

BIO-DATA

Subject : Agricultural Engineering
Specialization: (Processing & Food Engineering)



Personal Details

Name : Dr. Upendra Singh

Official Address:
Dr. UPENDRA SINGH,
Assistant Professor & In-charge
(Agriculture Engineering)
Department of Agriculture Engineering,
SKN College of Agriculture
Sri Karan Narendra Agriculture University
Jobner, Jaipur
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Corresponding Address:
Dr. UPENDRA SINGH,
Assistant Professor (Agriculture
Engineering)
E-11, Rajasthan Agricultural Research
Institute, Durgapura, Jaipur 302018

Father's Name : Shri Durga Prasad
Date of birth : Feb.20, 1980
Marital Status : Married
Sex : Male
Nationality : Indian
Languages Known : Hindi, English.

Educational Qualifications

Exam. Passed	Board/University	Grade	Subject/ Specialization	Year of Passing
X th	U.P. Board	Second	Science stream	1995
XII th	U.P. Board	First	Physics, Chemistry, Math & Agriculture	1997
B. Tech.	Chandra Shekhar Azad Univ. of Agri. & Tech., Kanpur (U.P.)	First	Agricultural Engineering	2002
M.E.	Maharana Pratap Univ. of Agri. & Tech., Udaipur (Raj)	First	Agricultural Engineering (Processing & Food Engineering)	2004
NET	ICAR-ASRB	Cleared	Post Harvest Engg. & Tech.	2010
Ph.D.	Maharana Pratap Univ. of Agri. & Tech., Udaipur (Raj)	First	Agri. Engg. (Processing & Food Engineering)	2011

Title of Research Thesis:

S. No.	Degree	Research / Thesis
1.	M.E. (PFE)	Dehydration Characteristics of Button Mushroom.
2.	Ph.D. (PFE)	Evaluation of Textural Properties of Guava and Tomato as a Function of Maturity.

Orientation Programme / Course/ Training organized : 14

S.No	Name of program	Organization	Duration	Responsibility
1.	Orientation meeting and training on data collection methodology for post harvest loss assessment (ICAR-MoFPI project)	A.R.S., Durgapura, Jaipur	Sept 03-07, 2012	Co- organizer
2.	One day awareness cum training programme on “Cottage Level Food Processing Entrepreneurship Development for Farmers”	A.R.S., Durgapura, Jaipur	Sept 28, 2012	Co- organizer
3.	Orientation program for newly recruited faculty	DHRD, SKNAU, Jobner	Sept 04-24, 2018	Co-coordinator
4.	Three Days Training conducted for Pradeshik Cooperative Dairy Federation (Manager / Regional supervisor)	RARI, Durgapura, Jaipur	July 14-16, 2018	Co- Organizer
5.	Three days (05 trainings) on Aonla/Aloe Vera Processing and Different products: A Source of Income Generation	Deptt of Agril Engg, SKNCOA, Jobner	Dec 18-20, 2018 Dec 27-29, 2018 Feb 14-16, 2019 Feb 21-23, 2019 June 10-12, 2019 Sept 02-04, 2019 Nov 25-27, 2019 Dec 19-21, 2019	Organizer
6.	Three Days Training conducted for Pradeshik Cooperative Dairy Federation (Manager / Regional supervisor)	Directorate of Extension Education	OCT 06-08, 2021	Co- Coordinator
7.	Orientation program for newly recruited faculty	DHRD, SKNAU, Jobner	Dec 01-21, 2021	coordinator
8.	Ist International Extension Education Congress	Society of extension Education,	December 18-20, 2023	Co- organization

-2023 on Rural Transformation and sustainable Agri-Food System through community-based organization (CBO) Oriented Extension Strategy	Agra, RARI, Durgapura, jaipur		secretary
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Orientation Programme / Summer School/ Short Course / International Training attended: 07

1. Orientation program at Directorate of human resource Development, S.K.R.A.U, Bikaner during **Feb 13-26, 2013.**
2. ICAR- Summer School on “**Advances in Processing, Value Addition and By-product Utilization of Livestock and Fish Produce**” CIPHET, Ludhiana during **July 08-28, 2015.**
3. ICAR - Short course on “**Climate Change Adaption and Mitigation Strategies for Sustainable Agriculture**” Deptt of Horticulture, SKNCOA, Jobner, Jaipur, during **November 24-December 03, 2016.**
4. ICAR- Winter School on “**Advances in Post Harvest Management of Dairy and Food Products**” Maharana Pratap University of Agriculture and Technology, Udaipur, Rajasthan during **January 01 to January 21, 2018.**
5. International R & D training course on “**Agricultural Engineering & Technologies**” Ministry of Agriculture & Rural Development, Israel during Oct 14 –Nov 02,2018
6. ICAR- Winter School on “**Renewable Energy Technologies for agricultural sector and Rural Sectors**” Maharana Pratap University of Agriculture and Technology, Udaipur, Rajasthan during **Feb 15 to March 07, 2022.**
7. International training in **Asian Institute of Technology, Bangkok, Thailand** during Sept 06 – Dec 05, 2023.

Experience in Teaching / Professional / Research:

S. No.	Institute	Post Held	Nature of Duties	Duration		Period
				From	To	
1.	CIAE, Bhopal (M.P.)	Research Associate	Research work pertaining to value addition & post harvest management of Soybean	Sep 24, 2004	Dec 31, 2004	3 Months
2.	AWSAR, New Delhi	Project Incharge	Extension and Training to Farm Facilitation Centre	Jan 01,,2005	Feb 25, 2006	1 Year,1 month and 25days
2.	CDFST, MPUAT, Udaipur, (Raj.)	Faculty	Teaching (contractual teaching, graduate students of Dairy and Food Technology)	Feb 26, 2006	Aug 08, 2006	6 Months 3 days
3	CIPHET, Ludhiana (Punjab)	Research Associate	Research work pertaining to cryogenic grinding of selected Indian spices	May 20, 2011	July 07, 2011	1 Month and 17 Days
3	CDFST, MPUAT, Udaipur, (Raj.)	Faculty	Teaching (contractual teaching, graduate students of Dairy and Food Technology)	July 13, 2011	June 25, 2012	1 Year

4.	Deptt of Agril. Engg. SKNCOA, SKN Agric. Univ., Jobner, Jaipur	Assistant Professor & In-charge	Research work pertaining to value addition & post harvest management of aonla, aloe vera and Teaching of B.Sc. (Ag.)	July 26, 2012	Till date	12 Years 05 months
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In Service National/International Fellowship / Award / Recognition : 08

s.no	Name of the awards/recognition	Awarding organization (Place/country)	Year	National/institutional/professional society	Add information
1.	Young Scientist Award-2015	BHU-KVK (UP)	2016	Professional society (SAARS)	
2.	Rajbhasha Gourav Award-2016	Gov. of India	2017	National	First prize given to me by Hon'ble President of India on Sep 14, 2017 (Hindi Divas) at Vigyan Bhawan, New Delhi
3.	DC Memorial Teacher Award-2016	Subhartiya University, Meerut, U.P	2017	Professional Society (Society for world Environment, Food and Technology, New Delhi - SWEFT)	For outstanding contribution in the field of agriculture Engineering
4.	Certificate of Appreciation	SKN Agril University, Jobner, Jaipur (Rajasthan)	2017	Intitutional	Hon'ble Vice Chancellor given this award for sanctioned RKVY Project
5.	International fellowship	MASHAV, Israel	2018	International	Got International fellowship from Ministry of Agriculture, Israel
6.	Young Scientist Award – 2017	C.C.S. University, Meerut, Hapur, U.P.	2017	International Workshop held at “Advances in Agricultural and Biodiversity Conservation for Sustainable Development (ABCD - 2017)” Workshop	For outstanding contribution in the field of agriculture Engineering
7.	SBSRD Fellowship Award 2021	Society of Biological and Rural Development (SBSRD), U.P.	2021	National	For outstanding contribution in the field of agriculture Engineering
8	Young Scientist Award – 2023	SEE, Agra.	2023	International	For outstanding contribution in the field of agriculture Engineering

Administrative experience

S. No.	Institution	Post held & nature of work	Nature of Duties	Years		Total exp
				From	To	
1.	College of agriculture, Jobner	In-charge, Deptt of Agril Engg	Administrative responsibility to the department day to day assessment of Deptt	Oct 09, 2015	Till date	7 years 01 month
2.	SKN AgrilUniv, Jobner	In-charge, Tech Central vehicle pool	Administrative responsibility & day to day assessment of pool office	Dec 18, 2015	Till date	07 year 07 months
3.	SKN AgrilUniv, Jobner	Technical expert	Member of all Tender committee at university level and check technical specifications	Feb 0, 2017	Till date	5years 10 months
4.	SKN AgrilUniv, Jobner	In-charge Central vehicle pool	Administrative and DDO responsibilities	May 1, 2017	Till date	05years 07month

Research Project Running / Handled:

S. No.	Name of project	Year of Completion	Capacity	Funding Agency	Status	Amount (Lac)
1.	Establishment of agricultural machine testing center	2025-26	Principal Investigator	RKVY	running	114.69
2.	Center of excellence to use of artificial intelligence in agriculture	2023	Co-P.I.	RKVY	Completed	156.23
3.	Augmentation of entrepreneurship for rural people through processing	2019-20	Principal Investigator	RKVY	Completed	56.01
4.	Validation and PHT of Dragon fruits	2020-21	Co-P.I.	RKVY	Completed	90.00
5.	Establishment an Agro Processing centre	2013	Investigator	ICAR	Completed	AICRP on PHT budget
6.	Adopted trail on improved post harvest equipment/technology at other centre / organization	2013	Investigator	ICAR	Completed	AICRP on PHT budget
7.	Development and utilization of value added products of Aloe vera and Aonla	2014	Investigator	ICAR	Completed	AICRP on PHT budget

List of publications

Research Paper published in International Journal

: 05

Authors	Title	Journal
Upendra Singh, S.K. Jain, Anila Doshi, H.K. Jain and Vijay Kumar	Effect of pretreatments on drying characteristics of button mushroom	<i>International Journal of Food Engineering</i> , Vol.4, issue 4, article 5, 2008. pp. 1-21.
Singh Sweta, Vishal K, Upendra Singh and B.R.Singh	Effects of characteristics on drying fenugreek leaves and their studies during storage periods	<i>International Archive applied sciences and technology</i> . Vol. 8 (2) June 2017:47-50. NAAS Rating : 4.45
Anuj Yadav, Singh Upendra, Nagda Neha and Ashwani Kumar	Aonla, Physico-Chemical and Microbial Quality during storage-A review (ISSN 2321-2845)	<i>International Research journal of chemistry (IRCJ)</i> , Vol 18 (2017): 14-21. NAAS Rating : 4.32
Anuj Yadav, Singh Upendra 2021	Post-Harvest losses for Potato during transportation and storage (2456-1797)	<i>International journal of Agricultural Invention</i> . Vol6 (1),pp 80-84
Kumar V,Singh CS,Bakshi S,Kumar S, Yadav SP, Al-Zamani ZAS, Kumar P, Singh U, Meena KK, Bunkar DS and Paswan VK (2023)	Physicochemical and bioactive constituents, microbial counts, and color components of spray-dried <i>Syzygium cumini</i> L. pulp powder stored in different packaging materials under two controlled environmental conditions	<i>Frontiers in nutrition</i> , (2023) pp1-11 ISSN:2296-889X,JRNID:F103, NAAS Rating :11.0

Research Paper published in National Journal

08

S. K. Goyal, I.M. Mishra, Upendra Singh and M.R. Verma	Fuel Consumption Pattern of Tractor-Implement Systems at Part Loads Under Different field conditions (ISSN 0256-6524)	<i>Journal of Agricultural Engg.</i> July-September, Vol. (43) 2006, pp. 66-70. NAAS Rating : 5.59
Upendra Singh, S.K. Jain, R.C. Verma, Anila Doshi and M.K. Jaipal (2007)	Dehydration Characteristics and Quality Analysis of Button Mushroom slices (<i>Agaricus bisporus</i>) (ISSN 0970-2962)	<i>Agricultural Engineering Today</i> , Vol. 31(3 & 4) 2007, pp. 43-46. NAAS Rating : 5.30
Upendra Singh, S. K. Jain, Anila Doshi and R.C. Verma	Tray Drying of Button Mushroom (<i>Agaricus bisporus</i>) (ISSN 0970-6194)	<i>Beverage & Food World</i> , Vol. 34 (2007), pp. 20-22.
Upendra Singh, Jitendra kumar and M.K. Jaipal	Manufacture of Biscuits Using Various Levels of Jaggery as a Additives (ISSN 0970-6194)	<i>Beverage & Food World</i> , Vol. 35 (2008), pp. 58-59.
Upendra Singh, N.S. Rathore, L.K. Murdia and V.D. Mudgal	Spices and current trends of processing (ISBN 81-87744-006-215)	Proceedings of National Seminar on “Emerging Trends in Spice Processing and Its Impact on Rural Economy” (2011)
S. Balasubramanian, Paridhi Gulati and Upendra Singh	Foam Mat Drying-A Review (ISSN 0970-6194)	<i>Beverage and Food World</i> , vol 39 (3) 2014. pp. 55-60
Upendra Singh and R.C. Verma	Textural characteristics of guava at different stage of maturity (ISSN 2394-5168)	<i>South Asian J. Food Technology. Environ.</i> ,2016 2 (2) : pp 354-360
Anuj Yadav, Nagda Neha and Singh Upendra,	Effect of Pretreatments, Drying Methods on Mushroom- A review	<i>Progressive agriculture</i> , (2017). VOL 17-2 Page 274-78.

Book Published

03

- **Question Bank on Dairy and Food Technology (2010)** by Dr. Upendra Singh, Dr. L. K. Murdia and Dr. S. K. Goyal, **Publisher:** Jain Brother, New Dehli, (ISBN 978-81-8360-149-8).
- **Hkkjrh; —f"k ds vk/kqfud vk;ke (2015)** by Dr. Rajesh Kumar Goyal, **Dr. Upendra Singh**, Prabha and Mamta, **Publisher:** Poddar Prakashan, Tara Nagar, Chhiturpur, BHU, Vranasi (U.P.) (ISBN 978-93-84215-67-5).
- **Hkkjrh; ifj-'; esa —f"k (2016)** by **Dr.Upendra Singh & Dr.S.K.Goyal** **Publisher:** Poddar Prakashan, Tara Nagar, Chhiturpur, BHU, Vranasi (U.P.) **awarded by Hon'ble President of India.** (ISBN 978-93-84215-95-8).

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Booklet

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Special achievement:

1. Drone Certified pilot by DGCA (Directorate General of Civil Aviation)
(Certificate No. IND-W-B24-148).
2. Master Trainer: Ministry of Food Processing Industries, Government of India (MOFPI).
TOMT 108, Date of Issue : 7/8/2021 -7/8/2023

Laboratory Manuals Published

S.N	Authors Name	Year	Manual Name	Publisher
1	Er. Upendra Singh Dr. L. K. Murdia and Dr. N. S. Rathore	2006	Laboratory manual in Dairy and Food Engineering Heat Transfer	Department of Dairy & Food Engg., CDFST, MPUAT, Udaipur (Raj)
2.	Er. Upendra Singh Dr. L. K. Murdia and Dr. N. S. Rathore	2008	Laboratory manual in Dairy and Food Engineering Thermodynamics	Department of Dairy & Food Engg., CDFST, MPUAT, Udaipur (Raj)
3.	Dr. L. K. Murdia Dr. Upendra Singh and Dr. N. S. Rathore	2011	Laboratory manual in Dairy and Food Engineering Fluid Mechanics	Department of Dairy & Food Engg., CDFST, MPUAT, Udaipur (Raj)
4.	Dr. Upendra Singh Dr. L. K. Murdia and Dr. N. S. Rathore	2011	Laboratory manual in Dairy and Food Engineering Dairy Processing Engineering	Department of Dairy & Food Engg., CDFST, MPUAT, Udaipur (Raj)
5.	Dr. Upendra Singh, Dr. L. K. Murdia and Dr (Mrs) Maya Choudhry	2012	Laboratory manual in Dairy and Food Engineering Instrumentation and process control	Department of Dairy & Food Engg., CDFST, MPUAT, Udaipur (Raj)
6.	Er Mangal Kabra, Dr. Upendra Singh, Dr. L. K. Murdia and Dr (Mrs) Maya Choudhry	2012	Laboratory manual in Computer Programming	Department of Dairy & Food Engg., CDFST, MPUAT, Udaipur (Raj)
7.	Dr. Upendra Singh	2016	Practical manual – Fundamentals of Soil and Water Conservation Engineering (AENGG-4121)	Directorate of Human Resource Development, SKNAU, Jobner, Jaipur (Raj)
8.	Dr. Upendra Singh	2016	Practical manual – Protected Cultivation and Post Harvest Technology (AENGG-4311)	Directorate of Human Resource Development, SKNAU, Jobner, Jaipur (Raj)
9.	Dr Sachin Wandkar Vilas, Dr Upendra Singh, Dr L R Yadav and Dr C.D.Mishra	2020	Practical manual – Farm Power and Machinery (AGENGG-211)	Department of Agriculture Engineering, SKNCOA, Jobner, Jaipur (Raj)
10	Dr Sachin Wandkar	2020	Practical manual – Renewable	Department of Agriculture

Vilas, Dr Upendra Singh and Dr C.D.Mishra **Energy and Green Technology** Engineering, SKNCOA, (AGENGG-221) Jobner, Jaipur (Raj)

11 **Dr. Upendra Singh and Dr Sachin Vilass Wandkar** 2021 Practical manual – **Introductory Soil and Water Conservation Engineering** (AGENGG-121) Department of Agriculture Engineering, SKNCOA, Jobner, Jaipur (Raj)

12 **Dr. Upendra Singh and Dr Sachin Vilass Wandkar** 2021 Practical manual – Protected Cultivation and Secondary Agriculture (AGENGG-321) Department of Agriculture Engineering, SKNCOA, Jobner, Jaipur (Raj)

(i) **Book Chapter**

1. **Singh. Upendra, Ram C., Gaur. I. and Kumar. M. 2016.** Agriculture Processing in India. Indian Agroculture and Farmers. ISBN:978-93-84215-53-8. Poddar Publications, Varanasi (U.P.) pp 145-148.
2. **Gaure. Illa, Goyal. S.K., Singh. U., and Munesh. 2016.** Agriculture Processing in India. Indian Agroculture and Farmers. ISBN:978-93-84215-53-8. Poddar Publications, Varanasi (U.P.) pp 149-155..
3. **Neha Nagda, Singh Upendra, Yadav Anuj. 2020.** Food Production, Food Distribution and Nutrition Status. Daya Publishing House: a Astral International Pvt Ltd. New Delhi. pp 29-40
4. **Singh. Upendra, Amit Kumar, S.K. Goyal. 2020.** Physical Properties of Foods. Engineering Properties of Agricultural Produces. New India Publishing Agency (nipa). Pp 139-150

Hindi article

1. Upendra Singh, Ghajanand nagal, Rahul Bhardwaj, Amit kumar yadav 2016. **XokjikBk çlaLdj.k (vk; dk uttam sadhan)** published in HaritKranti, 39(02): 08,
2. Raju kumawat, saroj choudhary and Upendra Singh, 2017. Sirohi bakri palan avm sasthya prabandhan, published in □□□□□□ □□□□, (5): 3
3. Paru pawar, mamta kumawat, shalini sharma, and Upendra Singh, 2017. Plastic mulching ki bagwani me upyogita, published in □□□□□□ □□□□, (4): 5

- Life Membership of Scientific Societies** : **06**
- 1 Life member of Indian Society of Agricultural Engineering (ISAE) **LM-10381**
 - 2 International Association of Engineers, **Member number 279549**
 - 3 Life member of **AFST/LM/3-2020/ZON/3439**
 4. Life member of Scientific Agriculture Research Society (SAARS)
SAARS/INT/LM- 003/2016
 5. Life Member of SWEFT, Meerut **SWEFT/SAJFTE/LM-028**
 6. Life Member of Society of Biological Sciences and Rural Development (**SBSRD**)
L.M. 516

International Conference / Seminar attended : **03**

Paper presented and attended Conferences / Seminars / Symposia : **24**

Trainings / Workshop attended : **07**

- 1 One month practical **summer training** at Northern Region Farm Machinery Training & Testing Institute, Hissar (Har.), during 03.07.2000 to 31.07.2000.
- 2 One month practical **summer training** at Kanpur Dugdh Utpadak Sahakari Sangh Ltd., Kanpur (UP), during 01.07.2001 to 31.07.2001.
- 3 One week training on “Production of Soybean” Soybean Processing Centre CIAE Bhopal (M.P), during 11.10.2004 to 16.10.2004.
- 4 Two days workshop on “Processing of Underutilized Fruits” sponsored by National Agricultural Innovation Project, component II, ICAR, New Delhi & Organized by C.D.F.S.T, M.P.U.A.T., Udaipur during 26. 03. 2010 – 27. 03. 2010.
- 5 Four days training on “Project Planning and management” at State Institute of Agriculture Management sponsored by MANAGE, Hyderabad, during 16-19 December 2013.
- 6 National Workshop on Indian Agriculture-Problems, Issues and Reforms (IAPI&R-2016) 06th March, 2016 Venue: BHU-Krishi Vigyan Kendra, Barkachha, Mirzapur (U.P.).
- 7 Four days workshop on “PRA Tools and Techniques for SREP Development” sponsored by Govt. of India (Ministry of Agriculture), Extension Education Institute (Western Region) AAU Campus, Anand-388110 (Gujarat) during 06. 12. 2016 – 09. 12. 2016.

International conference attended: **03**

- 1 International Conference on **Post-Harvest Management and Valorization of Agri – Horticultural Produce and Exhibition** during 19. 02. 2010 to 20. 02. 2010 at New Delhi.
- 2 International seminar on **Extrusion process and application** during 18.06.2010 to 21.06.2010 at Udaipur (Rajasthan).

- 3 International Conference on “Issues for climatic change, Land Use Diversification and Biotechnological Tools for Livelihood Security (ICLDBT -2021)” held on 8.10.10 at S.V.P.U.A. & T., Meerut (UP).

Place:

Date:

(Signature of the Applicant)



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**International R & D training course on “Agricultural Engineering & Technologies”
Ministry of Agriculture & Rural Development, Israel during Oct 14 –Nov 02,2018**