



DR. BARINDERJIT SINGH

OFFICE ADDRESS

Assistant Professor (Food Technology)
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HIGHLIGHTS OF SKILL, EXPERIENCE AND QUALIFICATION

- Ph. D in Food Technology, M. Tech in Food Engineering & Technology and B. Tech in Food Technology
- MBA in Operations Management
- Certified Lead auditor for ISO-9000 Series & HACCP and Certified Internal Auditor for ISO-22000 series.
- 15+ years of academic experience in teaching Engineering & Management courses.
- 4 years' work experience in Canned, Glass Jars & Frozen Food Industries.
- Over 100 scientific papers in different national/international journals and conferences in Food Science/Technology/Engineering/Management, along with 26 Book chapters and 17 Books
- Patent granted: 16

EDUCATIONAL QUALIFICATION

- Executive Post Graduate Certification In Data Science and AI by iHub, IIT Roorkee and Intellipaat, India (Pursuing: 2024-25)
- French language course-Level I (2022), I. K. Gujral Punjab Technical University, Kapurthala, Punjab, India.
- PhD - Food Technology (2017), Guru Nanak Dev University, Amritsar, Punjab, India. (CGPA 10/10).
- M.Tech. - Food Engineering & Technology (2009), Sant Longowal Institute of Engg. and Technology (Deemed-to-be-University), Longowal, Punjab, India. (CGPA 10/10).
- PG Diploma - Dairy Technology (2009), Annamalai University, Chidambaram, Tamil Nadu (Distance education), India.
- MBA in Operations Management (2006), Punjab Technical University, Jalandhar (Distance education), Punjab, India..
- B. Tech - Food Technology with distinction (2003), Guru Nanak Dev University, Amritsar, Punjab, India..
- Diploma in Export Management (2003), Indian Institute of Export Management, Bengaluru, Karnataka, India (Correspondence).
- Advance Diploma in French (2003), Guru Nanak Dev University, Amritsar, Punjab, India. (Part-Time).
- Diploma in French (2002), Guru Nanak Dev University, Amritsar, Punjab, India. (Part-Time).
- Certificate in French (2001), Guru Nanak Dev University, Amritsar, Punjab, India. (Part-Time).

ACADEMIC EXPERIENCE

Sr. No.	Organization	Designation	Period
1.	I.K.G. Punjab Technical University, Kapurthala, Punjab, India	Assistant Professor, Department of Food Science and Technology	March 9, 2011 to Present
2.	Sant Longowal Institute of Engineering and Technology, SLIET (deemed-to-be-university), Longowal, Punjab, India	Assistant Professor (Contractual), Department of Food Engg. And Technology	August 2, 2010 to March 8, 2011
3.	Jaipur National University, Jagatpura, Jaipur, Rajasthan, India	Lecturer, Department of Food Technology	September 16, 2009 to July 31, 2010

4.	Institute of Computer Services (Authorized Distance Education Learning Center, PTU), Punjab, India	Part-Time Senior Faculty Member (Management)	October 1, 2006 to July 30, 2007
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INDUSTRIAL EXPERIENCE

Sr. No.	Organization	Designation	Period
1.	Agro Dutch Industries Limited, Punjab, India	Quality Assurance Manager	January 1, 2006 to July 15, 2007
2.	Premier Mushroom Farm (Unit of Premier Explosive Group), Secundrabad, India	Deputy Manager of R & D	July 29, 2005 to December 31, 2005
3.	Agro Dutch Industries Limited, Punjab, India	Quality Assurance/ Control Manager	June 16, 2003 to June 25, 2005

AUDITOR, LEAD AUDITOR & OTHER FOOD-RELATED COURSES

- Attended Awareness Programmes on Food Safety, Standards & Quality organized by QCI, October 2008.
- Lead Auditor course for ISO 9000:2000 Series from CII, April, 2007.
- Lead Auditor course for HACCP from SGS, April, 2007.
- Certificate Course in HACCP Awareness from BVQI, January, 2005.
- Certificate Programs of HACCP, GMP, Can Inspection, Plant Hygiene & Sanitation, Retort Operation organized by Daniel Brookes, owner of I.F.T., Thailand, March, 2004.

National Exam

1. Successfully passed an online LaTeX exam on April 11, 2020, conducted remotely from IIT Bombay under Spoken Tutorial Project funded by National Mission on Education through ICT, MHRD, Govt of India in collaboration with Sri Sai Group of Institutes, India.

2 Successfully qualified ASRB-ICAR National Eligibility test – 2009

RESEARCH AREA

- Valorization of food waste
- Development of functional foods and nano-emulsion
- Diversity in bioactive compounds among different pulses, cereals, fruits and vegetables.
- Optimization of extraction conditions for polyphenols extraction from different biomaterials using response surface methodology.

- Impact of advertisement on food eating habits of consumers
- AI and machine learning in food supply chain and business management
- Biofortification of nutrients among different cereals and pulses.

THESIS SUPERVISED

Program Level	Supervised	Supervising	Detail in Annexure
Ph.D.	Nil	3	A
Postgraduate (M.Tech./M.Sc.)	38	7	B

PUBLICATIONS IN INTERNATIONAL/NATIONAL JOURNALS/BOOKS/CHAPTERS

	No. of Publication	Detail in Annexure
Publications In International/National Journals	46	C
Edited Books	7	D
Authored Books	10	D
Translate Books	01	D
Book Chapters	26	E

PRESENTATION IN DIFFERENT EVENTS

Type of Presentation	No. of Presentation	Detail in Annexure
Invited talk	14	F
Oral Presentation in National and International Conference	47	F
Poster Presentation in National and International Conference	34	F

Professional Development Programs**(Faculty Development Programs, Orientation Program, Refresher Course, Short Term Course, Workshop, Symposium, Seminar, Webinar, Conference)**

Professional Development Programs	No. of Program Attended	Detail in Annexure
Faculty Development Program	35	G
Short Term Program/Training	45	H
Workshop	21	I
General Orientation Course (GOC)	01	J
Refresher Course	02	J
Webinar/Seminar/Symposium	65	K
Quiz Participation	02	K
Conference Attended (International/National)	11	L

EVENT ORGANIZED

Type of event	Event name	Organized at	Date (from-to)
Two days Training Program(Two days)	Hands on training on HPLC & GC Instrument	I.K.G.Punjab Technical University, Kapurthala, India, in collaboration with AGILENT	15-16 April 2019
Training for Trainer (One day)	Basic level - catering	I.K.G.Punjab Technical University, Kapurthala, India, in collaboration with FSATO and FoSTaC, Food Safety Standard Authority of India,	March 12, 2019
Symposium (One day)	Food Safety Requirements for Food Industry	I.K.G.Punjab Technical University,	Nov. 01, 2018
FDP (Seven days)	Research Methods for Data Analysis for Engineers and Researchers	I.K.G.Punjab Technical University,	April 22-28, 2017

Patent Published/Granted

Patent	No. of Presentation	Detail in Annexure
Patent Granted	16	M

ABSTRACT PUBLISHED IN NATIONAL & INTERNATIONAL CONFERENCES

- Barinderjit Singh, Narpinder Singh (2019). Effect of Processing Methods on Polyphenolic Compounds Among Different *Vigna* Species. 22nd Punjab Science Congress to be held on February 7-9, 2019 at DAVIET, Jalandhar, Punjab, India (Oral)
- Abhishek Bhargav*, Barinderjit Singh (2019). Nutritional And Antioxidant Properties Of Plum. 22nd Punjab Science Congress to be held on February 7-9, 2019 at DAVIET, Jalandhar, Punjab, India (Poster)
- Arshdeep Kaur, Barinderjit Singh (2019). Proximate, amino acid and carotenoids analysis of Jackfruit. 22nd Punjab Science Congress to be held on February 7-9, 2019 at DAVIET, Jalandhar, Punjab, India (Poster)

AWARD RECEIVED

Best Poster/Oral Presentation Award

- Manpreet Kaur*, Barinderjit Singh, Amy Marsh (2021). Food properties of Sarda and Bobby muskmelon and effect of processing on the nutritional properties, polyphenols and antioxidant activity of Muskmelon (*Cucumis melo*). The Annual International Conference on Sustainable Agriculture: Negotiating Tradition and Modernity was held on August 12-14, 2021 by the Centre for Research, Maitreyi College, University of Delhi, India.
- Manpreet Kaur*, Amy Marsh, Barinderjit Singh (2021). Effect of processing on the physicochemical and functional properties of Muskmelon (*Cucumis melo*). International Conference on Sustainable Approaches in Food Engineering and Technology (SAFETy-2021). June 24-25, 2021 by University of Georgia, Tezpur University and AFSTI Tezpur chapter, Tezpur, Assam, India.
- Barinderjit Singh*, Reetu, Manpreet Kaur (2020). Polyphenolic compounds, antioxidant activity and in vitro inhibitory potential against key enzymes relevant for hyperglycemia of Solanum nigrum fruit. Two days online “World Summit on Medical Sciences, Pharmaceutical Sciences & Nursing Sciences Research 2020” (WOMPAN 2020) held on May 30-31, 2020 by Eudoxia Research Centre, India.
- Jasmin Kaur Cheema*, Barinderjit Singh (2019). Proximate, Fatty acid and Anthocyanin Analysis of Kokum (*Garcinia Indica*). A Multi-track National Conference- SLIETCON-2019 (Track I: “New Horizons in Food Processing Technology and Nutrition-NHFPTN-2019”) held on March 1-2, 2019 at NITTTR, Chandigarh by SLIET, Longowal, Sangrur.

- Abhishek Chaudhary, Barinderjit Singh, Aayush Wadhwa* (2018). Diversity of polyphenols in the different fractions of Kusum fruit. “Emerging and Sustainable Technologies in Food Processing (ESTFP- 2018)” held on March 15-16, 2018, SLIET, Longowal, Sangrur.
- Barinderjit Singh*, Narpinder Singh (2016). Optimization of Ultrasound-Assisted Extraction of Polyphenols from black gram and their Distribution in Different Milling Fractions. “Food Processing for Sustainable Agriculture & Industry (ICFOST XXV), 10-12 November 2016, Guru Nanak Dev University, Amritsar and AFSTI in association with CFTRI and DRDO, India.
- Charu Goel*, Barinderjit Singh, Gaurav Bhargava (2016). Ultrasound-assisted extraction of polyphenols from apple and their distribution in peel and pulp. “Food Processing for Sustainable Agriculture & Industry (ICFOST XXV), 10-12 November 2016, Guru Nanak Dev University, Amritsar and AFSTI in association with CFTRI and DRDO, India.

Young scientist award

- Young Scientist Award 2021, By International Institute of Organized Research (I2OR), Greater Mohali, Punjab

Academic Excellence award

- IRSD Preeminent Academic Excellence award 2022, during 8th International Conference on Interdisciplinary Research for Sustainable Development which is organized by Green ThinkerZ Society in Academic association with Centre for Modern Construction, Western Sydney University, Australia; Elsevier’s Mendeley; IIT Bombay Spoken Tutorial, Wakelet, Flipgrid, The Intelligent Indian and I2OR, Punjab

TRAVEL GRANT

- Speaker travel grant (\$ 3375) for delivering lecture (Emerging Applications of AI and Machine Learning in Food Safety) at the International Association for Food Protection’s Annual Meeting (IAFP 2023) which is to be held at Toronto, Canada from July 15, 2023, to July 19, 2023.
- Speaker travel grant (\$ 2500) for delivering lecture (The Role of Machine Learning-Driven Framework in the Foodborne Disease Surveillance System) at the International Association for Food Protection’s Annual Meeting (IAFP 2024) which is to be held at Long Beach Convention Center, Long Beach, California, USA during July 14–17, 2024.

CONSULTANCY SERVICES

- The consultancy was given to the Environmental Management Consultant – E.C.Engineers, Jaipur, for documentation, implementation, and training of ISO 9001:2008 in 2010.

EDITORIAL MEMBERSHIPS OF JOURNALS

- Member of Editorial Board of "**International Engineering Journal For Research and Development**" E-ISSN no.: 2349-0721, Fast Track Publications, India (May 2020 to till date).

Research Council Memberships of National institutes or universities

- Global Vice President in 2021, International Council of Applied Science Research (ICASR), International Centre for Research and Innovation, Eudoxia Research Centre, India.
- A spokesman in 2021, World Agriculture Research Council (WARC), The International Research Council of Eudoxia, Eudoxia Research Centre, India.
- Research Coordinator- Food Science and Technology Stream, Department of Research and Development, I.K.G. Punjab Technical University, Kapurthala.

PROFESSIONAL MEMBERSHIP

- Lifetime Member of Punjab Science Congress.
- Lifetime Member of International Society for Research and Development.
- Lifetime Member of Institute for Engineering Research and Publication (2020-2022)
- Regular Member of International Association for Food Protection (ID 66488, 2023-2024)
- Active Member of The International Society for Nutraceuticals and Functional Foods (2012-13).
- Professional member of European Nutraceutical Association Foods (2012-13).

BOARD OF STUDIES MEMBERSHIP

- Member of Board of Studies (Food Technology) for Department of Food Technology, Khalsa College, Amritsar, 2016 to till date.
- Member of Board of Studies (Food Technology) for affiliated colleges of I.K.G. Punjab Technical University, 2011 to till date.
- Member of Board of Studies (Food Technology) for Main Campus I.K.G. Punjab Technical University, 2012 to till date.
- Member of Board of Studies (Clinical Research) for Main Campus I.K.G. Punjab Technical University, 2019 to 2021.
- Member of Board of Studies (Hotel Management) for affiliated colleges as well as Distance Education Programme of I.K.G. Punjab Technical University, 2014 to 2017
- Member of Board of Studies (Agriculture Sciences) for affiliated colleges of I.K.G. Punjab Technical University, 2014 to 2017.

CONTRIBUTION TO DISTANCE EDUCATION

- Stream and course Coordinator of post-graduation and graduation courses of
 - Hotel Management & Catering Technology (Dec. 2013 to Feb. 2015)

- Airlines, Tourism & Hospitality Management (Dec. 2013 to Feb. 2015)

PERSONAL DETAILS

Date of Birth : March 12, 1981

Nationality : Indian

Languages known : English, French, Hindi, Punjabi

Hobbies : Reading Books/Journals

Place: Kapurthala, India


(Dr. Barinderjit Singh)

Annexure A

Ph.D. Thesis Supervised/Supervising

S.no.	Name of Candidate	Title of thesis/dissertation	Supervisor/ Co-Supervisor	Year of Completed
1	Abhishek Sharma (Registration no. 2124001)	Diversity of polyphenolic compounds among different parts of Kainth Fruit	Supervisor	Pursuing (Registered in 2021)
2	Sahil Chaudhary (Registration no. 2124003)	Valorization of grapefruit waste through innovative technologies in the development of novel edible coating.	Supervisor	Pursuing (Registered in 2021)
3	Simple Sharma (Registration no. 2124002)	Valorization of pomelo waste through innovative technologies in the development of novel edible coating.	Supervisor	Pursuing (Registered in 2021)

Annexure B

Postgraduate Thesis Supervised/Supervising

Year	Name of Candidate	Name of course	Title of thesis/dissertation	Supervisor
2014	Niti Sharma	Master of Technology in Food Technology (Nutrigenomics)	Bioactive components in raw and different processed products of an underutilized legume <i>Macrotyloma uniflorum</i> and their effects on type II diabetes	Yes
2015	Menka Saini	Master of Technology in Food Technology (Nutrigenomics)	Bioactive components (Volatile and non-volatile) in <i>Quisqualis indica</i> and preparation of functional beverage	Yes
2015	Manpreet Saini	Master of Technology in Food Technology (Nutrigenomics)	Extraction of bioactive components and preparation of jam from <i>Solanum nigrum</i> and their effects on type II diabetes	Yes
2015	Sanjiv Kumar	Master of Technology in Food Technology (Nutrigenomics)	Bioactive compounds in raw and dehydrated product of blue green algae	Co-Supervisor
2018	Abhishek Chaudhary	Master of Technology in Food Technology (Nutrigenomics)	Diversity of polyphenolic compounds among different parts of Kusum fruit	Yes
2018	Sonia Mahajan	Master of Technology in Food Technology (Nutrigenomics)	Diversity of polyphenolic compounds among different legumes	Yes
2019	Nikita Dixit	Master of Science and Food Technology	Optimization of extraction conditions for bioactive components from Maize	Yes
2019	Mandeep Kaur	Master of Science in Food Technology	Effect of dehydration techniques on the proximate composition, iron content, bioactive and functional properties of different parts of water chestnut	Yes
2019	Ayush Wadhwa	Master of Science in Food Technology	Iron biofortification of soaked and germinated sorghum: Effect on proximate composition, bioactive and functional properties	Yes

2019	Samridhi Mandeel	Master of Science in Food Technology	Iron Biofortification of Maize with Soaking and Germination: Effect on Reducing Sugar and Polyphenolic Compounds	Yes
2020	Manpreet Kaur	Master of Technology in Food Technology	Engineering properties of major legumes	Yes
2020	Amy Masih	Master of Technology in Food Technology	Engineering properties of different beans	Yes
2020	Vani Ramachandran	Master of Technology in Food Technology	Methodology development of combined beetroot and kinnow wine production	Yes
2020	Monika Thakur	Master of Technology in Food Technology	Development of black rice wine with improved nutritional and organoleptic traits	Yes
2021	Jasmin Kaur Cheema	Master of Science in Food Technology	Methodology development for noodle making from kidney beans	Yes
2021	Abhishek Sharma	Master of Technology in Food Technology	Study on different engineering properties of Kainth fruit	Yes
2021	Suraj Prabha	Master of Science in Food Technology	Engineering properties and drying behaviour of different varieties of carrot (<i>Daucus carota</i>)	Yes
2021	Abhishek Bhargav	Master of Science in Food Technology	Methodology development of muffins with bioactive components	Yes
2021	Shyamali Vidya	Master of Technology in Food Technology	Methodology development for preparation of biodegradable film from rice grist	Yes
2021	Mukul Zade	Master of Technology in Food Technology	Lemon pickle Business Plan	Yes
2021	Dakshan Kumar N	Master of Technology in Food Technology	Development of jam from sapota and guava fruits – health benefits	Yes

2021	Manpreet Kaur	Master of Technology in Food Technology	Effect of dehydration on food properties of muskmelon (<i>Cucumis melo</i>)	Yes
2022	Amy Masih	Master of Technology in Food Technology	Effect of dehydration on food properties of watermelon (<i>Citrullus lanatus</i>)	Yes
2022	Abhishek Pandey	Master of Science in Food Technology	Effect of different extraction conditions on the extraction of polyphenols from black rice (<i>Oryza sativa</i> L.)	Yes
2022	Drishti Gupta	Master of Science in Food Technology	Effect of different extraction conditions on the polyphenolic content isolated from kidney beans (<i>Phaseolus vulgaris</i>) seed	Yes
2022	Pratibha Sharma	Master of Science in Food Technology	Preparation and evaluation of wheat chapati fortified with germinated chickpea flour	Yes
2022	Dakshan Kumar N	Master of Technology in Food Technology	Comparative study of different dehydrated ginger-based formulations for treating thyroid dysfunction	Yes
2023	Ravi Kumar Sah	Master of Science in Food Technology	Comparative study of food properties of Kinnow Mandarin (<i>Citrus reticulata</i>) and Murcott Mandarin (<i>Citrus sinensis</i>)	Yes
2023	Deepika Kumari	Master of Science in Food Technology	Effect of dehydration on nutritional and polyphenolic content of citron	Yes
2023	Shyamali Vidya	Master of Technology in Food Technology	Effect of darkness and light on germination of black gram	Yes
2023	Genish Singh	Master of Science in Food Technology	Preparation and evaluation of wheat chapati fortified with germinated kidney bean flour	Yes
2023	Kiranbeer Kaur	Master of Science in Food Technology	Extraction, analysis, and application of carotenoid and polyphenols from Kinnow peel	Yes
2023	Priyanka	Master of Science in Food Technology	Isolation and characterization of carotenoids pigments of murcott mandarin (<i>Citrus reticulata x sinensis</i>) peel	Yes

2024	Alka Thakur	Master of Technology	Science	in	Food	Extraction and analysis of carotenoid and polyphenols in three different varieties of grapefruit peel (<i>Citrus paradisi</i>)	Yes
2024	Laishram Bikramjit Singh	Master of Technology	Science	in	Food	Extraction and analysis of carotenoid and polyphenols of three varieties of pomelo peel (<i>Citrus maxima</i>)	Yes
2024	Amolika Gautam	Master of Technology	Science	in	Food	Comprehensive study on haritaki: engineering properties, optimization of ultrasoundassisted polyphenol extraction, metal detection and development of antioxidantrich digestion booster candy	Yes
2024	Nitika Saini	Master of Technology	Science	in	Food	Optimization of ultrasound assisted extraction of polyphenols from kinnow peel using response surface methodology and its application in pasta development	Yes
2024	Sunish Sood	Master of Technology	Science	in	Food	Isolation and analysis of carotenoids, polyphenols and antioxidant properties of citron peel (<i>Citrus Medica</i>)	Yes

Annexure C

Publications (International/National Journals)

Publication year	Authors of the article	Title of paper	Journal Name	Vol. no. (Issue no.): Page no.	Impact factor/ Scopus/UGC	DOI no.	ISSN/eissn	Link
2024	Sahil Chaudhary, Barinderjit Singh* , Yashi Srivastava, Tanjeet Singh Chahal	Grapefruit albedo-incorporated pasta: effect on the phytochemical, functional, textural, cooking and sensorial properties of semolina pasta	Journal of Food Measurement and Characterization	Vol 18, pp 8530–8539	2.9/ Scopus-indexed	10.1007/s11694-024-02821-2	eISSN: 2193-4134	https://link.springer.com/article/10.1007/s11694-024-02821-2
2024	Sahil Chaudhary; Barinderjit Singh ; Tanjeet Singh Chahal; Yashi Srivastava	Functionality of Semolina Pasta Supplemented with Grapefruit Flavored Byproduct: Effect on Phytochemical, Functional, Textural, Cooking, and Sensorial Quality	Recent Advances in Food, Nutrition & Agriculture	Vol 16	Scopus-indexed	10.2174/012772574X330847240911092022	eISSN:2772-5758	https://www.eurekaselect.com/article/144461
2024	Sahil Chaudhary; Barinderjit Singh	From Bin to Benefit: Sustainable Valorization of Grapefruit (Citrus paradisi) Byproducts Towards the Circular Economy	Current Food Science and Technology Reports	Vol 2, pp 271–296		10.1007/s43555-024-00033-9	eISSN: 2662-8473	https://link.springer.com/article/10.1007/s43555-024-00033-9
2024	Sahil Chaudhary; Barinderjit Singh	Grapefruit peel waste: unlocking the potential for industrial applications in the circular economy	Food Science and Biotechnology	Online	2.4/ Scopus-indexed	10.1007/s10068-024-01773-z	eISSN: 2092-6456	https://link.springer.com/article/10.1007/s10068-024-01773-z

2024	Simple Sharma*, Barinderjit Singh, Gurwinder Kaur, Yashi Srivastava and Rubrinder Singh Sandhu	Nutritional, Bioactive, and Health Potential of Pomelo (Citrus maxima): An Exotic Underutilized Fruit	Current Research in Nutrition and Food Science	Vol 12(2)	0.9/ Scopus-indexed	10.12944/C RNFSJ.12.2. 35	eISSN: 2322-0007	https://www.foodandnutritionjournal.org/volume12number2/nutritional-bioactive-and-health-potential-of-pomelo-citrus-maxima-an-exotic-underutilized-fruit/
2024	Simple Sharma*, Barinderjit Singh, Yashi Srivastava	Evaluation of engineering, physiochemical and nutritional properties of three different varieties of pomelo fruit	Journal of Horticulture and Postharvest Research	pp 67-88	Scopus-indexed	10.22077/jhpr.2024.7757.1388	eISSN: 2588-6169	https://jhpr.birjand.ac.ir/article_3126.html
2024	Simple Sharma*, Barinderjit Singh, Yashi Srivastava	Production and Characterization of Pomelo Albedo Powder Based Pasta: Physicochemical, Functional, Textural and Sensorial Attributes	Recent Advances in Food, Nutrition & Agriculture	Vol 16	Scopus-indexed	10.2174/012772574X336448241016162401	eISSN: 2772-5758	https://www.eurekaselect.com/article/144810
2024	Sahil Chaudhary, Barinderjit Singh	Pineapple by-products utilization: Progress towards the circular economy	Food and Humanity	Online publish		10.1016/j.foohum.2024.100243	eISSN: 2949-8244	https://www.sciencedirect.com/science/article/pii/S2949824424000181
2024	Sahil Chaudhary, Satish Kumar, Vikas Kumar, Barinderjit Singh, Atul Dhiman	Irradiation: A tool for the sustainability of fruit and vegetable supply chain-Advancements and future trends	Radiation Physics and Chemistry	Vol 217	2.8	10.1016/j.radphyschem.2024.111511	eISSN: 1879-0895	https://www.sciencedirect.com/science/article/abs/pii/S0969806X2400033

2023	Kirubakaran.N, Umashankar M.S., Saumya Surekha, Dr Abdul Rahman Mohammed ALAnsari, Barinderjit Singh , Yashi Srivastava	A comprehensive review on various Novel Drug Delivery Systems and their challenges in designing of Herbal drug Formulations	European chemical bulletin	Volume -12, Special Issue-6 (2023)		10.31838/ec b/2023.12.si 6.123	eISSN: 2063- 5346	European Chemical Bulletin (eurchembull.com)
2023	Mohanasundaram, Sugumar; Singh, Barinderjit; Suradkar, Nitin Govindprabh; Venkatesa Prabhu S.; Chinnasamy, Gomadurai Goel, Mukesh; Khaled, Jamal M.	Extraction of pectin from Ethiopian prickly pear fruit peel and its potency for preparing of cellulose- reinforced biofilm.	Biomass Conversion and Biorefinery	Published online. In press Page no. 1-15	3.5	10.1007/s13 399-023- 04996-y	Electronic ISSN 2190-6823 Print ISSN 2190-6815	https://link.springer.co m/article/10.1007/s133 99-023-04996-y
2023	Rohilla, Shubham; Jaiswal, Akriti; Singh, Barinderjit; Mahanta, Charu Lata	Ultrasound-assisted extraction of phytochemicals from <i>Eryngium foetidum</i> leaves using response surface methodology.	Biomass Conversion and Biorefinery	Published online. In press Page no. 1-8	3.5	10.1007/s13 399-023- 04784-8	Electronic ISSN 2190-6823 Print ISSN 2190-6815	https://link.springer.co m/article/10.1007/s133 99-023-04784-8
2023	Yashi Srivastava; Barinderjit Singh; Brahmeet Kaur; Mohammed	Kinetic study of thermal degradation of flaxseed oil and moringa oil blends with physico- chemical, oxidative stability index (OSI) and shelf-life prediction	Journal of Food Science and Technology	Published online. In press Page no. 1-13	2.6	10.1007/s13 197-023- 05868-z	Electronic ISSN 0975-8402 Print ISSN 0022-1155	https://link.springer.co m/article/10.1007/s131 97-023-05868-z

Ubaid; Anil
Dutt Semwal

2023	Nand Kumar, Maksud Hasan Shah, Shreya Mandal, Shakti Singh, Anam Khan, Barinderjit Singh , Laukesh Singh	Physico-Biochemical Property Evaluation of Certain Promising Varieties of Chickpea (<i>Cicer arietinum</i> L.)	International Journal of Environment and Climate Change,	Volume 13, Issue 7, Page 1-9	NAAS (5.13)	0.9734/IJEC C/2023/v13i 71848	ISSN: 2581-8627	https://journalijecc.com/index.php/IJECC/article/view/1848
2023	Nand Kumar, Shakti Singh, Anam Khan, Bal Veer Singh, Barinderjit Singh , Shikhar Verma, Laukesh Singh,	Evaluation of Amino Acids and Yield Components on Certain Promising Varieties of Chickpea (<i>Cicer arietinum</i> L.)	International Journal of Environment and Climate Change,	Vol. 13, Issue 6, 312-320	NAAS (5.13)		ISSN: 2581-8627	https://journalijecc.com/index.php/IJECC/article/view/1830
2023	Manish Kaushik, Manoj Sathe, S. Shyni Carmel Mary, *Barinderjit Singh , Mohit Tiwari, Ravikiran Prafull Kakade	A Review of Artificial Intelligence Applications in Supply Chain Management	A Journal for New Zealand Herpetology	Vol 12 Issue 01 2023 612-619	Emerging Sources Citation Index		Online ISSN: 1873-7579 Print ISSN: 0925-5273	
2023	Madiajagan M, Nageswara Rao Atyam, Rajeeb Lochan Moharana,	A Harvesting Identification for Smart Hydroponics Agricultural System Design Using Agro Machine Learning Model	2023 International Conference on	1-6	Scopus-indexed	10.1109/RM KMATE592 43.2023.103 69986	Electronic ISBN:979-8-3503-0570-8 ISBN Print:979-8-3503-0571-5	https://ieeexplore.ieee.org/abstract/document/10369986

	Vidhya Gopal, S. Prabhukumar, Barinderjit Singh *		Research Methodologies in Knowledge Management, Artificial Intelligence and Telecommunica tion Engineering (RMKMATE), Chennai, India, , IEEE Xplore				
2023	Dhruvendra Singh Sachan, K. Jaisimha Reddy , Akhilesh Mishra , Avinash Kumar Rai , Anam Khan , Barinderjit Singh and Charu Rajpal	Nanomaterials and diverse agricultural applications: A comprehensive review	International Journal of Environment and Climate Change	Volume 13, Issue 9, Page 131-140	10.9734/IJE CC/2023/v1 3i92215	ISSN: 2581- 8627	https://journalijecc.com /index.php/IJECC/articl e/view/2215
2022	Barinderjit Singh , Yashi Srivastava, Dr. Shekar R, Sanjit Singh,	Artificial intelligence: a quantitative analysis of food supply chain among major ports in India	Journal of east China university of science and	Vol. 65, Issue 3		eISSN: 1006- 3080	http://efaidnbmnnnibpc ajpcgclefindmkaj/https ://hdigdxxb.info/index. php/JE_CUST/article/p df/976.pdf

	Dr. Kavitha Venkatachari		technology					
2022	Tiwari, Shivam; Singh, Barinderjit Singh ; Pachar, Sunita; Bharati, Raveendra Kumar; Cotrina-Aliaga, Juan Carlos; Kumar, Sarvesh	Analysis and Design A framework identifying Crop nutrients Using KNN Approach.	2022 2nd International Conference on Innovative Sustainable Computational Technologies (CISCT), Dehradun, India, IEEE Xplore	pp 1-4	Scopus-indexed	10.1109/CISCT55310.2022.10046541	eISBN:978-1-6654-7416-0 ISBN Print:978-1-6654-7417-7	https://ieeexplore.ieee.org/abstract/document/10046541
2022	Javier Alanya-Arango, Joel Alanya-Beltran, Sathish Kumar Ravichandran, Barinderjit Singh* , Archana Sasi, Durgaprasad Gangodkar	Internet of Things and Machine Learning based Intelligent Irrigation System for Agriculture	5th International Conference on Contemporary Computing and Informatics (IC3I), IEEE Xplore	67-72	Scopus-indexed	10.1109/IC3I56241.2022.10073254	eISBN:979-8-3503-9826-7 ISBN Print:979-8-3503-9827-4	https://ieeexplore.ieee.org/abstract/document/10073254

2022	Venkata Harshavardhan Reddy Dornadula, Shyam Sunder. T, Aparna Pavani. S, Renu Lamba, Barinderjit Singh, Nagabhushanam Tida	Impact of innovative entrepreneurship models in Enhancing stakeholder engagement and business performance	Manager - The British Journal of Administrative Management ISSN - 1746 1278	Volume 58 Special Issue 09 Dec 2022, 21-30	ABDC – Australian Business Deans Council indexed	eISSN: 1746 – 1278	https://tbjam.org/vol58-special-issue-09/
2022	Mohd Shamim, Shaik Rehana Banu, Pawan Deep Singh, Barinderjit Singh, Yashi Srivastava, G S Pradeep Ghantasala	Quality assurance and standards monitoring of higher Education development	Manager - The British Journal of Administrative Management ISSN - 1746 1278	Volume 58 Special Issue 09 Dec 2022, 31-40	ABDC – Australian Business Deans Council indexed	eISSN: 1746 – 1278	https://tbjam.org/vol58-special-issue-09/
2022	Mohammad Irshad Hussain, Lucky Mehta, Barinderjit Singh, Navpreet Kaur, Yashi Srivastava, Pankaj Choudhury	Comparative evaluation and international aspects of practice And higher education policy	Manager - The British Journal of Administrative Management	Volume 58 Special Issue 06 Sep 2022 178-188	ABDC – Australian Business Deans Council indexed	eISSN: 1746 – 1278	https://tbjam.org/vol58-special-issue-06/
2022	Habibulla Palagiri, Shweta Mogre, Rashmi	An investigation on the use of machine learning methods for predicting employee performance	Manager – The British Journal	58 (SI 06, Septemb	ABDC – Australian	eISSN: 1746 – 1278	https://tbjam.org/vol58-special-issue-06/

	Badjatya Rawa, Geetha Manoharan, Barinderjit Singh and Rachana Jaiswal		of Administrative Management (TBJAM) ISSN - 1746 1278	er 2022): 15-22	Business Deans Council indexed			
2022	Y. Saritha Kumari, Aarti Dawra, Rachana Jaiswal, Aijaj Ahmad Raj, Geetha Manoharan And Barinderjit Singh	An evaluation of machine learning techniques and how they affect human resource management and sustainable development	Manager – The British Journal of Administrative Management (TBJAM) ISSN - 1746 1278	58 (SI 06, September 2022): 4-14	ABDC – Australia n Business Deans Council indexed	eISSN: 1746 – 1278	https://tbjam.org/vol58-special-issue-06/	
2022	Barinderjit Singh* , Rashmi S. Deshpande, Mohd. Shaikhul Ashraf, Shaik Vaseem Akram.	Leaf Disease Detection Using Deep Neural Network	2022 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICES), Chennai, India, IEEE Xplore	295-300	Scopus- indexed	10.1109/ICS ES55317.20 22.9914183	eISBN:978-1- 6654-7413-9 ISBN Print :978-1-6654- 7414-6	https://ieeexplore.ieee.org/abstract/document/9914183

2022	Anita Gehlot, Neeru Sidana , Deepali Jawale, Neetu Jain, Bhaskar Pratap Singh and Barinderjit Singh	Technical analysis of crop production prediction using Machine Learning and Deep Learning Algorithms.	2022 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES), Chennai, India, IEEE Xplore	335-339	Scopus-indexed	10.1109/ICS ES55317.2022.9914206	eIJFANS ISBN: 978-1-6654-7413-9 ISBN Print :978-1-6654-7414-6	https://ieeexplore.ieee.org/abstract/document/9914206
2022	Kusuma Praveen Kumar*, Barinderjit Singh* , Malini K V, Arti Ranjan, Shailejkumar D Bonde, Sandeep Rout, Firos A	Iot And Machine Learning Based Effective Plant Disease Classification And Detection For Agricultural Applications	IJFANS International Journal of Food and Nutritional Sciences	Vol.11, Issue 8, 415-423	UGC CARE Listed (Group -I)		ISSN PRINT 2319 1775 Online 2320 7876	https://www.ijfans.org/uploads/paper/a5a8f18227b5f06ea724cbad11605e7f.pdf
2022	Barinderjit Singh* , Deepayan Padhy, Selva Ganapathy M, Yashi Srivastava, N. Lenin Rakesh, Gurwinder Kaur, D R K Saikanth	Combination Of Multispectral And Machine Learning Approach For Identifying Honey Adulteration	IJFANS International Journal of Food and Nutritional Sciences	Vol.11, Sp. Issue 1: 2331-2339	UGC CARE Listed (Group -I)		ISSN PRINT 2319 1775 Online 2320 7876	https://ijfans.org/uploads/paper/0058b4a41974b028334b3bf5125bb07b.pdf

2022	Priyanka Budania, Garvita, Gaurav Lodha, Sonam Bhadauriy, Barinderjit Singh* and Ekta Rao	A comparison of artificial intelligence and robotics effects on business management and economics	World Journal of Management and Economics	15 Special Issue 03	ABDC Australian Business Deans Council indexed	ISSN: 1819-8643 (print) E-ISSN: 1998-1392 (online)	https://wesro.org/volume-15-spi-02/
2022	Rajesh Gupta, T. Milton, K. Suresh Kumar, G Saravana Kumar, Barinderjit Singh And Ajay Kumar Garg	Impact of total quality management approaches in retaining and enhancing customer satisfaction	World Journal of Management and Economics	15 Special Issue 03	ABDC Australian Business Deans Council indexed	ISSN: 1819-8643 (print) E-ISSN: 1998-1392 (online)	https://wesro.org/volume-15-spi-02/
2022	Sudheer Hanumanthakari, Asad Ullah, Aijaj A.Raj, M.Z.M. Nomani, M. Rajya Laxmi and Barinderjit Singh*	The application of machine learning in creating enhanced industry 4.0 for sustainable growth and development	World Journal of Management and Economics	15 Special Issue 03	ABDC Australian Business Deans Council indexed	ISSN: 1819-8643 (print) E-ISSN: 1998-1392 (online)	https://wesro.org/volume-15-spi-02/
2022	Umesh U, P. Rengarajan, Vignesh Karthik S. A, B. Sakthimala, Niraj C. Chaudhari and Barinderjit Singh*	The impact of human resource management in creating enhanced industry 4.0 for sustainable growth and development	World Journal of Management and Economics	15 Special Issue 03	ABDC Australian Business Deans Council indexed	ISSN: 1819-8643 (print) E-ISSN: 1998-1392 (online)	https://wesro.org/volume-15-spi-02/

2022	G. Radha Krishna Murthy, Lalit Goyal, Reema Sharma, Kumar Ratnesh, Dharmendra Yadav and Barinderjit Singh*	The role of information systems (IS) in human resource management and its impact on business performance	World Journal of Management and Economics	15 Special Issue 03	ABDC Australia n Business Deans Council indexed	ISSN: 1819-8643 (print) E-ISSN: 1998-1392 (online)	https://wesro.org/volume-15-spi-02/
2022	M. Shankar, Veena Prasad, Aravindharaman S, Barinderjit Singh* , Shikha Maheshwari, Yashi Srivastava	Analyzing the contribution of digital apps in the food delivery systems	Telematique	21 (1): 2424 – 2429	Emerging Sources Citation Index	ISSN: 1856-4194	https://www.provinciajournal.com/index.php/telematique/article/view/312
2022	Nagendra Prasad Krishnam, K Suresh Kumar, Hashem Ali Almashaqbeh, Professor Yasin Sheikh, Dharamvir, Barinderjit Singh	Application of Conceptual Artificial Intelligence (AI) framework in Human Resource Management	Manager – The British Journal of Administrative Management (TBJAM)	58 (SI 02, May 2022): 63-73	ABDC – Australia n Business Deans Council indexed	ISSN: 1746 – 1278	https://tbjam.org/vol58-special-issue-02/
2022	Gurwinder Kaur, Barinderjit Singh* , Sanjeev Bansal,	Artificial Intelligence (AI) Based Smart Agriculture For Sustainable Development	The Management Accountants	June 2022 pp 54-57	UGC care list	10.33516/maj.v57i6.54-57p ISSN : 09723528	https://icmaj-rnj.in/index.php/maj/article/view/170134

	Anil Kumar Angrish							
2022	Narinder Kaur, Ranbir Singh, Barinderjit Singh*	Television viewing habits of the teenagers and early adulthoods.	Journal of the Oriental Institute	71 1(11) January- March 110-117	UGC care list		ISSN: 0030-5324	Offline journal
2022	Aayushi Jain, Rahul Mehra, Renu Garhwal, Shafiya Rafiq, Seema Sharma, Barinderjit Singh, Shiv Kumar, Krishan Kumar, Naveen Kumar & Harish Kumar	Manufacturing and characterization of whey and stevia-based popsicles enriched with concentrated beetroot juice	Journal of Food Science and Technology	Vol 59 page no. 3591- 3599	3.12	10.1007/s13 197-022- 05364-w	Electronic ISSN 0975-8402 Print ISSN 0022-1155	https://link.springer.com/article/10.1007/s13197-022-05364-w
2020	LaxmiAnanthan arayan, Vikas Kumar, Anil Panghal, Barinderjit Singh, RojiWaghmare, Yogesh Gat and Narinder Kaur	Use of microalgal biomass as a novel functional ingredient for the preparation of cereal-based extrudates: impact of processing on amino acid profiling and colour degradation kinetics,	Brazilian Journal of Pharmaceutical Sciences	56: e18665	Scopus- indexed	10.1590/s21 75- 9790202000 0118665	ISSN online version: 2175- 9790	https://www.scielo.br/j/bjps/a/ZY6mbqSf5nMtPdfPyzzckcH/?lang=en
2019	ShafiyaRafiq, Barinderjit Singh, Yogesh Gat	Effect of different drying techniques on chemical composition, color and antioxidant properties of kinnow (<i>Citrus reticulata</i>) peel	Journal of Food Science and Technology e- ISSN: 0975- 8402	56(5): 2458- 2466	3.12	10.1007/s13 197-019- 03722-9	Electronic ISSN 0975-8402 Print ISSN 0022-1155	https://link.springer.com/article/10.1007/s13197-019-03722-9

2018	Yogesh Gat, Anil Panghal, NavnidhiChhik ara, Poorva Sharma, Vikas Kumar, Barinderjit Singh	Effect of extrusion on thermal, textural and rheological properties of legume-based snack	Journal of Food Science and Technology e-ISSN: 0975- 8402	55(9): 3749- 3756	3.12	10.1007/s13 197-018- 3306-8	Electronic ISSN 0975-8402 Print ISSN 0022-1155	https://link.springer.com/article/10.1007/s13197-018-3306-8
2017	Barinderjit Singh, Narpinder Singh, Sheetal Thakur, Amritpal Kaur	Ultrasound assisted the extraction of polyphenols and their distribution in whole mung bean, hull and cotyledon.	Journal of Food Science and Technology e-ISSN: 0975- 8402	54(4):92 1-932	3.12	10.1007/s13 197-016- 2356-z	Electronic ISSN 0975-8402 Print ISSN 0022-1155	https://link.springer.com/article/10.1007/s13197-016-2356-z
2012	Harish Kumar Sharma, Jaspal Singh, Bhavesh Chand Sarkar, Barinderjit Singh, Monica Premi	Statistical Optimization of Desuggerization Process Parameters of Liquid Whole Egg Using Response Surface Methodology	LWT – Food Science & Technology e-ISSN: 0023- 6438	47(1):20 8-212	6.056	10.1016/j.lw t.2011.08.01 7	Print ISSN: 0023-6438 Online ISSN: 1096-1127	https://www.sciencedirect.com/science/article/pii/S0023643811002921
2012	Barinderjit Singh, H. K.Sharma and B.C. Sarkar	Optimization of the Nutraceuticals from the Wheat Bran using Response Surface Methodology	Journal of Food Science and Technology e-ISSN: 0975- 8402	49(3):29 4-308	3.12	10.1007/s13 197-011- 0276-5	Electronic ISSN 0975-8402 Print ISSN 0022-1155	https://link.springer.com/article/10.1007/s13197-011-0276-5

Annexure D

Book (Edited/ Authored/ Translate/ Proceeding)

Edited book

Publication year	Editor	Title of Book	Publisher	ISBN no.
2024	Lalita Kumar Mohanty, Gaidinglungliu Gonmei, Okenmang Jamoh, Barinderjit Singh , Jay Nath Patel	Sustainable Agriculture in the 21 st Century	ND Global Publication House	9788197-337970
2024	Pundlik Waghmare, Dharmendra Bahadur Singh, Komal Ojha, Akansha Yadav, Barinderjit Singh	Environmental Sustainability and Food Security	ND Global Publication House	9788197-200267
2024	Dr. N.S. Rana, Dr. Bal veer Singh, Dr. Rohit Kumar, Dr. Barinderjit Singh	Handbook of Millets	ND Global Publication House	9788-196-777-04-3
2023	Vidiya C.S., Prasad Patil, Barinderjit Singh , S.S. Bora, Prashun Sachan	Frontier in Food Processing and Preservation	BS Global Publication House	978-81-19651-43-6
2023	Veena Prasad Vemuri, T.Ch. Anil Kumar, Barinderjit Singh , Yashi Srivastava	Emerging Technologies, Perspectives, Trends and Practical Implication of Machine Learning in Higher Education	Booksclinic Publishing	978-93-5823-455-8
2023	Melanie Lourens, Mukesh Kumar Sharma, Kolachina	Artificial Intelligence in Human Resource Management	Iterative International Publishers	978-1-68576-417-3

Srinivas,
Barinderjit Singh

2022 Shalini Sehgal, Smart and Sustainable Springer 978-9-
Barinderjit Singh, Food Technologies Nature 81191-745-
Vasudha Sharma 5

Authored book

Publication year	Author	Title of Book	Publisher	ISBN no.
2024	Vidhya C.S., Divya Kumari, A.M. Rashida Banhu Barinderjit Singh	Principles of Food Science and Nutrition	N D Global Publication House	9788197241857
2023	Atul D Bobdey, Vishnupriya S, P. Reddypriya, Barinderjit Singh	Food Science and Technology	AG Publishing House	978-81-19338- 14-6
2023	Barinderjit Singh, Bhupinder Singh, Rubrinder Singh Sandhu, Yashi Srivastava	Fundamental of Total Quality Management	Book Rivers	978-93-5515- 379-1
2022	M. Radha G.Yamuna L. Dhanalakshmi Barinderjit Singh	Economic Analysis for Business	Scientific International Publishing House (SIPH)	978-93-5625- 062-8
2022	Kaushal Rana, Yasmeen Banu, Piali Biswas, Barinderjit Singh	Management Information Systems	Scientific International Publishing House (SIPH)	978-93-5625- 261-5
2022	Sujay M.J., Harshith N., Veena Prasad Vemuri,	Application of Advertising Management	Book Rivers	978-93-5515- 153-7

Barinderjit Singh

2022	Shubhendu Sheher, Barinderjit Singh, L.B.Muralidhar, S. Umamaheswari	Advertising Management	Book Rivers	978-93-5515-548-1
2022	Mushtaque Ahmad, Rohit Patawa, Barinderjit Singh, Ankit Jain	Statistical Process Control with Six Sigma	Book Rivers	978-93-5515-344-9
2022	Barinderjit Singh, Bhupinder Singh, Reetu Palthania, Yashi Srivastava	Fundamentals of Food, Dairy and Environmental Microbiology	Scientific International Publishing House	978-93-5625-605-7
2022	Bhupinder Singh, Barinderjit Singh, Yashi Srivastava, Edidiong Etim UKPONG	Research Methodology – A Perspective	Book Rivers	978-93-5515-632-7

Translate book in Punjabi

Publication year	Translator	Title of Book/Author/ Class	Publisher	Status
2023	Barinderjit Singh	Biology for Engineers/ . Annamma Odaneth /UG – IIIrd Sem	AICTE	Under Review

Book Proceeding

Publication year	Author	Chapter	Editor	Title of Book	Publisher	ISBN no.
2022	Barinderjit Singh	Optimization of ultrasound assisted extraction conditions	Dr. Hüseyin SENDİR	ISPEC 13th International	ISPEC Publications	978-625-

for polyphenolic
compounds from
Macrotyloma
uniflorum seeds

Conference on
Engineering &
Natural
Sciences

March 19-20,
2022 / Burdur,
Turkey

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Annexure E

Book Chapter

Publication year	Authors as on the Chapter	Title of Chapter	Title of Book/ editor/ publisher	Page no.	ISBN no.
2024	Arti Dhakad, *Barinderjit Singh, Bal veer Singh, Gurwinder Kaur	Harvesting and Post-Harvest Handling Strategies	Fundamentals of Vegetable Science/Dr. Shiwanand Pandey, Mr. Ramesh chand Meena, Dr. Anop Kumari, Dr. P.Thilagam, Dr. S.Srividhya,/ ND Global Publication House	89-113	978-81-967770-6-7
2024	Akriti Jaiswal, Barinderjit Singh, Arvind Kumar Jaiswal, Gurwinder Kaur, Shubham Rohilla	Millet Grain Structure and Nutritional Composition	Handbook of Millets/ Dr. N.S. Rana, Dr. Bal veer Singh, Dr. Rohit Kumar, Dr. Barinderjit Singh/ ND Global Publication House	376-412	9788-196-777-04-3
2024	Preeti Sharma, Barinderjit Singh,*, Gurwinder Kaur, Kiranbeer Kaur, Bhupinder Singh	Engineering Properties of Millets	Handbook of Millets/ Dr. N.S. Rana, Dr. Bal veer Singh, Dr. Rohit Kumar, Dr. Barinderjit Singh/ ND Global Publication House	353-375	9788-196-777-04-3
2024	Yashi Srivastava, Barinderjit Singh*, Twinkle Kesharwani, Gurwinder Kaur, Akriti Jaiswal	Bioactive Compounds of Millets and Health Benefits	Handbook of Millets/ Dr. N.S. Rana, Dr. Bal veer Singh, Dr. Rohit Kumar, Dr. Barinderjit Singh/ ND Global Publication House	336-352	9788-196-777-04-3
2024	Gurwinder Kaur, Barinderjit Singh*, Priyanka, Yashi Srivastava and Nitiya Thakur	Bio-fortification of millets	Handbook of Millets/ Dr. N.S. Rana, Dr. Bal veer Singh, Dr. Rohit Kumar, Dr. Barinderjit Singh/ ND Global Publication House	216-234	9788-196-777-04-3

2024	Khushboo Singh, *Barinderjit Singh, Gurwinder Kaur, Akriti Jaiswal, Shubham Rohilla	Quality standards for millets and their products	Handbook of Millets/ Dr. N.S. Rana, Dr. Bal veer Singh, Dr. Rohit Kumar, Dr. Barinderjit Singh/ ND Global Publication House	17-38	9788-196-777-04-3
2024	Kiranbeer Kaur, Priyanka, Gurwinder Kaur, Barinderjit Singh, Shalini Sehgal & Shalini Trehan	Artificial Intelligence (AI) as a Transitional Tool for Sustainable Food Systems	Sustainable Food Systems (Volume II) SFS: Novel Sustainable Green Technologies, Circular Strategies, Food Safety & Diversity/ Monika Thakur/ Springer Nature	305-328	978-3-031-46046-3
2024	Ashok Kumar Koshariya, P.M. Rameshkumar, P. Balaji, Luigi Pio Leonardo Cavaliere, Venkata Harshavardhan Reddy Dornadula, Barinderjit Singh	Data-Driven Insights for Agricultural Management : Leveraging Industry 4.0 Technologies for Improved Crop Yields and Resource Optimization	Robotics and Automation in Industry 4.0 : Smart Industries and Intelligent Technologies/ Nidhi Sindhwani, Rohit Anand, A. George, Digvijay Pandey/ CRC Press	260-274	9781003317456
2024	K.V. Daya Sagar, K.K. Ramachandran, Purnendu Bikash Acharjee, Pratibha Singh, Harish Satyala, Barinderjit Singh	Data Analytics and ML for Optimized Performance in Industry 4.0	Robotics and Automation in Industry 4.0 : Smart Industries and Intelligent Technologies/ Nidhi Sindhwani, Rohit Anand, A. George, Digvijay Pandey/ CRC Press	275-287	9781003317456
2023	Kiranbeer Kaur, Barinderjit Singh, Gurwinder Kaur, Hardeep Singh	Automation and Robotics in Food Processing	Frontier in Food Processing and Preservation/ Vidiya C.S., Prasad Patil, Barinderjit Singh, S.S. Bora, Prashun Sachan/ BS Global Publication House	220-239	978-81-19651-43-6
2023	Kiranbeer Kaur, Hardeep Singh, Barinderjit	Chemical, Physical and Biological Methods for Food Preservation	Frontier in Food Processing and Preservation/ Vidiya C.S., Prasad Patil, Barinderjit Singh,	240-267	978-81-19651-43-6

	Singh, Gurwinder Kaur,		S.S. Bora, Prashun Sachan/ BS Global Publication House		
2023	P. Asha, Barinderjit Singh	AI and deep learning methods for creating sustainable supply chain management and process	Marketing Management Through Artificial Intelligence for better customer engagement/ P. Malyadri, Bojja Suryanarayana Reddy/ Guptnath Trivedi/ Bluerose Publishers	292-325	978-93-5704-108-9
2023	Kajal Mittal, Barinderjit Singh	A conceptual study in reengineering the human resource tactics to enhance high performance work practices post pandemics crisis	Opportunities and Challenges of Human Resource Management Approaches during COVID-19 Pandemic/ Melanie Lourens, Habibulla Palagiri, T. Milton, K.K. Ramachandran/ Iterative International Publishers	1-17	978-1-68576-400-5
2023	Aryan Das Gupta, Barinderjit Singh	The critical association between different employee engagement methods in enhancing psychological well-being among the employees post Covid 19 for effective sustainability.	Opportunities and Challenges of Human Resource Management Approaches during COVID-19 Pandemic/ Melanie Lourens, Habibulla Palagiri, T. Milton, K.K. Ramachandran/ Iterative International Publishers	172-184	978-1-68576-400-5
2023	Prabin Kumar Bera and Barinderjit Singh	The critical understanding of the applications of machine learning model in creating better product development	Machine learning approaches for better management in competitive environment/ Khaja Mannanuddin, Purnendu Bikash Acharjee, Akash Bag, Sushma Jaiswal/ Blue Rose	269-292	978-93-5668-191-0
2023	Valentino Jobert Barbosa and Barinderjit Singh	Implications of machine learning approaches for achieving productivity and efficiency in enhancing profitability of the business	Machine learning approaches for better management in competitive environment/ Khaja Mannanuddin, Purnendu Bikash Acharjee, Akash Bag, Sushma Jaiswal/ Blue Rose	199-119	978-93-5668-191-0
2023	Venkata HRD and Barinderjit Singh	The role of big data and machine learning benefit to Top management for better business administration	Machine learning approaches for better management in competitive environment/ Khaja Mannanuddin, Purnendu Bikash Acharjee, Akash Bag, Sushma Jaiswal/ Blue Rose	131-152	978-93-5668-191-0

2023	Gioia Arnone and Barinderjit Singh	A comparative analysis of the role of machine learning in making effective decision making	Machine learning approaches for better management in competitive environment/ Khaja Mannanuddin, Purnendu Bikash Acharjee, Akash Bag, Sushma Jaiswal/ Blue Rose	30-55	978-93-5668-191-0
2023	A.Shameem, Barinderjit Singh	The Impact of AI in Understanding the Training Needs of the Employees for Achieving Superior Performance and Output in Modern Business Environment	Impact of Integrated Artificial Intelligence in Human Resource Management Functions/ K K Ramachandran , Anni Arnav, Anupama Chadha, S. H. Abbas /Iterative International Publishers	95-112	978-1-68576-399-2
2022	Ravneet Kaur, Shubhra Shekhar, Sahil Chaudhary, Barinderjit Singh and Kamlesh Prasad	Non-thermal Food Preservation Technologies	Smart and Sustainable Food Technologies/ Shalini Sehgal, Barinderjit Singh, Vasudha Sharma/ Springer Nature	157-195	978-9811917455
2022	Gurwinder Kaur, Barinderjit Singh*, Yashi Srivastava, Manpreet Kaur, Yogesh Gat	Lychee (<i>Lychee Chinensis Sonn.</i>) By-products: Chemistry, Processing	Handbook of Fruit Processing By-Products: Nutritional Composition, Biochemistry, Processing Technology and Utilization/ Khalid Muzaffar/ Taylor and Francis	223-238	978-0-367-72474-0
2022	Barinderjit Singh, Gurwinder Kaur, Reetu, Shafiya Rafiq	Cashew apple by-products: chemistry, processing and utilization	Handbook of Fruit Processing By-Products: Nutritional Composition, Biochemistry, Processing Technology and Utilization/ Khalid Muzaffar/ Taylor and Francis	273-289	978-0-367-72474-0
2022	Priyanka Suthar, Bababode Adesegun Kehinde, Shafiya Rafiq, Nazmin Ansari, Barinderjit Singh, Harish Kumar	Orange byproducts, their processing and utilization	Handbook of Fruit Processing By-Products: Nutritional Composition, Biochemistry, Processing Technology and Utilization/ Khalid Muzaffar/ Taylor and Francis	87-98	978-0-367-72474-0

2021	Barinderjit Singh, Gurwinder Kaur, Reetu	Mung bean: Bioactive compounds and their potential health benefits	Cereals, Pulses, Roots and Tubers: Functionality, Health Benefits, and Applications/ Dr. Sneh Punia, Dr. Anil Kumar Siroha and Dr. Manoj Kumar/ Taylor and Francis	445-456	978-0-367-69250-6
2021	Barinderjit Singh, Reetu, Gurwinder Kaur	Black gram: Bioactive components for human health and their Functions	Cereals, Pulses, Roots and Tubers: Functionality, Health Benefits, and Applications/ Dr. Sneh Punia, Dr. Anil Kumar Siroha and Dr. Manoj Kumar/ Taylor and Francis	373-387	978-0-367-69250-6
2020	Masimba Tapera, Barinderjit Singh and Patrick Ndambiri	Techniques for Preliminary Phytochemical Studies on Plant Materials	Research Trends in Medicinal Plant Sciences (Volume - 7)/ AkiNik Publications	135-150	978-93-90322-09-1

Annexure F

PRESENTATION IN DIFFERENT EVENTS

Invited Talk

Title of talk	Event	Date of talk	Name of organizer
Polyphenols in Food Matrices: Isolation and Characterization Challenges	4 th International Conference on Advances in Biological Research and Environmental Sustainability, Bali	June 21, 2023	Research Floor publisher, Science letter journal and ACTA Botanica Plantae
Traditional and Machine Learning-Based Approaches for the Prediction of Polyphenols in Food Matrices	International Conference on Recent Advances in Nutraceuticals and Functional Foods	May 23, 2023	Graphic Era (Deemed to be University), Dehradun.
Regulations for the Indian Food Industry	One day symposium	May 5, 2022	Department of Food Science and Technology, IKGPTU, Kapurthala
Role of FSSAI in Food Business	Webinar	April 6, 2021	Department of Biotech Engineering and Food Technology, Chandigarh University, Punjab, India.
Regulation of Nutraceuticals and Functional Foods	One Day Seminar	March 17, 2020	Department of Food Science & Technology, Punjab Agriculture University, Punjab, India.
Current Scenario in Food Safety and Standards	One Day Seminar	March 17, 2020	Department of Food Science & Technology, Punjab Agriculture University, Punjab, India.
Food Regulations for the Indian Food Industry	One Day Seminar	October 5, 2019	DAV College, Jalandhar, Punjab, India.
Food Safety Standard for Indian Food Industry	One Day Seminar	March 19, 2019	G.H.G. Khalsa College, Gurusar Sadhar, Ludhiana, Punjab, India.
Challenges for Isolation and Characterization of Polyphenolic Compounds	8th International Food Convection on "IFCON-2018: HASH TAG-Holistic Approaches for Start-ups, Human Resource Training for Agriculture and Food Industry Gemmation."	12-15 December 2018	AFSTI in association with CFTRI and DRDO and supported by the Ministry of Food Processing of India and Food Safety and Standards Authority of India at CFTRI, Mysore, Karnataka, India.
Quality Management System in Food Industry	One Day Seminar	March 20, 2018	G.H.G. Khalsa College, Gurusar Sadhar, Ludhiana, Punjab, India.

Diversity in Polyphenols among different Vigna Species	National Conference on “Food Processing for Sustainable Agriculture & Industry (ICFOST XXV)	10-12 November 2016	Guru Nanak Dev University, Amritsar and AFSTI in association with CFTRI and DRDO at GNDU, Amritsar, Punjab, India.
Quality & Safety Auditing in Food Industry	Faculty/Executives Development Programme on “Modern Analytical Techniques & Certification System in Foods in the Era of Liberalization & Globalization”	June 2008	9-15, Department of Food Engineering & Technology, SLIET (deemed-to-be-university), Longowal, India.
Quality Management System (ISO-9001:2000) – Fundamentals	Faculty/Executives Development Programme on “Modern Analytical Techniques & Certification System in Foods in the Era of Liberalization & Globalization”	June 2008	9-15, Department of Food Engineering & Technology, SLIET (deemed-to-be-university), Longowal, India.
ISO-9001: 2000 Implementation	Faculty/Executives Development Programme on “Modern Analytical Techniques & Certification System in Foods in the Era of Liberalization & Globalization”	June 2008	9-15, Department of Food Engineering & Technology, SLIET (deemed-to-be-university), Longowal, India.

Oral Presentations in National & International Conferences

Authors	Title of paper	Event	Date of event	Name of organizer
Amolika Gautam, Barinderjit Singh	Terminalia Chebula: Bioactive Compounds, Health Benefits and Their Application in Food and Pharmaceutical Industry	International Halich Congress on Multidisciplinary Scientific Research - VII	January 23-25, 2024	International Halich Congress, Istanbul, Turkey
Simple Sharma, Barinderjit Singh	Nutritional profile and bioactive constituents of pomelo fruit	5th International Food, Agriculture and Veterinary Sciences Congress	March 17-19, 2023	Kars, Türkiye organised by Kafkas University and IKSAD Institute
Sahil Chaudhary, Barinderjit Singh	Pasta development with grape fruit peel powder Incorporation	5 th international Black sea modern scientific research congress	Nov 08-10, 2023	Rize, Turkiye
Abhishek Sharma, Barinderjit Singh	Kainth Fruit (Pyrus Pashia): An Underutilized Fruit Seeking Utilization For Food Industry	4th International Cukurova Agriculture and Veterinary Congress	February 27-28, 2023	Adana Turkey
Simple Sharma, Barinderjit Singh	Pomelo (Citrus grandis): an exotic fruit	International Subtropical and Citrus Conference	December 8-9, 2023	Lankaran State University, Azerbaijan
Simple Sharma, Barinderjit Singh	Waste valorization of pomelo fruit	2 nd International congress on food researches	Oct 16-18, 2023	Sivas, Turkiye and Sivas Cumhuriyet university, Food studied and application and research center and IKSAD Institute
Simple Sharma, Barinderjit Singh	Sustainable valorization strategies for Grapefruit (Citrus* Paradisdi) Peels	2 nd International congress on food researches	Oct 16-18, 2023	Sivas, Turkiye and Sivas Cumhuriyet university, Food studied and application and research center and IKSAD Institute
Sahil Chaudhary, Barinderjit Singh	Grapefruit Peels- Valorization towards the circular economy	5. International Dicle scientific Research and innovation congress	Sept 9-10, 2023	Diyarbakir/Turkey
Sahil Chaudhary, Barinderjit Singh	Grapefruit peels- From waste to worth	6 th international food, Agriculture and	Sept 22-23, 2023	State agriculture university, Ganja, Azerbaijan, Ege

			veterinary sciences congress			university & IKSAD institute
Simple Barinderjit Singh	Sharma, Singh	Pomelo peel Nutritional, Bioactive and Industrial Importance	6 th international food, Agriculture and veterinary sciences congress	Sept 23,2023	22-	State agriculture university, Ganja, Azerbaijan, Ege university & IKSAD institute
Barinderjit Singh		Deep learning models for classification of cotton crop Disease Detection	Two day international conference Recent Advances in science and engineering	Oct 4-5, 2023		MAHE, Dubai
Simple Barinderjit Singh	Sharma, Singh	Pomelo fruit nutritional composition, industrial utilization, and bioactive composition	International Cappadocia Scientific Research Congress	11-12 December 2022		Cappadocia-Nevsehir, Türkiye, organised by IKSAD Institute
Simple Barinderjit Singh	Sharma, Singh	Importance and applications of engineering properties in food Industries	6th International Icontech Conference On Innovative Surveys In Positive Sciences	December 4-5, 2022		Rijeka, Croatia
Simple Barinderjit Singh	Sharma, Singh	Valorization of pomelo fruit waste and industrial Applications	7 th Asia Pacific International Modern Sciences Congress	November 4-5, 2022		Stie Ganesha College of Economics, Jakarta, Indonesia
Sahil Barinderjit Singh	Chaudhary, Singh	Encapsulation of bio-active compounds from grapefruit waste: a by-product Valorization approach	1st International Traditional Foods and Sustainable Food Systems Symposium	August 10, 2022		Mersin, Turkey
Sahil Barinderjit Singh	Chaudhary, Singh	Grapefruit-utilization of high-value compounds From by-products using novel approaches	ICONFOOD 22 International Congress on Food Researchers	October 14-16, 2022		Sivas, Türkiye Sivas Cumhuriyet University, Turkey
Sahil Barinderjit Singh	Chaudhary, Singh	Grapefruit - A reservoir of bioactive compounds with health promoting effect.	GANUD – 3 rd International Conference on Gastronomy, Nutrition and Dietetics	May 8, 2022		Istanbul Gedik University, Istanbul, Turkey

Simple Barinderjit Singh	Sharma,	Pomelo fruit as a bioactive source and health potential.	GANUD – 3 rd International Conference on Gastronomy, Nutrition Dietetics	May 8, 2022		Istanbul University, Turkey	Gedik Istanbul, Istanbul, Turkey
Barinderjit Singh		Pomelo fruit polyphenolic compound, extraction methods and industrial applications	ICONFOOD 22 International Congress on Food Researchers	Oct 2022	14-16,	Sivas, Türkiye Sivas Cumhuriyet University, Turkey	
Deepika Barinderjit Singh	Kumari,	Nutritional, phytochemical and health benefits of 'citron'	GANUD – 3 rd International Conference on Gastronomy, Nutrition and Dietetics	May 8, 2022		Istanbul University, Turkey	Gedik Istanbul, Istanbul, Turkey
Ravi Kumar Barinderjit Singh, Gurwinder Kaur	Sah,	Effect of dehydration techniques on nutritional and polyphenol content of waste from Kinnow mandarin (<i>Citrus reticulata</i>) and Murcott mandarin (<i>Citrus reticulata x sinensis</i>)	GANUD – 3 rd International Conference on Gastronomy, Nutrition and Dietetics	May 8, 2022		Istanbul University, Turkey	Gedik Istanbul, Istanbul, Turkey
Narinder Ranbir Barinderjit Singh	Kaur, Singh,	Relationship between television advertisement viewing and food eating habits in children will continue into adulthood.	World Children Conference – 2022	April 2022	22-24,	Özay Children's University, İksad Institute and Near East University, Antalya, Turkey	Günsel Istanbul, Istanbul, Turkey
Narinder Ranbir Barinderjit Singh	Kaur, Singh,	Influences of Television Advertisements on Children's Food Eating Habits.	National Conference on Frontiers in Education, Management and Information Technology (FEMIT 2022)	March 2022	26,	Lyallpur College, Punjab, India	Khalsa Kapurthala, Punjab, India
Barinderjit Singh		Optimization of ultrasound assisted extraction conditions for polyphenolic compounds from <i>Macrotyloma uniflorum</i> seeds	ISPEC 13th International Conference on Engineering & Natural Sciences at Burdur, Turkey	March 2022	19-20,	ISPEC Azerbaijan	Institute, Azerbaijan
Narinder Ranbir Barinderjit Singh	Kaur, Singh,	Television viewing habits of the teenagers and early adulthoods,	3rd International E-conference on "Modern Global	March 2022	18,	J.H.A. College, Chennai	Agarsen Chennai, Chennai, India

Strategy in Management,
Commerce, Mathematics,
Science & Technology"

Barinderjit Singh	Influence of television advertisements on early adulthood food eating habits	International conference on global practice of Multidisciplinary scientific studies	June 2022	24-26,	IKSAD Institute and Georgian technical university, Georgia
Barinderjit Singh	Fatty acid profile and bioactive properties of different hard winter wheat Brans	International conference on global practice of Multidisciplinary scientific studies	June 2022	24-26,	IKSAD Institute and Georgian technical university, Georgia
Shivam Barinderjit Sunita Raveendra Bharati, Juan Carlos Carlos Cotrina-Aliaga and Sarvesh Kumar	Tiwari, Singh, Pachar, Kumar approach (paper ID-72)	2 nd International conference on innovative sustainable computational technologies (CISCT-2022)	Dec 2022	23-24,	USERC (Uttarakhand), SERB, IEEE
Dakshan Kumar N, Barinderjit Singh, Rajneesh kant Sachdev	Medicinal properties of ginger formulation in treating thyroid dysfunction	National conference on agriculture and food sciences (NCAFS)	April 24, 2022		New Delhi, India
Amy Marsh, Manpreet Kaur, Barinderjit Singh	Effect of processing on the nutritional properties, polyphenols and antioxidant activity of Watermelon	The International Conference on "Post COVID Journey of Food processing sectors."	September 17-18, 2021.		AICTE and A D Patel Institute of Technology, Gujrat, India
Manpreet Kaur, Barinderjit Singh, Amy Marsh	Food Properties of Sarda and Bobby Muskmelon and effect of Processing on the nutritional properties, polyphenols and antioxidant activity of Muskmelon (<i>Cucumis melo</i>)	The Annual International Conference on Sustainable Agriculture: Negotiating Tradition and Modernity	August 2021	12-14,	Centre for Research, Maitreyi College, University of Delhi, India.
Amy Marsh, Manpreet Kaur, Barinderjit Singh	Food Properties of Watermelon and effect of Processing on the nutritional properties, polyphenols and antioxidant activity of Watermelon (<i>Citrullus lanatus</i>)	The Annual International Conference on Sustainable Agriculture: Negotiating Tradition and Modernity	August 2021	12-14,	Centre for Research, Maitreyi College, University of Delhi, India.

Manpreet Kaur, Amy Marsh, Barinderjit Singh,	Effect of processing on the physicochemical and functional properties of Muskmelon (<i>Cucumis melo</i>)	International Conference on Sustainable Approaches in Food Engineering and Technology (SAFETy-2021)	June 2021	24-25,	University of Georgia, Tezpur University and AFSTI Tezpur chapter, Tezpur, Assam, India
Amy Marsh, Manpreet Kaur, Barinderjit Singh	Effect of processing on the physicochemical and functional properties of Watermelon (<i>Citrullus lanatus</i>)	International Conference on Sustainable Approaches in Food Engineering and Technology (SAFETy-2021)	June 2021	24-25,	University of Georgia, Tezpur University and AFSTI Tezpur chapter, Assam, India.
Barinderjit Singh	Method development for isolation and characterization of plant secondary metabolites	2020 International Young Scholars Workshop	June 3-5, 2020		Suleyman Demirel University, Kazakhstan
Barinderjit Singh*, Reetu, Manpreet Kaur	Characterization of Free and Conjugated Polyphenolic Compounds in <i>Solanum nigrum</i> Fruit	International Virtual Conference on “COVID-19 and Infectious Diseases in Relation to Public Health: Perspectives and Challenges”	May 31, 2020		Career Point University, Hamirpur, Himachal Pradesh
Barinderjit Singh, Reetu*, Menka Saini	Free and conjugated polyphenolic profile of <i>Quisqualis Indica</i> Flower extract	International Virtual Conference on “COVID-19 and Infectious Diseases in Relation to Public Health: Perspectives and Challenges”	May 31, 2020		Career Point University, Hamirpur, Himachal Pradesh
Barinderjit Singh*, Reetu, Manpreet Kaur	Polyphenolic compounds, antioxidant activity and in vitro inhibitory potential against key enzymes relevant for hyperglycemia of <i>Solanum nigrum</i> fruit.	“World Summit on Medical Sciences, Pharmaceutical Sciences & Nursing Sciences Research 2020” (WOMPAN 2020) - online	May 2020	30-31,	Eudoxia Research Centre, India.
Barinderjit Singh	Application of response surface methodology for extraction optimization of polyphenols from <i>Macrotyloma uniflorum</i> seeds	Online International Conference on Application of SPSS and Statistical Data Analysis-2020	April 29 - 30, 2020		Eudoxia Research Centre, India

Sonia Mahajan, Barinderjit Singh*	Optimization of the extraction conditions for polyphenolic compounds from pigeon pea using response surface methodology.	23rd Punjab Science Congress on Emerging Trends in Science and Technology for Sustainable Development	February 7-9, 2020	SLIET, Longowal
Barinderjit Singh	Sequential combination of ultrasound extraction of polyphenols from black gram	23rd Punjab Science Congress on Emerging Trends in Science and Technology for Sustainable Development	February 7-9, 2020	SLIET, Longowal
Barinderjit Singh	Optimization of ultrasound assisted extraction conditions for polyphenolic compounds from <i>Macrotyloma uniflorum</i> seeds	International Agriculture, Animal sciences and Rural development Congress IV	12-14 June, 2020	ISPEC, Ankara
Barinderjit Singh*, Narpinder Singh	Effect of Exogenous Enzymes on the Extraction of Polyphenolic Compounds from Different Fractions of Pluses.	A Multi-track National Conference- SLIETCON- 2019 (Track I: “New Horizons in Food Processing Technology and Nutrition-NHFPTN- 2019”)	March 1-2, 2019	SLIET, Longowal, Sangrur, India (held at NITTTR, Chandigarh, India)
Barinderjit Singh*, Narpinder Singh	Polyphenolic compounds among different <i>Vigna</i> Species: Effect of extraction conditions, exogenous enzymes and processing methods.	Emerging and Sustainable Technologies in Food Processing (ESTFP- 2018)	March 15-16, 2018	SLIET, Longowal, Sangrur
Barinderjit Singh*, Narpinder Singh	Ultrasound-assisted extraction of polyphenols and their distribution in whole cowpea, hull and cotyledon.	Technologies in Sustainable Food Systems (TSFS)	7-8 October 2016	SLIET, Longowal, Sangrur.

Barinderjit Singh*, Nutritional and 17th Punjab Science Punjab Technical
and Niti Sharma polyphenolic Congress 14-16, University,
properties of wheat. February 2014 Kapurthala,

Barinderjit Singh*, Bioactive National Conference on November 15- NIFTEM Campus,
H. K. Sharma and Compounds and "Bioactive Compounds 16, 2013 Kundli, Sonapat,
Niti Sharma Antioxidant Activity and Functional Foods in Harayana
of bran extracts from Health and Disease
Different Hard Management
Winter Wheat
(*Triticum spp.*)
Varieties

* Name of presenter

Poster in National & International Conferences

Authors as on the paper	Title of paper	Event	Date of event	Name of organizer
Reetu*, Barinderjit Singh, Aayush Wadhwa	Biofortification of Sorghum for Combating Hidden Hunger for Iron.	Multi-Disciplinary National Conference "Science & Technology for Sustainable Future"	March 6-7, 2020	DAV College, Jalandhar (SERB-DST & DBT Sponsored)
Suraj Prabha*, Barinderjit Singh	Physical, Optical and Textural Properties of Different Varieties of Carrots (<i>Daucus carota</i>).	Multi-Disciplinary National Conference "Science & Technology for Sustainable Future"	March 6-7, 2020	DAV College, Jalandhar (SERB-DST & DBT Sponsored)
Jasmin Kaur*, Barinderjit Singh	Technologies for Nutritional Enhancement of Grain Based Products with Bioactive Components.	Multi-Disciplinary National Conference "Science & Technology for Sustainable Future"	March 6-7, 2020	DAV College, Jalandhar (SERB-DST & DBT Sponsored)
Abhishek Sharma*, Barinderjit Singh	Nutritional Value and Engineering Properties of Kainth fruit.	Multi-Disciplinary National Conference "Science & Technology for Sustainable Future"	March 6-7, 2020	DAV College, Jalandhar (SERB-DST & DBT Sponsored)
Abhishek Bhargav*, Barinderjit Singh	Nutrition Enhancement of Muffin with Bioactive Components.	Multi-Disciplinary National Conference "Science & Technology for Sustainable Future"	March 6-7, 2020	DAV College, Jalandhar (SERB-DST & DBT Sponsored)
Amy Masih*, Barinderjit Singh	Engineering Properties of Different Varieties of Beans.	Multi-Disciplinary National Conference "Science & Technology for Sustainable Future"	March 6-7, 2020	DAV College, Jalandhar (SERB-DST & DBT Sponsored)
Manpreet Kaur*, Barinderjit Singh	Engineering Properties of Major Legumes.	Multi-Disciplinary National Conference "Science & Technology for Sustainable Future"	March 6-7, 2020	DAV College, Jalandhar (SERB-DST & DBT Sponsored)
Sonia Mahajan, Barinderjit Singh*	Sequential Combination of Ultrasound and Microwave-Assisted Extraction of polyphenols from the black gram.	23rd Punjab Science Congress on Emerging trends in Science and Technology for Sustainable Development	7-9 Feb 2020	SLIET, Longowal
Suraj Prabha*, Barinderjit Singh	Engineering Properties of Different Varieties of Carrot.	23rd Punjab Science Congress on Emerging trends in Science and Technology for Sustainable Development	7-9 Feb 2020	SLIET, Longowal
Reetu*, Aayush Wadhwa,	Iron Biofortification of Sorghum by Soaking and	23rd Punjab Science Congress on Emerging	7-9 Feb 2020	SLIET, Longowal

Barinderjit Singh	Germination: Effect on Proximate Composition, Iron, Bioactive and Functional Properties.	trends in Science and Technology for Sustainable Development
Arshdeep Kaur*, Barinderjit Singh, Jyotsana	Need and Opportunities of Nutrigenomics in Agriculture and Food Industry.	Inbix'19: Indian Conference on Bioinformatics February 22-23, 2019
Jasmin Kaur Cheema*, Barinderjit Singh	Proximate, Fatty acid and Anthocyanin Analysis of Kokum (<i>Garcinia Indica</i>). <i>(Best Poster Award)</i>	A Multi-track National Conference- SLIETCON-2019 (Track I: "New Horizons in Food Processing Technology and Nutrition-NHFPTN-2019")
Arshdeep Kaur*, Barinderjit Singh	Proximate, amino acid and carotenoids analysis of Jackfruit.	A Multi-track National Conference- SLIETCON-2019 (Track I: "New Horizons in Food Processing Technology and Nutrition-NHFPTN-2019")
Abhishek Sharma* and Barinderjit Singh	Nutritional Value, Polyphenols and Antioxidant Property of Kaphal fruit (<i>Myrica esculenta</i>).	A Multi-track National Conference- SLIETCON-2019 (Track I: "New Horizons in Food Processing Technology and Nutrition-NHFPTN-2019")
Suraj Prabha*, Barinderjit Singh	Nutritional and Antioxidant Properties of Oats.	A Multi-track National Conference- SLIETCON-2019 (Track I: "New Horizons in Food Processing Technology and Nutrition-NHFPTN-2019")
Manpreet Saini, Barinderjit Singh, Samridhi Mandeel*	Polyphenolic compounds, antioxidant activity and <i>in vitro</i> inhibitory potential against key enzymes relevant for hyperglycemia of <i>Solanum nigrum</i> fruit.	Emerging and Sustainable Technologies in Food Processing (ESTFP-2018)

Abhishek Chaudhary, Barinderjit Singh, Aayush Wadhwa*	Diversity of polyphenols in the different fractions of Kusum fruit. (Best Poster Award)	Emerging Sustainable Technologies in Food Processing (ESTFP-2018)	and	March 15-16, 2018	SLIET, Sangrur.	Longowal,
Devisha Thakur*, Barinderjit Singh	Nutritional value, Polyphenols and Antioxidant Properties of Corn (<i>Zea Mays</i>).	Emerging Sustainable Technologies in Food Processing (ESTFP-2018)	and	March 15-16, 2018	SLIET, Sangrur.	Longowal,
Uzain Zahoor*, Barinderjit Singh	Development of novel products from fish industry waste.	Emerging Sustainable Technologies in Food Processing (ESTFP-2018)	and	March 15-16, 2018	SLIET, Sangrur.	Longowal,
Priyanka Singh*, Barinderjit Singh	An Application of Analytical Hierarchy Processing for Examining the Customer Value Perceptions Towards Organic Food.	Emerging Sustainable Technologies in Food Processing (ESTFP-2018)	and	March 15-16, 2018	SLIET, Sangrur.	Longowal,
Menka Saini, Barinderjit Singh, Sonia Mahajan*	Optimization of the extraction conditions for bioactive components from <i>Quisqualis indica</i> flower using response surface methodology.	Emerging Sustainable Technologies in Food Processing (ESTFP-2018)	and	March 15-16, 2018	SLIET, Sangrur.	Longowal,
Nikita Dixit*, Barinderjit Singh	Nutritional, Physicochemical and Antioxidant Properties of Groundnuts.	Emerging Sustainable Technologies in Food Processing (ESTFP-2018)	and	March 15-16, 2018	SLIET, Sangrur.	Longowal,
Barinderjit Singh, H.K. Sharma, Mandeep Kaur*	Diversity of polyphenols in the bran obtained from different varieties of wheat.	Emerging Sustainable Technologies in Food Processing (ESTFP-2018)	and	March 15-16, 2018	SLIET, Sangrur.	Longowal,
Barinderjit Singh*, Narpinder Singh	Optimization of Ultrasound-Assisted Extraction of Polyphenols from black gram and their Distribution in Different Milling Fractions. (Best Poster Award)	Food Processing for Sustainable Agriculture & Industry (ICFOST XXV)		10-12 November 2016	Guru Nanak Dev University, Amritsar and AFSTI in association with CFTRI and DRDO	
Abhishek Chaudhary*, Barinderjit Singh	Optimization of Ultrasound-Assisted Extraction of bioactive components from	Food Processing for Sustainable Agriculture & Industry (ICFOST XXV)		10-12 November 2016	Guru Nanak Dev University, Amritsar and	

	Schleichera Oleosa fruit using Response Surface Methodology.			AFSTI in association with CFTRI and DRDO
Priyanka Singh*, Barinderjit Singh, Arun Kumar Deshmukh	Analyzing and Prioritizing Perceived Customer Value Perceptions Towards Functional Food - A Multi-Criteria Modelling Approach.	Food Processing for Sustainable Agriculture & Industry (ICFOST XXV)	10-12 November 2016	Guru Nanak Dev University, Amritsar and AFSTI in association with CFTRI and DRDO
Charu Goel*, Barinderjit Singh, Gaurav Bhargava	Ultrasound-assisted extraction of polyphenols from apple and their distribution in peel and pulp. (<i>Best Poster Award</i>)	Food Processing for Sustainable Agriculture & Industry (ICFOST XXV)	10-12 November 2016	Guru Nanak Dev University, Amritsar and AFSTI in association with CFTRI and DRDO
Prakhar Singh*, Rakesh K. Rai, Shweta Mishra, Richa Kumari, Pallavi Sinha, TM Mohapatra, Barinderjit Singh	Microbial quality analysis of milk and milk products: A Study of Varanasi District.	Food Processing for Sustainable Agriculture & Industry (ICFOST XXV)	10-12 November 2016	Guru Nanak Dev University, Amritsar and AFSTI in association with CFTRI and DRDO
Manpreet Saini, Barinderjit Singh*, Sanjeev Kumar	Optimization of the extraction conditions for bioactive components from Solanum nigrum using response surface methodology.	Food Processing for Sustainable Agriculture & Industry (ICFOST XXV)	10-12 November 2016	Guru Nanak Dev University, Amritsar and AFSTI in association with CFTRI and DRDO
Menka Saini, Barinderjit Singh, Sonia Mahajan*	Development and Quality Evaluation of RTS (Ready to Serve) Beverages Made from Quisqualis indica flower.	Food Processing for Sustainable Agriculture & Industry (ICFOST XXV)	10-12 November 2016	Guru Nanak Dev University, Amritsar and AFSTI in association with CFTRI and DRDO
Manpreet Saini, Barinderjit Singh, Uzain Zahoor*	Physicochemical, Sensory Characterization, Enzyme inhibitory and antioxidant activities of Solanum nigrum fruit jam.	Food Processing for Sustainable Agriculture & Industry (ICFOST XXV)	10-12 November 2016	Guru Nanak Dev University, Amritsar and AFSTI in association with CFTRI and DRDO
Barinderjit Singh*, Priyanka Singh	Analyzing and prioritizing customer value perceptions towards nutraceuticals using analytical hierarchy processing (AHP) modeling - A multi-criteria decision approach.	Technologies in Sustainable Food Systems (TSFS 2016)	7-8 October 2016	SLIET, Longowal, Sangrur.

Niti Sharma* and Nutritional and 17th Punjab Science February Punjab Technical
Barinderjit Singh polyphenolic properties Congress 14-16, University, Kapurthala
of *Macrotyloma* 2014
uniflorum.

* Name of presenter

Annexure G

Faculty Development Program

Year	Title of the Faculty Development Program	Name of organizer	Duration	Date (from-to)	Mode
2024	Data Science using Python	National Institute of Technical Training and Research, Chandigarh	One week	November 25-29, 2024	Online
2024	Deep Learning for Engineering Applications	National Institute of Technical Training and Research, Chandigarh	One week	September 02-06, 2024	Online
2024	AI Evolution: From Foundations to Generative AI	Association of Indian Universities (AIU) & Academic and Administrative Development Centre (AIU-SSU-AADC)	One week	June 03-10, 2024	Online
2024	Skill Development for Business Start-ups	National Institute of Technical Training and Research, Chandigarh & I.K.Gujral Punjab Technical University, Jalandhar, Kapurthala	One week	May 13-17, 2024	Offline
2024	Outcome Based Education and Essential AI Tools for Teachers,	St. Thomas College, Palai in association with The Kerala State Higher Education Council (KSHEC)	One week	January 10-16, 2024	Online
2022	Applications of computing Techniques in sustainable energy systems	AICTE-IKGPTU	One week	June 15-20, 2022	Offline
2022	Advancement in the methodologies for the development of synthetic materials	AICTE-IKGPTU	One week	June 6-11, 2022	Offline
2021	Social Entrepreneurship	AICTE Training And Learning (ATAL) and Entrepreneurship Development Institute of India	One week	October 04-08, 2021	Online
2021	Entrepreneurship	AICTE Training And Learning (ATAL) and Entrepreneurship	One week	September 20-24, 2021	Online

		Development Institute of India			
2021	Novel Technological Approaches for Utilization of Food Industry Waste	AICTE Training And Learning (ATAL) and National Institute of Food Technology Entrepreneurship and Management (NIFTEM)	One week	September 13-17, 2021	Online
2021	Agri Entrepreneurship	AICTE Training And Learning (ATAL) and Entrepreneurship Development Institute of India	One week	August 23-27, 2021	Online
2021	Aqua-Food Technology (Emerging Food Processing Technologies: Prospects and Challenges for Food and Nutrition)	AICTE Training And Learning (ATAL) and Tezpur University	One week	January 4-8, 2021	Online
2021	Research integrity and Ethics	Sri Sai College of Engineering and technology, Badhani Pathankot	One week	22 nd -26 th June, 2021	Online
2021	ICT tools for teaching and learning process and institute	Electronics and ICT Academics	Two weeks	15 th -26 th March, 2021	Online
2021	Digital tools for writing, authoring and reviewing manuscripts	Electronics and ICT Academics	Two weeks	12 th -23 rd July, 2021	Online
2020	Computer Science & Biology	AICTE Training And Learning (ATAL) and Lakshmi Narain College of Technology	One week	December 15-19, 2020	Online
2020	Postharvest and Processing (Food Technology)	AICTE Training And Learning (ATAL) Academy and National Institute of Food Technology Entrepreneurship and Management	One week	November 02-06, 2020	Online
2020	Pedagogical Techniques for Virtual Classroom	Dr SSBUI CET, Panjab University & DUIET, Dibrugarh University (under the aegis of TEQIP- III project)	One week	September 2-6, 2020	Online

2020	Teaching and Learning in Higher Education	International Institute of Education Research & Training and Eudoxia Research Centre, India	One Month	July 20, 2020 to August 14, 2020	Online
2020	Current Progress and Future Prospects of Biotechnology	Chaitanya Bharathi Institute of Technology, Hyderabad and Andhra Pradesh Akademi of Sciences	One week	June 8-13, 2020	Online
2020	Research and Innovation	Sri Sai College of Management & Information Technology, Badhani-Pathankot	One week	June 05-09, 2020	Online
2020	Enhancing Research Capabilities	Society of Materials and Mechanical Engineers (SOMME), Bathinda and AICTE	One week	June 1-5, 2020	Online
2020	Research Methodology: Tools & Techniques	Inspira Research Association (IRA) & LBG PG College, Jaipur	3 days	May 29-31, 2020	Online
2020	Challenges in Building Collaborations in Research and Innovation	Dr M.G.R. Educational and Research Institute, Tamilnadu, India	One day	May 09,2020	Online
2020	Data analysis and visualization using python	IKGPTU, Kapurthla, India in association with IIT Bombay Spoken Tutorial (An initiative of the National Mission on Education through ICT, MHRD, Govt of India)	One week	06 th -10 th July, 2020	Online
2020	LaTex	Sri Sai College of Engineering and Technology, Badhani, Pathankot, in association with IIT Bombay Spoken Tutorial (An initiative of the National Mission on Education through ICT, MHRD, Govt of India)	Two week	23rd March to 4th April 2020	online

2020	Mathematical modeling and numerical techniques 2020	Kakatiya Institute of Technology of Science, Telangana, India	One week	27 th – 31 th July 2020	Online
2020	Innovative teaching learning practices	K.R. Managalam university	One day	17 th July, 2020	online
2020	Bitcoin and cryptocurrency in blockchain technology	Panimalar institute of technology	Two day	20 th –21 st June, 2020	Online
2019	FDP on Fostering Creativity and Innovation in Entrepreneurship	National Institute of Technical Training and Research, Chandigarh & I.K.Gujral Punjab Technical University, Jalandhar, Kapurthala	One week	December 16-19, 2019	offline
2019	Surface Engineering and Materials Characterization	AICTE Training and Learning Academy, Jaipur	One week	Dec 09-13, 2019	offline
2019	Internet of Things	AICTE Training and Learning Academy, Jaipur	One week	Dec 02-06, 2019	offline
2019	Modern Tools and Techniques for Teacher and research	AICTE-IKGPTU	One week	November 18-22, 2019	offline
2018	FDP for student induction	AICTE, New Delhi and IKGPTU, kapurthla	Three days	3 rd – 5 th July, 2018	Offline
2012	Basics of Structural Equation Modeling	Jointly organized by Punjab Technical University and the University of North Carolina (UNC), USA	One day	December 14, 2012	offline

Annexure H

Short Term Program/Training

Year	Title of the Short-Term Program/Training	Name of organizer	Duration	Date (from-to)	Mode
2024	Digital Productivity	NIIT Foudation, Unicef	Self-learning	October 5, 2024	Online
2024	Advance Unsupervised Machine Learning Internship	Ybi Foundation	2 Week	September 1-11, 2024	Online
2024	AI/ML for Geodata Analysis	Indian Space Reserach Organization and Indian Institute of Remote Sensing, Dehradun	One Week	August 19-23, 2024	Online
2024	Advance Machine Learning with Big Internship	Ybi Foundation	1 month	July 15, 2024 to August 13, 2024	Online
2024	Cloud Computing and Big Data Internship	Ybi Foundation	2 Months	June 12, 2024 to August 13, 2024	Online
2024	Artificial Intelligence and Machine Learning Internship	Ybi Foundation	2 Months	June 4, 2024 to August 4, 2024	Online
2024	Phyton for Data Analysis: Pandas & NumPy	Coursera Learner	Self-Paced	June 19, 2024	Online
2023	Phyton for non-programmers	Linked in learning	Self-learning	July 17, 2023	Online
2023	SQL for data analysis	Linked in learning	Self-learning	July 9, 2023	Online
2023	Introduction to Linux	Linked in learning	Self-learning	July 8, 2023	Online
2023	Data analytics for students	Linked in learning	Self-learning	July 6, 2023	Online
2023	Advance manufacturing (Mapped to FoSTaC)	FICSI	Self-learning	8 th June, 2023	Online
2023	Artificial Intelligence Foundations: Machine learning	Linked in learning	Self-learning	May 31, 2023	online

2021	Bakery Technology Course	Assocom Institute of Bakery Technology & Management (AIBTM), Delhi	Three weeks	January 25-February 12, 2021	Online
2020	'Innovative and Responsible Research Practices' (IRRP-2020)	Sant Longowal Institute of Engineering and Technology (SLIET), Longowal, Sangrur and AICTE	One week	September 15-20, 2020	Online
2020	Transfer Learning for Food Classification	Coursera Project Network and offered through Coursera	2 hrs	Flexible (Self-paced)	Online
2020	The Meat We Eat	University of Florida and offered through Coursera	Seven weeks	Flexible (Self-paced)	Online
2020	Grammar and Punctuation	University of California, Irvine and offered through Coursera	Four weeks	Flexible (Self-paced)	Online
2020	Google Ads for Beginners	Coursera Project Network and offered through Coursera	2 hrs	Flexible (Self-paced)	Online
2020	Food & Beverage Management	Università Bocconi and offered through Coursera	Five weeks	Flexible (Self-paced)	Online
2020	Wine Tasting: Sensory Techniques for Wine Analysis	University of California, Davis and offered through Coursera	Five weeks	Flexible (Self-paced)	Online
2020	Create Informative Presentations with Google Slides	Coursera Project Network and offered through Coursera	Two hours	Flexible (Self-paced)	Online
2020	Journal Citation Reports (JCR) Certification	Web of Science Group, A Clarivate	Self paced	Flexible date	Online

		Analytics Company, South Asia				
2020	The Kahoot app Training	Kahoot	Self paced	Flexible	Online	
2020	Virtual Class Room 2020	PCTI and Center for Future Technology, New Delhi	One week	June 15-20, 2020)	Online	
2020	Dairy Business Management	Department of Dairy Technology, Parul University, Vadodara	One week	June 1-7, 2020	online	
2020	Research Methodology	A.R. Burla Mahila Varishtha Mahavidyalaya, Solapur.	2 week	May 17, 2020 to June 01, 2020	Online	
2020	COVID-19, Guidelines for Food Handlers	Health First in collaboration with FoSTaC and FSSAI, India	Two hours	May 22, 2020	Online	
2020	I5 - Innovation, Incubation, Intrapreneur, Invention & Intellectual Property	S.A. College of Arts & Science	Two week	April 26, 2020 to May 09, 2020	Online	
2020	Understanding Open Education Resources	Commonwealth of Learning, Canada	Self- learning	March 22, 2020	online	
2020	COVID Awareness – Punjabi	DIKSHA and Department of Personnel and Training, India	Self- learning	May 27, 2020	online	
2020	Infection Prevention and Control	DIKSHA and Department of Personnel and Training, India	Self- learning	April 28, 2020	online	
2020	Basic of COVID-19	DIKSHA and Department of Personnel and Training, India	Self- learning	April 26, 2020	online	
2020	Academic writing (4 credit) Swayam	Swayam courses	online Self- learning	Sept., 2020	online	
2020	High impact teaching and learning Skills-I	Nehru college of engineering and research center, Kerala	One week	14-17 Dec., 2020	Online	
2020	Research Methods and publishing	Udemy	Self- learning	July 20, 2020	Online	

2020	Patent Information Course	TURNIP	Two weeks	Nov, 2020	Online
2020	Advanced research methods and data analysis techniques	Dr. B.R. Ambedkar national institute of technology, Jalandhar	One week	July 27-31, 2020	Online
2020	Food and dairy processing for health and wealth development	Parul University	One week	October 12-17, 2020	Online
2019	Catering (Basics)	IKGPTU, Kapurthala, India	Self-learning	12 th March, 2019	Online
2018	Bio-Imaging for Food Quality Monitoring and Process Automation	GAIN Programme of Ministry of Human Resource Development, Government of India Organized by Guru Nanak Dev University, Amritsar, India	Five days	January 5-9, 2018.	Offline
2017	A Tryst with learning	IKGPTU, Kapurthala, India	Two days	June 8-9, 2017	
2013	Hands-on Analytical & Molecular Techniques: Biochemical Conversion Technologies for Advanced Biofuels	Sardar Swaran Singh National Institute of Renewable Energy, Kapurthala, India	Three days	19-20th February, 2013	offline
2012	Soft Computing in Process & Product Optimization	Sant Longowal Institute of Engineering & Technology, Sangrur, India	Five days	February 6-10, 2012	Offline

Annexure I

Workshop

Year	Title of the Workshop	Name of organizer	Duration	Date (from-to)	Mode
2024	DFDA: Drone Fundamentals, Developments and Applications	Dr. B.R. Ambedkar National Institute of Technology, Jaladhar & I.K.G. Punjab Technical University	One Week	May 27-31, 2024	Offline
2023	ChatGPT & AI Tools	Skill Nation	One day	December 7, 2023	Online
2021	Scientific Writing	ICAR-NDRI, Karnal	Two days	June 23-24, 2021	Online
2021	Swayam MOOC & Academic Writing	HNB Garhwal University	One day	January 6, 2021	Online
2021	Outcome based Education and Examination Reform	Sri Sai Group of Institute, Punjab	Two days	May 15-16, 2021	Online
2020	UGC-DAE CSR Facilities	UGC-DAE & HNB Garhwal University, Uttarakhand	Four days	November 9-12, 2020	Online
2020	Understanding OBS Studio & Streamyard for E-Content Creation and Live Streaming	Dr. M.G.R. Educational and Research Institute, Tamilnadu, India	Two Days	July 10-11, 2020	Online
2020	Recent Advances in Dairy & Food Engineering	Department of Dairy Technology, Parul University, Vadodara and GEA Process Engineering (India) Pvt. Ltd, India	One day	September 15, 2020	Online

2020	Hands-On Workshop On “Patent Searching, Drafting And Filing”	PANIMALAR INSTITUTE OF TECHNOLOGY, Tamil Nadu, in association with Turnip Innovations and Exilyze Intellectual Services, IEEE Computer Society & Computer Society Of India	Five days	May 29, 2020 to June 02, 2020	Online
2020	Writing Literature Review Article: Weekend	Jointly organized by CAPE Institute of Technology, Levegipuram and Manuscriptpedia	Half day	May 16, 2020	Online
2018	Recent advancements in Thermal Analysis Techniques (DSC, TGA, DTA, TMA, STA)	Jointly organized by KEP Technologies Pvt. Ltd., India and Punjab Technical University, Kapurthala, India	One day	Nov 2, 2018	Offline
2014	Reviewing and Editing of Distance Education Study Material.	DDE, Punjab Technical University, Kapurthala, India	One day	May 06, 2014	Offline
2014	Writing Self Learning Material for ODL Courses	DDE, Punjab Technical University, Kapurthala, India	One day	March 30, 2014	Offline
2014	Writing Self Learning Material & Assignments.	DDE, Punjab Technical University, Kapurthala, India	Two days	February 12-13, 2014	Offline
2012	Vedic Mathematics	Punjab Technical University,	Two days	June 21-22, 2012	Offline
2012	Latest Development in the Emerging Green Technologies Based on the Applications of Microwave Energy to Material Processing	Punjab Technical University, Kapurthala, India. (sponsored by DRDO, INSA New Delhi)	One day	August 20-22, 2012	Offline

2011	A-VIEW Basics	NMEICT (MHRD) at Punjab Technical University, Kapurthala, India.	One day	May 20, 2011	Offline
2011	Making & Managing Patents	Punjab Technical University, Kapurthala, India.	One day	March 16, 2011	Offline
2009	New Biology and Plant Engineering	School of Life Sciences, Jaipur National University, Jaipur, India,	Two days	December 1-2, 2009	Offline
2003	Organic Foods-scope, Production & Benefits	Jointly organized by the Association of Food Science & Technologists, India and Guru Nanak Dev University, Amritsar, India	One day	March 14, 2003	Offline
2002	National & International Food Regulations	Jointly organized by the Association of Food Science & Technologists, India and Guru Nanak Dev University, Amritsar, India	One day	November 11, 2002	Offline

Annexure J

General Orientation Course (GOC)

Year	Title of the General Orientation Course	Name of organizer	Duration	Date (from-to)	Mode
2015	UGC- Sponsored GOC course	Academic Staff College, Guru Nanak Dev University, Amritsar	28 days	May 5, 2015 to June 1, 2015.	Offline

Refresher Course

Year	Title of the Refresher Course	Name of organizer	Duration	Date (from-to)	Mode
2020	Online refresher programme on MBA- PPC (Management, Business, Administration- Present & Post Crisis	S.A. College of Arts & Science, Chennai, India	21 days	14 April 2020 to 04 May 2020	online
2013	UGC- Sponsored refresher course in the subject "Health & Life Sciences (Food Technology, Nutrition, Home Sciences, Pharmaceutical Sciences, Sports Medicine, Physiotherapy, Bio-Sciences & Physical Education)."	Academic Staff College, Guru Nanak Dev University, Amritsar,	21 days	July 10-30, 2013	offline

Annexure K

Webinar

Year	Title of the Webinar	Name of organizer	Date (from-to)
2023	Clinical research for beginners	IKGPTU, Kapurthala, India	July 17, 2023
2021	English is made easy	PPG College of art and science	May 20, 2021
2021	Tips for Engaging Students in an online class	Lords institute of engineering and technology	May 26, 2021
2020	Food Safety Series- Food Risk Analysis	Department of Food Science and Technology, Pondicherry University, Pondicherry	September 10, 2020
2020	Pulse electric field in foods	ICAR-NAHEP, CAAST and Navsari Agricultural University, Navsari	September 07, 2020
2020	Unblocking the future through emerging precision farming and post-harvest technologies	ICAR-NAHEP, CAAST and Navsari Agricultural University, Navsari	August 30, 2020
2020	Edible landscape and future food systems for healthy diets	ICAR-NAHEP, CAAST and Navsari Agricultural University, Navsari	August 30, 2020
2020	Recent advances in dairy process engineering	College of Food and Dairy Technology, Koduvalli and Association of Food Scientists & Technologists (India), Chennai Chapter.	August 24-28, 2020
2020	Education 4.0: Reliability Centered Maintenance	School of Mechanical Engineering, Vellore Institute of Technology, Chennai	July 19, 2020
2020	Knowledge sharing on A to Z of Journal Publications (Survey to Citation!!)	Institute for Engineering Research and Publication	May 30, 2020
2020	World food safety week-2020	AFST(I)	June 1-7, 2020
2020	Food Chemistry to Immunity (Farm to Fork Safety)	Sri Sai College of Management & Information Technology, Badhani-Pathankot	June 12, 2020
2020	Research Article Writing and Publishing in Good Impact Journal	Institute for Engineering Research and Publication	June 13, 2020

2020	Setting a New Normal in Food Processing Sector in Post COVID-19: Opportunities and Challenges	Department of Processing and Food Engineering, College of Technology and Engineering	June 10, 2020
2020	Current progress and future prospects of biotechnology	Department of biotechnology, CBIT, in association with Andhra Pradesh Akademi of Sciences	June 08 to June 13, 2020
2020	Webinar #askRSF part 2: How to Make Your Conference Effective and Efficient	Research Synergy Institute, Bandung	May 20, 2020
2020	Entrepreneurship: Opportunities Post COVID-19	Entrepreneurship Development Cell of Moradabad Institute of Technology, Moradabad	May 16, 2020
2020	Plastic waste- Sources, Production, Management and Handling in Post COVID-19 World	Punjab University Rural Centre Kauni (Shri Muktsar Sahib)	May 18, 2020
2020	Role of dietary spices in human health and wellness	Association of Food Scientists and Technologists (India)	May 16, 2020
2020	Impact of COVID on Entrepreneurship	Center for Management Studies, JAIN (Deemed-To-Be University), Bangalore, India	May 21, 2020
2020	The New Normal in Education	St. Albert's College (Autonomous), Kerala India	May 23, 2020
2020	Modes of Teaching and Learning in Lockdown	SWAYAM-NPTEL Local Chapter, Guru Nanak Dev Engineering College, Ludhiana, India	May 11, 2020
2020	International webinar on Global Economic Development Impact of COVID-19- Issue, Challenges, and the way forward	Jointly organised by IQAC and PG & Research Center of Poona College of Arts, Science & Commerce, Pune, India	May 1, 2020
2020	How to Avoid Fraudulent Image Manipulation	Enago Academy, United States	March 25, 2020
2020	How to Write a Persuasive Academic Book Proposal	Enago Academy, United States	May 13, 2020
2020	International webinar on Global Economic Development "Impact of COVID-19: Issue, Challenges and the way forward	Jointly organized by IQAC & department of Commerce, PG & Research Center and BBA CA department of Poona College of Arts, Science & Commerce.	May 1, 2020
s2020	Stress Management during Lockdown	MIT Moradabad, U.P., India	May 17, 2020

2020	Student Engaging Classrooms-Online/Offline	University Institute of Engineering and Technology, Panjab University, Chandigarh, India	May 15, 2020
2020	Honey: Natural Immunity Booster to Combat Infectious Diseases & Beekeeping Economics	Career Point University, Himachal Pradesh, India	May 19, 2020
2020	Strategies for searching IEEE Xplore	IEEE and IKGPTU, Kapurthala, India	May 29, 2020
2020	Grow, nourish, Sustain together. Our actions are our future	AFSTI and Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur	October 16, 2020
2020	Patent prosecution challenges and strategies in India	TURNIP and The Frontiers legal	July 25, 2020
2020	Entrepreneurial opportunities in food processing sector	NIFTEM	July 15, 2020
2020	Entrepreneurial skills	Guru Nanak Khalsa college, Narayana	May 26, 2020
2020	Cyber Ethics and youth Relationships	St. Alberts college, Kerala, India	July 13, 2020
2020	Predictive Microbiological in food safety	NIFTEM0	June 27, 2020
2020	National E-Pannel Discussion series-Unlocking higher education: digital Transformation	DAV Institute of management, Faridabad	July 16-18, 2020
2020	Food safety and quality assurance: Issues and challenges	ASFTI and NetProFaN	June 13, 2020
2020	Advances in food processing for the development functional foods	Sant longowal institute of engineering and technology, Punjab, India	July 27, 2020
2020	Modified and controlled atmosphere packaging and storage of fresh produce	Sant longowal institute of engineering and technology, Punjab, India	Aug 05, 2020
2020	Sustainability in food industry- is it now the time	Sant longowal institute of engineering and technology, Punjab, India	Aug 12, 2020
2020	Vision of sustainable future foods in Indian contexts	Sant longowal institute of engineering and technology, Punjab, India	July 10, 2020
2020	Food protection – Science and strategies	AFST(I)	May 31, 2020
2020	Gender Implications of COVID-19 pandemic	CMS, Jain	May 23, 2020
2020	Online teaching and effective learning: Bridging the gap	SOMME	May 23, 2020
2020	COVID-19 Crisis: The global economy reshaping	International level online panel discussion by CMS, Jain, Bengaluru	June 4, 2020

2020	Role of nanotechnology in changing medical science in future	Career point university, Hamirpur (H.P)	June 4, 2020
2020	Innovative agro-food processing technologies for entrepreneurship development	RKVY RAFTAAR- Agri business incubator, Agri and food business incubator, Anand agriculture university, Anand, Gujrat	May 5- June 6, 2020
2020	Challenges and opportunities in global food sector	Department of engg. And tech., institute of engg. And technology, Bundelkhand university, Jhansi	June 15, 2020
2020	Virtual interactive classroom for teachers and challenging technologies in post covid-19 Era	IFERP	June 05, 2020
2020	Marketing during Covid-19	CMS, Jain0	May 28, 2020
2020	Planning and control measures for new start-up fruit processing enterprise	Department of technology and R&D cell of JCT college of engg. Technology, Coimbatore	June 22, 2020
2020	Effective Usage of J-Gate @e-ShodhSidhy for learning, teaching, Research and project work	Manonmaniam Sundaranar University	May 28, 2020
2020	Food adulteration and labelling	Research cell, department of food processing, Department of food nutrition, Padmashree Institute of management and sciences, Bangalore	June 11, 2020
2020	Latest applications on food and beverages analysis using potentiometric titration and ion chromatography	Metrohm	May 28, 2020
2020	Ergonomic issues of working from home during covid-19 pandemic	Sri Sai college of engg. And technology, Badhani, Pathankot	June 11, 2020
2020	Quadrants of MOOCs & E-Content development	Sri Sai college of engg. And technology, Badhani, Pathankot	June 09, 2020
2020	E-Content Dissemination and collaborative learning using wakelet	Sri Sai college of engg. And technology, Badhani, Pathankot	June 08, 2020
2020	Students intern ship program powered by spoken tutorials IIT Bombay	Sri Sai college of engg. And technology, Badhani, Pathankot	June 10, 2020
2020	New Kahoot! Features. New NS teams features!	Kahoot	May 27, 2020
2020	The how? And why? Of transitioning to data science for non IT professionals	Cambridge institute of technology, Bengaluru	May 30, 2020
2019	How universities can leverage AI to accelerate innovation and commercialization of patents	XLPAT Labs	Nov 14, 2019

Seminar

Year	Title of Seminar	Name of organizer	Date (from-to)
2013	National Seminar on “Food Processing & Technology (NSFT-13)”	Department of Food Science & Technology, DAV College, Jalandhar,	Feb 22, 2013
2012	One day Seminar on “Mother Tongue & Media: Challenges & Prospects”	Punjab Technical University,	November 29, 2012

Symposium

Year	Title of the Symposium	Name of organizer	Date (from-to)
2012	Biofluid Dynamics of Human Body System	Punjab Technical University,	March 12, 2012

Quiz Participation

Year	Title of the Quiz Participation	Name of organizer	Date (from-to)
2020	Coronavirus Disease (COVID-19) Awareness Quiz, 2020	Department of Biotechnology, TERI School of Advanced Studies, New Delhi	May 27, 2020
2020	an E-Quiz on “ World Milk Day”- Test Your Dairy And Food Product Knowledge	College of Dairy and Food Technology, Udaipur, Rajasthan	June 1, 2020

Annexure L

Conference Attended (International/National)

International Conference

Year	Title of the International Conference	Name of organizer	Date (from-to)
2020	2020 Kahoot! EDU Summit	Kahoot Academy	June 17, 2020
2020	Chemical Science Frontiers: The Virtual International Conference	Department of Chemistry, Uka Tarsadia University, Bardoli	May 29 -30, 2020
2014	3 rd International Conference on “Human Values in Higher Education.”	Punjab Technical University,	February 28-March 2, 2014
2014	9 th Nutra India Summit	CSIR, IIFoST & MM ACTIV, India	March 12-14, 2014
2012	Marketing in Emerging Economies: An Agenda for the Next Decade	Jointly organized by Punjab Technical University and the University of North Carolina (UNC), USA	December 15-16, 2012
2012	Advancements & Futuristic Trends in Mechanical & Materials Engineering	Punjab Technical University,	October 5-7, 2012
2012	7 th Nutra India Summit	CSIR, IIFoST & MM ACTIV, India	March 12-15, 2012
2011	Advancements & Futuristic Trends in Mechanical & Materials Engineering	Punjab Technical University,	October 7-8, 2011

National Conference

Year	Title of the National Conference	Name of organizer	Dates
2020	National Conference "Science & Technology for Sustainable Future"	DAV College, Jalandhar (SERB-DST & DBT Sponsored)	March 6-7, 2020
2020	Punjab Science Congress on Emerging trends in Science and Technology for Sustainable Development	SLIET, Longowal	7-9 Feb 2020
2019	Multi-track National Conference- SLIETCON-2019 (Track I: “New Horizons in Food Processing Technology and Nutrition-NHFPTN-2019”)	NITTTR, Chandigarh by SLIET, Longowal, Sangrur. (BEST PAPER AWARD)	March 1-2, 2019

Annexure M

Patent Published/Granted

Title of the Patent	Inventor/s Name	Patent Publication Number / Patent Granted Number	Patent Filed Date	Patent Published Date / Granted Date	Type of Patent (Design/Utility)	Patent Country	Status of Patent (Published / Granted)
An IoT enabled apparatus for cooking	Dr. M. Chrispin Das, Mr. Aravindharamanan S Dr. Balachandra Pattanaik Dr. Shikha Maheshwari Mr. Saswata Das, Dr. Barinderjit Singh,	202022102616.5	12-05-2022	31-05-2022	Utility	German	Granted
Milk Analyzer	Dr. Barinderjit Singh Dr. Bhupinder Singh Dr. Yashi Srivastava Dr. Rubinder Singh Sandhu	363763-001	05/05/2022	21/09/2022	Design	India	Granted
Adulteration Monitoring Device	Dr. Barinderjit Singh, Dr. Rubinder Singh Sandhu Dr. Bhupinder Singh Dr. Yashi Srivastava	364429-001	19/05/2022	26/09/2022	Design	India	Granted
Seed Quality Analyzer	Dr. Barinderjit Singh Dr. Yashi Srivastava Dr. Rubinder Singh Sandhu Dr. Bhupinder Singh	365447-001	05/06/2022	26/09/2022	Design	India	Granted
Driver Performance Scoring Smart System And Safety Warning With	Dr. Mareddy Padma Lalitha Dr. N. Chellammal Dr. Narapureddy S. Reddy	20 2022 100 928	18-02-2022	22-03-2022	Design	German	Granted

Accident Proneness Filtering Using Machine Learning	Dr.Oruganti Hemakesavulu Dr. Kanasottu Anil Naik Dr. Girish Kumar Sharma Dr. Subramanian Saravanan Mr. K. Balakrishnan Dr. Prabhat K.Srivastava Mr. Pankaj Negi Dr Barinderjit Singh Dr. Pratap Patil							
Vegetable quality analyser	Dr. Barinderjit Singh, Dr.Rubrinder Singh Sandhu Dr.Yashi Srivastava Dr. Bhupinder Singh	367710-001	15-07-2022	30/03/2023	Design	India	Granted	
Milk Adulteration Monitoring Device	Dr. Barinderjit Singh Dr. Yashi Srivastava Ms. Reetu Ms. Gurwinder Kaur	375235-001	08/12/2022	25/01/2023	Design	India	Granted	
Fruit Juice Machine	Dr. Barinderjit Singh Dr. Yashi Srivastava Ms.Reetu Dr. Bhupinder Singh	373988-001	11-12-2022	01-04-2023	Design	India	Granted	
A Handheld Medical Test Device	Charu Awasthi, Prof. Mrunalini Buradkar, Dr. Barinderjit Singh, Udit Mamodiya	362610-001	15-04-2022	27-04-2023	Design	India	Granted	
Portable Solar Onion Dryer	Dr. Barinderjit Singh Dr. Yashi Srivastava Ms.Reetu Dr. Sarvesh Rustagi	379150-001	12/02/2023	01/05/2023	Design	India	Granted	
AI based waste management machine	Dr.Sushil Kumar Bansal, Dr. Ashutosh Mishra Dr. Sathish K.Ravichandran, Archana Sasi, Dr. Barinderjit Singh	6289942	14/06/2023	21/06/2023	Design	U.K.	Granted	

A Cholesterol monitoring Device	Anu Prakash, Ankit Kumar Navalakha, Dr. Nalini Kanta Sahoo, Dr. Barinderjit Singh	362219-001	08-04-2022	16-11-2023	Design	India	Granted
IOT-Based Biofertilizer and Biocontrol Device for Agriculture	Dr. Deepak Kholiya Dr. Shilpa Prashant Kodgire Dr. Prashant P. Pangrikar Dr. M. Santhoshkumar Dr. C. Prabakaran Dr. Barinderjit Singh Dr. Droupti Yadav Dr.M. V. Ghamande	428550-001	04-09-2024	04-12-2024	Design	India	Granted
AI Based Plant Extract Analysing Device to Identify Disease	Dr. Kasanagottu Srinivas, Dr. Manoj Kumar Sharma Dr. Avadhesh K. Koshal Dr. Barinderjit Singh Dr. Pankaj Shesharao Kaste Mr Mahendra Pratap Singh, Dr.Suniti Kumar Kuriyal Dr. Bantagahalli P. Ashok Dr. Mridula Tewari Dr. Durai Murugan	6386488	24-08-2024	03-09-2024	Design	UK	Granted
AI Based Device for Determining Crop Yield	Dr. Barinderjit Singh Dr.N. Pannirselvam Mr. Sachin Suresh Ahankar Mr. Akshay Shirole Mr. Mohammad Arsh Khan Dr.Preesat Biswas Dr. Shanti Rathore	426923-001	13-08-2024	25-10-2024	Design	India	Granted
Portable Food Microbiology Analyzer	Dr. Barinderjit Singh, Mayank, Dr Anant Krishan Pun, Dr. Mohd Vasiulla, Dr Arunkumar Madupu, Ms. Gurwinder Kaur,	28-08-2024	28-08-2024	08-10-2024	Design	India	Granted

Dr. Mandeep Kaur
Ghumman
