISSN: 0976-5638      NAAS rating: 3.48
48. Gurureet Singh and **Khan Chand (2021)**. Development and Evaluation of Pedal Operated Dehuller, *International Journal of Agricultural Mechanization in Asia, Africa and Latin America*, 52(3 summer): NAAS Rating: 6.3
49. Dhiraj Yadav, **Khan Chand** and N.C.Shahi (2021). Influence of fermentation conditions on the polyphenols, total flavonoids and antioxidant properties of wine produced from Burans petals. *Journal of Food Processing and Preservation*, 45(12 Dec): Article DOI: 10.1111/jfpp.16009 IF:2.609 Scopus/WoS      NAAS rating: 7.3
50. Sachin Kumar, Anil Kumar, Dr. PK Omre, **Khan Chand** and Iftikhar Alam (2021). Enhancement on vacuum foam mat quality parameters of papaya powder by using chemical preservatives. *Journal of Pharmacognosy and Phytochemistry*, 10(5 Sept):215-235. DOI: 10.22271/phyto.2021.v10.i5c.14214, (ISSN:2278-4136)  
NAAS rating 5.21
51. Sumit Kumar, **Khan Chand**, Umesh Kumar Lohani, Anupama Singh and Navin Chandra Shahi (2021). Process Optimization of Hand Operated Machine for Coating of Apples using Carboxymethyl Cellulose. *International Journal of Agriculture Innovations and Research*, 10 (2 Oct):71-82. NAAS:3.99      ISSN:2319-1473
52. Dhiraj Kumar Yadav, **Khan Chand** and Purnima Kumari (2022). Effect of fermentation parameters on physicochemical and sensory properties of Burans wine. *Journal of System Microbiology and Biomanufacturing*, 2 (1, Jan): 1-13. Scopus doi.org/10.1007/s43393-021-00074-4 ISSN: 2662-766
53. Pragati Srivastawa, Manvika Sahgal and **Khan Chand (2022)**. Optimization and identification of Siderophores produced by Pseudomonas monteilli strain MN759447 and its antagonism towards fungus associated with mortality in Dalbergia sissoo Plantation forests. *Journal of Frontiers in Plant Science, section Plant Symbiotic Interactions*, Vol.13:1-16. NAAS rating: 11.75 & IF:6.627 and ISSN:1664-462X, Scopus/UGC care/ web of science. <https://doi.org/10.3389/fpls.2022.984522>
54. Arshi Siddiqui and **Khan Chand (2023)**. Qualitative Analysis of Pectin Extracted Ultrasonically from Sweet Lime Peel. *Indian Journal of Ecology*, 50(1): 141-145. DOI: <https://doi.org/10.55362/IJE/2023/3867> NAAS rating: 5.79 (Web of science/Scopus) IF: 0.441; No: 30588-74.



55. Asfaq, **Khan Chand**, Gazia Nasir, Afzal Hussain, Bhawna Bisht, Shuchi Upadhyay, Sameer Ahmad and Sanjay Kumar (2023). Numerical optimization of process parameters and quality stability of active edible coated jaggery cubes during storage. *Journal of Agriculture and Food Research*, **14**: 100719, Thomson Reutor IF: 3.8, Scopus <https://doi.org/10.1016/j.jafr.2023.100790>

### Accepted Papers

1. Palmaei Gaibimei, Anupama Singh, Navin Chandra Shahi, Anil Kumar, **Khan Chand**, and Sourabh Kumar (2023). Screening of black soyabean hull extracts using GC-MS and comparative study of different extraction techniques with respect to antioxidants. *Phytochemical Analysis Journal*, (submitted in March 2023). **NAAS: 8.3**

### ❖ EXTENSION ACTIVITIES

#### ➤ Invited lectures/guest lectures/ radio talk/trainings

- 1) Delivered lecture on “Post Harvest Process and Value Addition” to N.G.O. on 26 Feb, 2009 organized by the deptt of Irrigation Drainage Engg, College of Technology, Pantnagar.
- 2) Delivered lecture on **Qy ,oa lfCt;ksa ls fufeZr izLladfjr mRikn** to N.G.O. at Bheemtal, Nainital.
- 3) Delivered lecture on “Gur ki Aushadhiya mahatta ” in the training programme “Jaggery Processing and Handling” during 19-24<sup>th</sup> April 2010 organized by AICRP on PHT, Deptt of PHP&FE, College of Technology
- 4) Delivered lecture on “xzkeh.k Lrj ij Qy&lfCt;kas dk y?qk izLladj.k” in the training programme “Quality Contol in Food Processing” during 26-31<sup>st</sup> March 2010 organized by AICRP on PHT, Deptt of PHP&FE, College of Technology
- 5) Delivered lecture on “mRrjk[k.M ds vkS" k/kh; rFkk lqxfU/kr ikS/kksa ds ckjs esa tkudkfj;kW” in the training programme “ Primary processing of Medicinal and Aromatic” during 5-11 June, 2010 organized by CEPHET, Ludhiyana, Punjab.
- 6) Demonstration of equipments developed at pantnagar carried out Under AICRP on PHT during 14-27, March, 2009 in different villages (Like: Hawalbagh, Daular, Ranman, Kanakpur, Raghavwala, Imlikhera, Haridwar, Dhanauti and Dehradun neer by villages) of whole Uttarakhand.

- 7) Delivered lecture on “Employment Opportunities in agro processing” in the training programme “Enterprenurship development in Agro Processing – Phase I” during 12-17 July 2010 organized by AICRP on PHT, Deptt of PHP&FE, College of Technology
- 8) Lecture and visits were made to Farmers on “Enterprenurship development in Agro Processing – Phase I” during 12-17 July 2010 (12/07/2010), In M/S Parle Ltd Sidcul, organized by AICRP on PHT, Deptt of PHP&FE, College of Technology, Pantnagar.
- 9) Lecture and visits were made to Farmers on “Enterprenurship development in Agro Processing – Phase I” during 12-17 July 2010 (15/07/2010), In Agro Processing centre, Fatabangar, Haldwani, NTL, organized by AICRP on PHT, Deptt of PHP&FE, College of Technology, Pantnagar.
- 10) Lecture and visits were made to Farmers on “Enterprenurship development in Agro Processing – Phase I” during 12-17 July 2010 (17/07/2010), In M.R.D.C., Pantnagar Haldi, organized by AICRP on PHT, Deptt of PHP&FE, College of Technology, Pantnagar.
- 11) Delivered lecture on “Development of small scale unit for hand making paper” in the training programme “Enterprenurship development in Agro Processing – Phase II” during 16-21 August 2010 (16/8/2010) organized by AICRP on PHT, Deptt of PHP&FE, College of Technology, Pantnagar.
- 12) Lecture and visits were made to Farmers on “Enterprenurship development in Agro Processing – Phase II” during 12-17 August 2010 (17/08/2010), In M/s Ridhi Sidhi Pvt. Ltd Pantnagar SIDCUL, organized by AICRP on PHT, Deptt of PHP&FE, College of Technology, Pantnagar.
- 13) Lecture and visits were made to Farmers on “Enterprenurship development in Agro Processing – Phase II” during 12-17 August 2010 (19/08/2010), In Agro Processing centre, Fatabangar, Haldwani Nainital, organized by AICRP on PHT, Deptt of PHP&FE, College of Technology, Pantnagar.
- 14) Lecture and visits were made to Farmers on “Enterprenurship development in Agro Processing – Phase II” during 12-17 August 2010 (16/08/2010), In M.R.D.C., Pantnagar Haldi, organized by AICRP on PHT, Deptt of PHP&FE, College of Technology, Pantnagar
- 15) Delivered lecture to Farmers on “xqM+ ds vkS" k/kh; xq.k” during 29-31, August, in the training programme on “Aatma” 2011(31/08/2011), organized by Directorate of Extension, Pantnagar.

- 16) Delivered lecture to Farmers on “xqM+ ds fofHkUu mRikn ,oa mudh xq.koRrk” during 29-31, August, in the training programme on “Aatma” 2011(31/08/2011), organized by Directorate of Extension, Pantnagar.
- 17) Delivered lecture to Farmers and B.T.C. members of Uttarakhand on the topic of “lfCt;ksa dk dVkbZ mijUr izcU/ku ,oa ewY; lao)Zu” on 9/9/2011, organized by Directorate of Extension Education, Pantnagar.
- 18) Delivered lecture to Farmers Advisory Committee (FAC) and B.T.C. Members of Uttarakhand on the topic of “ Qy ,oa lCth izlaLdj.k O;olk;% dc] dSlS vkSj dgk “kq# djsa” during 9-12 Oct, 2012 (9/10/2012) organized by Directorate of Extension Education, at Krishak Bhawan and Training Centre(SAMETI) Pantnagar.
- 19) Delivered lecture to B.Sc (Ag), B.Sc (Horticulture) and B.Sc (Forestry) on “Entrepreneurship Development for small scale Food Processing Industry” Under Rural Agricultural Work Experience (RAWE) during 7-14 August, 2012 (13/08/2012) organized by the Department of Agronomy, College of Agriculture, Pantnagar.
- 20) Delivered lecture to NGO and SHG (Bheemtal) on ^d`f" k vk/kkfjr [kk] mRiknksa ds cktkjhdj.k gsrq lq>kko\* under **National Fellow Scheme (ICAR)** during November 12-13, 2013 organized by the Department of Post Harvest Process and Food Engg, College of Tech, GBPUAT, Pantnagar.
- 21) Delivered lecture to the farmers of Ajmer (Rajasthan) on izlaLdj.k rFkk foi.ku dh vk/kqfud rduhdh ([kk] mRiknks ds izlaLdj.k gsrq cktkjhdj.k uhfr;ka) under project ^vkRek ifj;kstuk vtesaj\*\* during 18-22 November, 2013 (22/11/13, 9.30-10.30AM) organised by Directorate of Extension Education, GBPUAT, Pantnagar.
- 22) Delivered lecture to the farmers of Ajmer (Rajasthan) on izlaLdj.k rFkk foi.ku dh vk/kqfud rduhdh ([kk] izlaLdj.k esa y?kq mlfere ,oa vko';d tkudkfj;kaa) under project ^vkRek ifj;kstuk vtesaj\*\* during **18-22 November, 2013** (22/11/13, 10.30-11.30AM) organized by Directorate of Extension Education, GBPUAT, Pantnagar.
- 23) Delivered lecture in the winter school for the trainees of rank Assistant Professor in ICAR sponsored training on “Post Harvest Diseases and pest management for ensuring food security” on Demonstration of Post Harvest Processing operation and equipments organized by the deptt of Plant Pathology College of Agriculture, Pantnagar on 19/03/2014 during **05 to 25 March, 2014**
- 24) Delivered lecture to the farmers of **Distt. U. S. Nagar** Uttarakhand on [kk] izlaLdj.k mRiknks esa foi.ku dk egRo under project ^iksLV gkosZLV VSDuksyKWth ,.M

eSusteSUV\*\* during **05-10 January, 2015** (05/01/2015; 2.30-4 PM) organized by Directorate of Extension Education, GBPUAT, Pantnagar.

- 25) Delivered lecture to the farmers of **Distt. U. S. Nagar** Uttarakhand on Qy rFkk lfCt;ksa esa laj{k.k under project ^iksLV gkosZLV VSDuSykWth ,.M eSusteSUV\*\* during **05-10 January, 2015** (06/01/2015; 11-1 PM) organized by Directorate of Extension Education, GBPUAT, Pantnagar.
- 26) Delivered lecture to the farmers of **Distt. U. S. Nagar** Uttarakhand on [kk] izlaLdj.k inkFkksZ ds HkaMkj.k ds nkSjku lqj{kk gsrq tkudkj;ka under project ^iksLV gkosZLV VSDuSykWth ,.M eSusteSUV\*\* during **05-10 January, 2015** (7/01/2015; 2.30-4 PM) organized by Directorate of Extension Education, GBPUAT, Pantnagar.
- 27) Delivered lecture to the farmers of **Distt. U. S. Nagar** Uttarakhand on xqM HkaMkj.k lacf/kr leL;k,s ,oa lek/kku under project ^iksLV gkosZLV VSDuSykWth ,.M eSusteSUV\*\* during **05-10 January, 2015** (7/01/2015; 4- 5 PM) organized by Directorate of Extension Education, GBPUAT, Pantnagar
- 28) Delivered lecture to the farmers of **Distt. U. S. Nagar** Uttarakhand on izladfjr mRikn gsrq foi.ku lEc/kr tkudkj;ka ,ao rduhfd;ka under project ^iksLV gkosZLV VSDuSykWth ,.M eSusteSUV\*\* during **05-10 January, 2015** (10/01/2015; 2.30-4PM) organized by Directorate of Extension Education, GBPUAT, Pantnagar
- 29) Delivered lecture to the farmers of **Distt. Nainital & U.S. Nagar** Uttarakhand on [kk] izlaLdj.k mRiknks esa foi.ku dk egRo under project ^iksLV gkosZLV VSDuSykWth ,.M eSusteSUV\*\* during **12-17 January, 2015** (12/01/2015; 2.30-4 PM) organized by Directorate of Extension Education, GBPUAT, Pantnagar
- 30) Delivered lecture to the farmers of **Distt. Nainital & U.S. Nagar** Uttarakhand on Qy rFkk lfCt;ksa esa laj{k.k under project ^iksLV gkosZLV VSDuSykWth ,.M eSusteSUV\*\* during **12-17 January, 2015** (13/01/2015;11-1 PM) organized by Directorate of Extension Education, GBPUAT, Pantnagar.
- 31) Delivered lecture to the farmers of **Distt. Pithoragarh** Uttarakhand on [kk] izlaLdj.k mRiknks esa foi.ku dk egRo under project ^iksLV gkosZLV VSDuSykWth ,.M eSusteSUV\*\* during **19-24 January, 2015** (19/01/2015; 2.30-4 PM) organized by Directorate of Extension Education, GBPUAT, Pantnagar
- 32) Delivered lecture to the farmers of **Distt. Pithoragarh** Uttarakhand on Qy rFkk lfCt;ksa esa laj{k.k under project ^iksLV gkosZLV VSDuSykWth ,.M

- eSusteSUV\*\* during **19-24 January, 2015** (20/01/2015;11-1 PM) organized by Directorate of Extension Education, GBPUAT, Pantnagar.
- 33) Delivered lecture to the farmers of **Distt. Bageshwer** Uttarakhand on [kk] izlaLdj.k mRiknks esa foi.ku dk egRo under project ^iksLV gkosZLV VSDuksyKWth ,.M eSusteSUV\*\* during **26-31 January, 2015** (27/01/2015; 9.30-11 AM) organized by Directorate of Extension Education, GBPUAT, Pantnagar
- 34) Delivered lecture to the farmers of **Distt. Bageshwer** Uttarakhand on Qy rFkk lfCt;ksa esa laj{k.k under project ^iksLV gkosZLV VSDuksyKWth ,.M eSusteSUV\*\* during **26-31 January, 2015** (28/01/2015;10-11 AM) organized by Directorate of Extension Education, GBPUAT, Pantnagar.
- 35) Delivered lecture to the farmers of **Distt. Champawat and Dehradun** Uttarakhand on [kk] izlaLdj.k mRiknks esa foi.ku dk egRo under project ^iksLV gkosZLV VSDuksyKWth ,.M eSusteSUV\*\* during **February 9-14, 2015** (10/02/2015;9.30-11 AM) organized by Directorate of Extension Education, GBPUAT, Pantnagar.
- 36) Delivered lecture to the farmers of **Distt. Champawat and Dehradun** Uttarakhand on **xqM+ dh vkS" k/kh; egRrk** under project ^iksLV gkosZLV VSDuksyKWth ,.M eSusteSUV\*\* during **February 9-14, 2015** (10/02/2015;11AM-1PM) organized by Directorate of Extension Education, GBPUAT, Pantnagar.
- 37) Delivered lecture to the farmers of **Distt. Champawat and Dehradun** Uttarakhand on Qy rFkk lfCt;ksa esa laj{k.k under project ^iksLV gkosZLV VSDuksyKWth ,.M eSusteSUV\*\* during **February 9-14, 2015** (11/02/2015;10-11 AM) organized by Directorate of Extension Education, GBPUAT, Pantnagar.
- 38) Delivered lecture to the farmers of **Distt. Haridwar** Uttarakhand on [kk] izlaLdj.k mRiknks esa foi.ku dk egRo under project ^iksLV gkosZLV VSDuksyKWth ,.M eSusteSUV\*\* during **February 16-21, 2015** (17/02/2015;10-11.30 AM) organized by Directorate of Extension Education, GBPUAT, Pantnagar.
- 39) Delivered lecture to the farmers of **Distt. Haridwar** Uttarakhand on **xqM+ dh vkS" k/kh; egRrk** under project ^iksLV gkosZLV VSDuksyKWth ,.M eSusteSUV\*\* during **February 16-21, 2015** (17/02/2015;11.30AM-1PM) organized by Directorate of Extension Education, GBPUAT, Pantnagar.
- 40) Delivered lecture to the farmers of **Distt. Haridwar** Uttarakhand on Qy rFkk lfCt;ksa esa laj{k.k under project ^iksLV gkosZLV VSDuksyKWth ,.M eSusteSUV\*\*

- during **February 16-21, 2015** (18/02/2015;11-12 AM) organized by Directorate of Extension Education, GBPUAT, Pantnagar.
- 41) Delivered lecture to the farmers of **Distt. Dehradun** Uttarakhand on [kk] izlaLdj.k mRiknks esa foi.ku dk egRo under project ^iksLV gkosZLV VSDuSykWth ,.MeSusteSUV\*\* during **February 23-28, 2015** (24/02/2015;9.30-11.00 AM) organized by Directorate of Extension Education, GBPUAT, Pantnagar.
  - 42) Delivered lecture to the farmers of **Distt. Dehradun** Uttarakhand on Qy rFkk lfCt;ksa esa laj{k.k under project ^iksLV gkosZLV VSDuSykWth ,.MeSusteSUV\*\* during **February 23-28, 2015** (25/02/2015;10-11 AM) organized by Directorate of Extension Education, GBPUAT, Pantnagar.
  - 43) Delivered lecture to the farmers on 26/06/2015 (10.30Am to 12.30PM) in one day training programme on **vke ds mRikn** organized at Institute of Food Science and Technology, Majrigrant, Dehradun, VCSG,UUHF, Bharsar.
  - 44) Delivered a lecture to Academician and Industrialist on “**Marketing Opportunities for small scale entrepreneurs**” under **ACADEMIA INDUSTRY INTERFACE** (Foundation –Day Week) during 12-17 November, 2016 (2.05 -3.05PM) at GBPUAT, Pantnagar, Uttarakhand.
  - 45) Delivered a lecture to faculty/scientists in winter school ICAR sponsored on “Technological advances to minimize pre and Post Harvest Losses in agricultural and Horticultural Crops to Enhance Farmer’s Income” on **Entrepreneurship development for small scale food processing industries**, on 6/11/2017 2.30 to 3.30 from November 22 to Dec 12, **2017** under the CAFT in Plant Pathology, Pantnagar.
  - 46) Delivered lecture to Farmers of Garhwal region, Utrrakhand on the topic of “Qy ,oa lCth izlaLdj.k O;olk;% dc] dSlS vkSj dgk 'kq# djsa” during 8-11 August, 2018 on 8/08/2018 at 2.30 to 4.00PM organized by Directorate of Extension Education, at Krishak Bhawan and Training Centre(SAMETI), Pantnagar.
  - 47) Delivered lecture to French students on “Entrepreneurship development for agricultural graduates” under internship programme by the GBPUAT, University in the Department of Post Harvest Process and Food Engg, College of Technology, Pantnagar, Uttarakhand, on 07/08/2018 at 9.30AM to 12.30PM during 6 to 21 August, 2018.
  - 48) Delivered lecture to Farmers on the topic of “Qy ,oa lCth izlaLdj.k O;olk;% dc] dSlS vkSj dgka 'kq: djsa” under Qy ,oa lCth izlaLdj.k&,d ykHkdKjh O;olk; during

- 19-22 August, 2019 (20/08/2019, 2:30 – 4:00 PM) organized by Directorate of Extension Education, at Krishak Bhawan and Training Centre(SAMETI) Pantnagar.
- 49) Delivered lecture to the farmers of different states on topic xq.koRrk ekud iSdsftax ifjogu ,oa izlaLdj.k e'k:e dk Hk.Mkj.k%y?kq ,oa nh?kZ vof/k ds vUrZxr Lojkstxkj ;kstukRxZr e'k:e mRiknu izf'k{k.k a” organized by Directorate of Extension Education, at Krishak Bhawan and Training Centre(SAMETI) Pantnagar from 13 May to 17 May 2019 (16 May 2019, 11-13 PM.).
- 50) Delivered lecture to the self-help group about 40 to 50 members of uttarakhand on topic xq.koRrk ekud iSdsftax ifjogu ,oa izlaLdj.k e'k:e dk Hk.Mkj.k%y?kq ,oa nh?kZ vof/k ds vUrZxr ¼7&9] 2019] 12%00&1%30½ e'k:e mRiknu rduhfd ,oa vkthfodk lao/kZu a” organized by mRrjk[kaM xzke fodkl ,oa iapk;rhjkt laLFkku :nziqj] m|e flag uxj fnukad 5&7 flrEcj 2019

### ❖ Training Programme Organized

1. Organized six days training programme on “Jaggery Processing and Handling” for 20 farmers, entrepreneurs of Uttaranchal during April 2010
2. Organized six days training programme on “Entrepreneurship development in Agro Processing – Phase I” for 10 farmers, entrepreneurs of Uttaranchal during July 2010
3. Worked as a key member to organize six days training programme on “Entrepreneurship development in Agro Processing – Phase II” for 10 farmers, entrepreneurs of Uttaranchal during 16-21 August 2010
4. Worked as a key member to organize six days training programme on “Quality Control in Food Processing” for 20 farmers, ladies of Uttaranchal during March 2010.
5. Organized one day training programme on **vke ds mRikn** for 25 farmers at IFST, Majrigrant during 26 June, 2015.
6. Organized **one day** training programme on Post Harvest Technologies Dissemination for Entrepreneurship Development under the Project Sub-Mission on Agricultural Mechanization of “Demonstration, Training and Distribution of Post Harvest Technology and Management (PHTM)for 35 farmers at Dhungshil Talla, Bheemtal Nainital on **15 May, 2019.**
7. Organized **one day** training programme on Post Harvest Technologies Dissemination for Entrepreneurship Development under the Project Sub-Mission on Agricultural Mechanization of “Demonstration, Training and Distribution of Post Harvest

Technology and Management (PHTM) for 35 farmers in the Department of Post Harvest Process and Food Engg, College of Technology, Pantnagar, Uttarakhand on **04 June, 2019**

8. Organized **one day** training programme on Post Harvest Technologies Dissemination for Entrepreneurship Development under the Project Sub-Mission on Agricultural Mechanization of “Demonstration, Training and Distribution of Post Harvest Technology and Management (PHTM) for 35 farmers at Village: Baikunthpur, Shaktifarm, Sitarganj, U.S.Nagar, Uttarakhand on **05 July, 2019**.
9. Organized **two days** training programme on Post Harvest Technologies Dissemination for Entrepreneurship Development under the Project Sub-Mission on Agricultural Mechanization of “Demonstration, Training and Distribution of Post Harvest Technology and Management (PHTM) for 35 farmers in the Department of Post Harvest Process and Food Engg, College of Technology, Pantnagar, Uttarakhand from **12 to 13 July, 2019**.
10. Organized **two days** training programme on Post Harvest Technologies Dissemination for Entrepreneurship Development under the Project Sub-Mission on Agricultural Mechanization of “Demonstration, Training and Distribution of Post Harvest Technology and Management (PHTM) for 35 farmers in the Department of Post Harvest Process and Food Engg, College of Technology, Pantnagar, Uttarakhand from **30 to 31 July, 2019**.

#### ❖ **Training programmes / short courses/ seminars/ conferences/workshops attended**

##### ➤ **National**

- 1) Attended **two days**’ workshop on “Effective Teaching Pedagogy to Maximize Learning” conducted on January 2-3, 2008 at College of Technology, G.B Pant University of Agriculture and Technology, Pantnagar in collaboration with University of Illinois at Urbana-Champaign, USA under Technical Education Quality Improvement Program.
- 2) Attended **10 days** short course on “Retailing and Merchandising of Fast-Moving Consumer Goods” at Deptt of Clothing and Textiles, College of Home Science during 26.11.08 to 5.12.08



- 3) Participated in Brain Storming Session on” Post Harvest Technology Research in Sugarcane including Gur and Khandsari” at IISR Lucknow on 24th October 2009.
- 4) Attended **two days** sensitization workshop on “Bio-Safety Issues Related to Practicing Agricultural Biotechnology” at College of Basic Science and Humanities, G.B.P.U.A. &T. Pantnagar, from 3-4, November, 2008.
- 5) Successful completed **six days** training on “Facilitation Skills in Teaching” from 7 – 12 July 08 in the deptt. of Agricultural Communication College of Agriculture, G.B.P.U.A. &T. Pantnagar Uttrakhand.
- 6) Successful completed **21 days** winter school on “Processing, Handling and Storage of Jaggery from Sugarcane” from December 10 to December 30, 2007 at Indian Institute of Sugarcane Research, lucknow
- 7) Successful completed **21 days** summer school on “Adoptive Production Technologies of Sugarbeet under Indian conditions” from 1-21 June, 2011 at Indian Institute of Sugarcane Research, Lucknow.
- 8) Successful completed **three days** training programme on “Understanding Self for Managerial Excellence” at Indian Institute of Management lucknow during November 22-24, 2008.
- 9) Successful completed **six days** training programme on “Infrastructural development and its impact on environment” at college of Technology, Dept of Civil Engg, G. B. Pant Univ. of Agri. & Technology Pantnagar during February 02-07, 2009.
- 10) Successful completed **six days** training programme on “Researchers’ Training IV: “Data Analysis Using SAS” during November. 22-27, 2010 under the NAIP Project at Consortium Partner Indian Veterinary Research Institute, Izatnagar, Bareilly, U.P.
- 11) Successful completed **15 days** training programme on “Computer Applications in Science and Technology” organized by Deptt of Mechanical Engg, College of Technology, Pantnagar, **during Oct 9-23, 2012.**
- 12) Successful completed **3 days** training programme on “Training on First Aid and Disaster Management” organized by College of Basic Sciences & Humanities, Pantnagar **during 17-19 August, 2012.**
- 13) Successful completed AICTE sponsored **15 days** Faculty Development Programme on “Information and Cyber Security Management” organized by the department of

Computer Engg, College of Technology, Pantnagar from **December 22, 2013 to January 5, 2014.**

- 14) Successful completed TEQIP-II sponsored **3 days** training programme on “Quality initiatives in Technical and Higher Educational Institutions in compliance with NBA accreditation” organized by Engineering Staff College of India, Hyderabad (AP) at College of Technology, GBPUAT, Pantnagar from **2//02/2014 to 4/02/2014.**
- 15) Participated in **3 days** National Seminar on “National Resource Management and Environment Concerns” organized by College of Technology, GBPUAT, Pantnagar, Uttarakhand under Technical Education Quality Improvement Programme (TEQIP-II) from **May 16-18, 2014.**
- 16) Successful completed (TEQIP-II, CoE) sponsored **5 days** training programme on “Advanced Soft Computing Techniques and its Applications” organized by College of Technology, GBPUAT, Pantnagar from **19//09/2016 to 23/09/2016**
- 17) Successful completed **Two days** workshop on “Food Material Rheology” at Anton Paar India Pvt Ltd Gurgaon, Haryana during September 25-26, **2017.**
- 18) Successful completed **Two days** workshop on “Industry Oriented Engineering Education” organized by College of Technology, GBPUAT, Pantnagar under Industry-Institute Interaction (TEQIP-III) during **4-5 May, 2018.**
- 19) Successful completed **Five days** summer workshop on Active Learning, Autonomy, Academic Governance and R & D at IIT Roorkee under TEQIP-III operating in College of Technology, Pantnagar during **11-15 June 2018.**
- 20) Successful completed **Four days** international training/workshop on “Multicountry Observational Study Mission on Sustainable Food Value Chains” organized by Asian Productivity Organization and implemented by the secretariat from **22 to 25 April, 2019** Tokyo, Japan.
- 21) Successful completed **two-week E-course** on “**Digital Transformation in Teaching Learning Process**” organized by IIT Bombay (TEQIP-III) from **April 6 to April 22, 2020.**
- 22) Attended **one day** webinar on “**Farm Fresh Produce Processing: Challenges and Interventions**” organized by ICAR-CIAE Regional Centre Coimbatore on **04/09/2020.**
- 23) Attended **one day** National Webinar on “**Edible Oil Fortification: From Commitment to Action**” organized by GAIN: Global Alliance for Improved

Nutrition, Qutab Institutional Area, Shaheed Jeet Singh Marg, New Delhi on **25/09/2020**.

- 24) Attended **one day** National Webinar on “**Value Addition of Underutilized Food Crops**” organized by the Department of Processing and Food Engineering, College of Technology, Maharana Pratap University of Agriculture and Technology, Udaipur, Rajasthan on **08/10/2020**.
- 25) Attended **two days** National Webinar on “Recent Trends in Food Processing and Preservation (TEQIP-III)” organized by the Department of Food Process Engg, National Institute of Technology, Rourkela, Odisha, India from **26 to 27 September, 2020**.
- 26) Attended **one day** webinar on “**Turmeric Processing: A spice to boost immunity**” organized by ICAR-(CIAE) Central Institute of Agricultural Institute, Regional Centre, Coimbatore on **16/10/2020**.
- 27) Attended **Two days** National **E-Workshop** on “**Current Scenario of Post Graduation Research in Agriculture Sector**” organized under the aegis of world Bank –ICAR Funded National Agricultural Higher Education Project (NAHEP) Swami Keshawanand Rajasthan Agricultural University, Bikaner, Rajasthan, during **9-11 September 2020**.
- 28) Attended **Three days** National Webinar series on “**New Dimensional Approaches in Food Processing**” organized by University of Horticultural Sciences, Bagalkote, College of Horticultural Engineering and Food Technology and Horticulture Research & Extension, Devihosur, Karnataka from **14 to 16<sup>th</sup> October, 2020**.
- 29) Successful completed **one-week** online Faculty Development Programme on “**Exploring Academic and Investigative Dimensions in Food Research**” organized by Department of Food Technology, Mizoram University (Central) NEAST from **2 to 7 November, 2020**.
- 30) Participated in **one day** National Webinar on “**Agricultural Processing, Supply Chain and Warehousing-Profitable Agriculture**”, a sub-theme of “Transforming Agricultural Education Institutions for Better Future through Industry-Academia Collaborations”, organized by Acharya N.G Ranga Agricultural University, Guntur A.P. on **6<sup>th</sup> October 2020** under World Bank Funded Institutional Development Plan (IDP) of National Agricultural Higher Education Project, ICAR.

- 31) Successful completed **Five Days** workshop on “**Cyber Security and Cyber Forensics**” organized by the School of Computer Science and Engineering, VIT-AP University, Amaravati, Andhra Pradesh, India during **9 - 13 June, 2021**.
- 32) Attended **one day** webinar on “**Nanotechnology Applications for Food Processing Industries**” organizes by the Department of Food Engineering, NIFTEM, Kundli, Haryana, India on **29 June, 2021**.
- 33) Successful completed **Five Days** AICTE Training and Learning (ATAL) Academy Online Advanced FDP on on “**Non-Thermal Processing of Food Products**” **organized by** College of Food Processing Technology and Bio Energy, Anand Agriculture University, Anand, Gujrat **from 27/12/2021 to 31/12/2021**.
- 34) Attended **Two days** National **Workshop** on “Plant Genetic Resources of Nagaland: Dynamic Conservation & Enhancing Rural Income” organized by Department of Horticulture, SASRD, Nagaland University, Medziphema and ICAR- NBPGR New Delhi on **4-5 March, 2022**.
- 35) Attended **Six days** International Faculty Development Programme on “Advances in Machine Learning, Image Processing and Natural Language Processing organized by Department of Information Technology, School of Engineering and Technology, NU, Dimapur, from **16 to 21 August, 2023**.

➤ **International : Nil**

❖ **PAPERS PRESENTED & PUBLISHED IN PROCEEDINGS:**

➤ **National**

- 1) U.C. Lohani, JP Pandey, NC Shahi, Anupama Singh and **Khan Chand**. Microwave drying of orange (*Citrus sinensis*) slices, at the XXI ICFOST on Innovations in Food Science and Technology to Fuel the growth of the Indian Food Industry organized during 20-21 January, 2012 at Pune, Maharashtra, India.
- 2) **Khan Chand**, JP Pandey, A Singh, NC Shahi and UC Lohani. Performance evaluation of continuous type sugarcane juice clarifier, at the XXI ICFOST on Innovations in Food Science and Technology to Fuel the growth of the Indian Food Industry organized during 20-21 January, 2012 at Pune, Maharashtra, India.
- 3) **Khan Chand**, N.S.Mehta, N.K.Pujari and Sachin Kumar. “*Development of Continuous Type Sugarcane Juice Clarifier*” Presented in National Conference on Newer Advances

in Food Science & Technology held at Deptt of Food Technology, Faculty of Engg & Technology R.B.S. College, Bichpuri, Agra (UP) during 5-6, March 2011.

- 4) Sachin Kumar, Bhumika Arya, Neha Saini and **Khan Chand**. ***“Pretreatment to Reduce Cooking Time of Horse Gram”*** Presented in National Conference on Newer Advances in Food Science and Technology held at Deptt of Food Technology, Faculty of Engg. & Technology R.B.S. College, Bichpuri, Agra (UP) during 5-6, March 2011.
- 5) Mohan G., Singh A. and **Khan Chand**. 2008. Storage Behaviour of Jaggery Chocolate. Presented at National Seminar held at Kerela Agricultural University Thrissur, Kerela during 29 & 30, September, 2008.
- 6) Maheshwari A., Thapaliyal D., **Khan Chand**, Singh A, and Shahi N.C. 2008. **Performance evaluation of modified jaggery storage bin**. Presented at National Seminar held at Kerela Agricultural University Thrissur, Kerela during 29 & 30, September, 2008.
- 7) Shahi N.C., Rana D.N. and **Khan Chand**. ***Design and Development of Low-Cost Solar Poly Tunnel Vegetable Dryer***, 1-3 Feb 2008. 42nd Annual Convention & Symposium of ISAE at CIAE Bhopal.
- 8) Iftikhar Alam, **Khan Chand** and Sachin Kumar. ***“Post harvest handling of mushroom”***. Presented in National Conference on Newer Advances in Food Science & Technology held at Deptt of Food Technology, Faculty of Engg & Technology R.B.S. College, Bichpuri, Agra (UP) during 5-6, March 2011.
- 9) Malay Bisht, M. K. Verma and **Khan Chand**. ***“Potato: Storage Management, Storage Structures and Ventilation”***. Presented in National Seminar held at G.B.P.U.A. &T. Pantnagar during 27-1, March 09.
- 10) **Khan Chand**, Malay Bisht, M.K.Verma and U.C.Lohani. ***“Effect of Storage on Physical and Mechanical Properties of Potatos”*** Presented in national Symposium held at IIT Kharagpur during 24-25 February, 2011.
- 11) A. Singh, **Khan Chand** and Mohan G. 2008. ***Storage behaviour of jaggery chocolate, In: Proceedings*** of National seminar on Food security through innovations in food processing and entrepreneurship development, Kerala Agricultural University, Vellanikkara, Thrissur 29-30 September, pp154.
- 12) Manjeeta Saini, VC Joshi and **Khan Chand**, 2009. ***Emerging problems with food allergens, In: Proceedings*** of National seminar on Nutritional strategies for improving quality of life, Deptt of foods and Nutrition, College of Home Science, GBPUAT, Pantnagar from 11-12 September, pp163.

- 13) Deepti, Anjali Sharma, **Khan Chand**, J.P.Pandey and N.C.Shahi.2013. Production of bio-diesel from waste cooking oil using enzyme. In: Proceedings of National seminar on Technological Interventions for Sustainable Hill Development, College of Technology, GBPUAT, Pantnagar from 17-19 June, pp36.
- 14) Azad Gaur, N.C.Shahi, **Khan Chand** and A.E.Kante.2013. Zero Energy evaporative cooling for on farm storage of perishable vegetables and fruits. **In: Proceedings** of National seminar on Technological Interventions for Sustainable Hill Development, College of Technology, GBPUAT, Pantnagar from 17-19 June, pp70.
- 15) R.C. Joshi, Sachin Kumar, **Khan Chand** and Iftikhar Alam 2013. Study of dehydration characteristics of goat weeds. **In: Proceedings** of National seminar on “Technological Interventions for Sustainable Hill Development”, College of Technology, GBPUAT, Pantnagar from 17-19 June, pp77.
- 16) Anjali Sharma, Deepti, **Khan Chand** and A.K. Verma, 2013. Probiotic fermented food for health: An overview. **In: Proceedings** of National seminar on “Technological Interventions for Sustainable Hill Development”, College of Technology, GBPUAT, Pantnagar from 17-19 June, pp79.
- 17) Rishi Richa, J.P.Pandey, N.C.Shahi and **Khan Chand** and Sheshrao S. Kautkar, 2013. Food fortification: A need of the present. **In: Proceedings** of National seminar on “Technological Interventions for Sustainable Hill Development”, College of Technology, GBPUAT, Pantnagar from 17-19 June, pp81.
- 18) Navin Kumar Navnit and **Khan Chand**, 2013. Advanced refrigeration system in grain storage bin. **In: Proceedings** of National seminar on “Technological Interventions for Sustainable Hill Development”, College of Technology, GBPUAT, Pantnagar from 17-19 June, pp86.
- 19) A.E. Kate, Anvesha Sarkar, N.C.Shahi, U.C.Lohani and **Khan Chad**, 2013. Scope for technological improvement in fermentation process. **In: Proceedings** of National seminar on “Technological Interventions for Sustainable Hill Development”, College of Technology, GBPUAT, Pantnagar from 17-19 June, pp92.
- 20) Deepti, Anjali Sharma, Anupama Semwal and **Khan Chand** (2014). Production of Ethanol from ligno-cellulose biomass. **In: Proceedings** of International conference on “New Approaches in Food Security & Value Addition: Technological & Genetic Options” held at Post graduate Deptt of Food Technology, R.B.S. Engg Technical Campus, Bichpuri, Agra (UP) during 17-19, February 2014.

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##### ➤ National

- 1) M. K. Verma\*, M. Bhist, **Khan Chand**, Sachin Kumar and Pankaj Kumar. *Storage of Tomato Seedling Plant Plugs Under Faint Irradiation and Low Temperature*”.



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- 2) Thapaliyal D., Maheshwari A., **Khan Chand**, and Singh A. *Quality Characteristics of Jaggery kept in storage bin under ambient condition*, Presented at National Seminar held at G.B.P.U.A. &T. Pantnagar during 27-1, March 09.
- 3) V.C.Joshi, Varun Kumar, Manjeeta Saini and **Khan Chand**. *Preservation and Packaging of Food Products*. Presented in National Seminar held at G.B.P.U.A. &T. Pantnagar during 27-1, March 09.
- 4) Sanjay Kumar, Anupama Singh, N.C.Shahi and **Khan Chand** (2014). Beer production from finger millet and barley using optimized substrate ratio. In: Proceedings of all India Seminar on “Emerging Technology for sustainable resource management” organized by The Institution of Engineers (India) College of Technology, GBPUAT, Pantnagar during March 13-14, 2014.

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- 1) S. S. Mehata, **Khan Chand**, R. K. Pandey and N. C. Shahi. *Determination of physical characteristics of jatropha curcas l. (Ratanjot)*, International conference at IFCON Mysore, Karnataka from 15 to 19 December, 2008.
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### ❖ **FOLDER, LAB MANUALS, POPULAR ARTICLES, PAMPHLET, STATUS PAPERS, PROJECT REPORTS**

#### ➤ **Folders**

- 1) Folder developed on "ioZrh; {ks=ksa esa xqM+ dk IQy Hk.Mkj.k\*\* PHT/2/2008  
Compiled and edited by **Er Khan Chand** and Dr A. Singh.
- 2) Folder developed "HkksT; inkFkksZa esa vifeJ.k% lacaf/kr tkudkj ,oa ijh{k.k ds rjhds " PHT/3/2008 Compiled and edited by Dr A. Singh, Er H.P Pandey, Er UC Lohani and **Er Khan Chand**.
- 3) Folder developed "**vke ds mRikn**" IFST/01/2015 Compiled and edited by Dr Surabhi Sharma, **Er. Khan Chand** and S. B. Bhardwaj.
- 4) Folder developed "**vke ds mRikn**" IFST/01/2015 Compiled and edited by Dr Surabhi Sharma, **Er. Khan Chand** and S.B. Bhardwaj.
- 5) Folder Developed "Integrated Potato Peeler Cum Slicer" PHTM/01/2019 compiled and edited by **Dr Khan Chand, Dr. N.C. Shahi, U.C.Lohani and Arshi Siddiqui**

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- 2). Singh A., Pandey H., Lohani U.C and **Khan Chand**. (2010). Agro Processing Complexes: Creating Opportunities for Income Generation. *Indian Farmer Digest*, Vol 43 (6):33-35. [No: UA/NTL-03/05/2009-2011] ISSN: 0537-1589
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- 5). Richa Rishi, Pandey J. P. and **Khan Chand** (2015). Rice and its Waste can become a Boon to the Indian Farmers. *Indian Farmers Digest*, 48(3, March):13-14. [No: UA/NTL-10/2015-2017]; ISSN: 0537-1589
- 6). **Khan Chand** and Singh Anupama (2016). Role of different reagents used in bakery products. Food Beverage News. A Saffron Media Publication, Navi Mumbai, Vol. 9, (December, Issue 1): 25. www.fnbnews.com RNINo. MAHENG/2018/24248
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- 17). Sumit Kumar and **Khan Chand (2021)**. Market Trend in Food Industry. Food and Drink Industry Magazine in Processing Industry (IFTI), 2(4 May):28-30.
- 18). Dhiraj Kumar Yadav and **Khan Chand (2021)**. Challenges in Street Foods: Food Safety and Consumer Protection. Agriculture & Food: e-Newsletter, 3(11 Nov):127-128. ISSN: 2581 – 8317. URL: www.agrifoodmagazine.co.in
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- 1) Annual Report on AICRP on PHT, 2008 presented at Annual workshop, Bangalore
- 2) Annual Report on AICRP on PHT, 2010 presented at Annual workshop, CIAE, Bhopal

❖ **Book : E-Book**

- (1) **Khan Chand**, R. K. Pandey and N.C. Shahi. (2013). Development of Malta powder using vacuum foam mat drying. LAP LAMBERT Academic Publishing, Saarbrücken, Germany, pp-128.
- (2) Sanjay Kumar, **Khan Chand**, Deepika Kohli and Ritesh Mishra (2017). Practical Approaches in Food Science and Technology. (1<sup>st</sup> ed.) Renu Publishers New Delhi, ISBN 978-93-85502-31-6. 1-114p.

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1. Shiv Shanker Verma, Anupama Singh, N. C. Shahi, T. P. Singh and **Khan Chand (Jan, 2015)** Finger Millet Dehuller-cum Pearler, IPMC/GPB/365, dated 29/1/2015, M.D. NRDC, 20-22 Zamroodpur Community Centre, Kailash Colony Extn, New Delhi-48.
2. Leela Chauhan, P.K.Omre, T.P.Singh, **Khan Chand** and Anil Kumar (Dec, 2020). A Process of Development of Novel Packaging Material using pine

needed and uses thereof. IPMC/946, Application No.202011053751 dated 10.12.2020.

3. Sumit Kumar, **Khan Chand**, U.C.Lohani, N.C.Shahi and Anupama Singh (**Dec, 2020**). Edible Coating Machine. IPMC/950, application No. 202011054125 dated 12.12.2020 (published in 2022).
4. **Khan Chand**, Gurupreet Singh, Asfaq and Palmai Gaibimei (**2023**). Pedal Operated Dehuller for Black Soybean. Application No:6315431 IPO office UK granted by UK (Filed accepted)

➤ **National Patent Published (02)**

1. Sumit Kumar, **Khan Chand**, U.C.Lohani, N.C.Shahi and Anupama Singh (**Dec, 2020**). Edible Coating Machine. IPMC/950, application No. 202011054125 dated 12.12.2020 (published in 2022).
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➤ **Awarded International Patent (01)**

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2. **Khan Chand**, Gurupreet Singh, Asfaq and Palmai Gaibimei (**2023**). Pedal Operated Dehuller for Black Soybean. Application No:6315431 IPO office UK granted by UK (Filed accepted)

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1. Arshi Siddiqui and **Khan Chand (2022)**. Enhancement of Shelf Life of Food using Active Packaging Technologies” in ‘Innovative Approaches for Sustainable Development, Theories and Practices in Agriculture (ebook)’ published by the

Springer Nature; Gewerbestrasse 11, 6330 Cham, Switzerland, p133. **ISBN:** 978-3-030-90548-4, <https://doi.org/10.1007/978-3-030-90549-1>

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