

## **CURRICULUM VITAE**

1. Name : **Dr. MAHENDER SINGH**
2. Father's Name : Sh. Man Singh
3. Date of Birth : 04-05-1970
4. Permanent Address : Dr. Mahender Singh  
S/o Sh.Man Singh V.P.O. Niyana,  
Dist. & Tehsil Hisar-125 001 (Haryana.)
5. E-mail Address & phone No: [msganghas@yahoo.co.in](mailto:msganghas@yahoo.co.in), [drmahendersinghg@gmail.com](mailto:drmahendersinghg@gmail.com)  
9419232209,09419101478, 0191-2263891 (O)
6. Marital Status : Married
7. Educational Qualification: Ph.D in Agricultural Meteorology
- 8. Research Thesis Title:**
- (i) **Ph.D (Agricultural Meteorology):**“Development of response functions and yield model in wheat under environmental stress by using ground truth radiometer.”
- (ii) **M.Sc. (Agricultural Meteorology)** “Analysis of Rainfall Characteristic for crop planning in arid zone of Haryana.”

### **A. Research**

#### **1. Project handled**

##### **Involvement / monitoring of Research Projects/Schemes**

<b>S. No</b>	<b>Name of project</b>	<b>Year in involvement</b>	<b>Funding agency</b>
1.	All India Coordinated Research Project on Agrometeorology Chatha, Jammu Centre ( <b>as PI</b> )	2016 – continue	ICAR-CRIDA, Hyderabad
2.	AICRPAM- NICRA, Chatha, Jammu Centre ( <b>as PI</b> )	-do-	-do-
3.	Gramin Krishi Mausam Seva (GKMS), AMFU, Chatha & Rajouri as <b>Principal Nodal Officer</b>	-do-	IMD, MOES, New Delhi
4.	FASAL (Forecasting Agricultural Output using Space, Agrometeorology and Land based observations) funded by India Meteorological Department, Ministry of Earth Sciences, Govt. of India, New Delhi <b>as PI</b>	-do-	IMD, MOES, New Delhi
5.	All India Coordinated Research Project on Agrometeorology Hisar Centre ( <b>as Co- PI</b> )	2014 -15	ICAR
6.	AICRPAM- NICRA, Hisar Centre	2014-15	ICAR
7.	All India Coordinated Research Project for Dry Land Agriculture ( <b>as PI</b> )	2012-14	ICAR
8.	National Initiative on Climate Resilient Agriculture- Both On-station and On-farm- <b>as PI</b>	2012-14	ICAR-CRIDA, Hyderabad
9.	All India Coordinated Research Project on Agrometeorology. ( <b>as Co- PI</b> )	2003-12	ICAR
10.	Integrated Agromet Advisory Services ( <b>Technical Officer</b> )	2003-12	IMD, New Delhi
11.	Collaborative programme on soil moisture observation and Evapotranspiration with IMD, Pune. ( <b>as Liaison Officer</b> )	2007-12	IMD
12.	FASAL(Forecasting Agricultural Output using Space, Agrometeorology and Land based observations) funded by India Meteorological Department, Ministry of Earth Sciences, Govt. of India, New Delhi <b>as Co-PI</b>	2010-12	IMD
13.	Estimation of crop water requirement for SKUAST_J research farm at Chatha <b>as Co-PI</b>	2011-13	SKUAST-J

## List of Publication national & international journals according to NAAS rating

Year of Pub.	Name of Authors	Title of Research Paper	Journal Name & Volume No.	Page No	NAAS Rating
2012	<b>Singh, Mahender</b> and Khushu, M.K.	Growth and yield prediction of wheat in relation to agroclimatic indices under irrigated and rainfed condition	Journal of Agrometeorology 14 (1)	63-66	6.6
2012	Khushu, M.K; <b>Singh, Mahender</b> , Sharma, V; Sharma, C. and Koushal, S.	Temperature trends across the different zones of Jammu region	Journal of Agrometeorology 14 (1)	85-87	6.6
2012	Gupta Vikas, <b>Singh Mahender</b> , Kumar Anil, Kumar Jai, Nandan Brij and Singh B. N. and Jamwal B.S.	Screening of post-emergence herbicides in Chickpea ( <i>Cicer arietinum</i> ) under rainfed conditions of Jammu.	<i>Legume Research</i> <b>35</b> (4):	320-326	6.6
2013	<b>Singh, Mahender</b> ; Khushu, M.K; Gupta, V; Kumar, J; Salgotra, R.K. and Dadhich, S.M.	Efficient crop planning in rainfed areas of sub tropical zone of J & K through weather based forecasting	Journal of Agrometeorology 15 (1)	170-173	6.16
2013	Gupta Vikas, <b>Singh Mahender</b> , Kumar Jai, Singh B. N., Kumar Anil and Singh Brinder	Agrometeorological indices for predicting growth and yield of chickpea for use in agromet advisory services.	<i>Journal of Agrometeorology</i> <b>15</b> (Special Issue-1)	174-177	6.18
2013	Kour Manpreet, Singh K. N., <b>Singh Mahender</b> , Thakur N. P., Kachroo Dileep and Sharma Rohit.	Assessment of climate change and its impact on growth and yield of wheat under temperate and sub-tropical conditions	<i>Journal of Agrometeorology</i> , <b>15</b> (2)	142-46	6.18
2013	Gaganpreet Kour, V K Wali, Parshant Bakshi, Amit Jasrotia and <b>M K Khushu</b>	Influence of different irrigation intervals on growth and physical characteristics of peach ( <i>Prunus persica</i> )	<i>Indian Journal of Agricultural Sciences</i> <b>83</b> (7)	739-44	6.6
2013	<b>M.K. Khushu</b> , Charu Sharma, Sanjay Koushal, Rajeev Sharma B. Bapuji Rao and V.U.M. Rao	Simulation of phenology, growth and yield of maize in a humid sub-tropical region of India using CERES-Maize model	Journal of Agrometeorology 15 (Sp. Issue II)	222-26	6.18
2013	Gaganpreet Kour, V.K. Wali, <b>M.K. Khushu</b> , Parshant Bakshi, Akash Sharma And Charu Sharma	Studies on the irrigation scheduling in low chilling cultivars of peach under subtropical conditions	Journal of Agrometeorology 15 (Sp. Issue II)	212-16	6.18
2013	Charu Sharma, M.K.Khushu, Sanjay Koushal, Rajeev Sharma and Meenakshi Gupta	Assessment of impact of elevated temperature and CO <sub>2</sub> on growth and yield of maize crop using DSSAT model	Journal of Agrometeorology 15 (Sp. Issue I)	81-84	6.18
2014	Gupta Vikas, <b>Singh Mahender</b> , Kumar Anil, Sharma B.C and Kher Deepak.	Effect of different weed management practices in urd bean ( <i>Vigna mungo L. Hepper</i> ) under sub tropical rainfed condition of Jammu, India.	<i>Legume Research</i> <b>37</b> (4)	424-429	6.09
2014	Gupta Vikas, <b>Singh Mahender</b> , Kumar Jai, Kumar Anil and Singh, B.N.	Performance of different weed management treatments on heat use efficiency of chickpea crop ( <i>Cicer arietinum</i> ) under rainfed condition of Jammu.)	<i>Indian Journal of Agricultural Sciences</i> . <b>84</b> (9)	1082-87	6.18
2014	Gupta, V., Sharma, Anil., Kumar, Jai, Abrol, V., Singh, B. and <b>Singh, Mahender</b>	Effect of integrated nutrient management on growth and yield of maize ( <i>Zea mays L.</i> ) –Gobhi sarson ( <i>Brassica napus L.</i> ) cropping system in sub tropical region under foothills of North –West Himalayas.	Bangladesh Journal of Botany 43(2)	147-155	6.38
2017	Meenakshi Gupta, Charu Sharma, Rajeev Sharma, Vikas Gupta And M. K. Khushu	Effect of sowing time on productivity and thermal utilization of mustard ( <i>Brassica juncea</i> ) under sub-tropical irrigated conditions of Jammu	<i>Journal of Agrometeorology</i> . 19 (2)	137-141	6.36
2017	Meenakshi Gupta, Charu Sharma, B. C. Sharma, and Mahender Singh	Influence of weather conditions on phenology, thermal indices and yield of wheat cultivars under sub-tropical	Journal of Agrometeorology 19 (Sp. Issue)	92-97	6.36

		conditions of Jammu			
2017	Charu Sharma, <b>Mahender Singh</b> , Rohit Sharma and Veena Sharma	Analysis of rainfall characteristics for crop planning under low altitude sub tropical agro ecological zone of Jammu region	Journal of Agrometeorology 19 (Sp. Issue)	60-66	6.36
2017	Disket Dolkar, Parshant Bakshi, V.K. Wali, M.K. Khushu, <b>Mahender Singh</b> , and Rafiq Ahmad Shah	Effect of climate variability on the yield and the quality of kinnow mandarin.	Journal of Agrometeorology 19 (Sp. Issue)	67-74	6.36
2018	<b>Mahender Singh</b> , Charu Sharma Lobzang Stanzen Rohit Sharma and B.C. Sharma	Rainfall variability over Jammu region in India	Journal of Agrometeorology 20 (2)	180-181	6.40
2019	Vikas Gupta; Daleep Kachroo; Meenakshi Gupta; B.C. Sharma; Anil Kumar; R. Punia; <b>Mahender Singh</b> ; Neeraj Gupta and Monica Banotra	Different alternate land-use systems for livelihood security under sub-tropical conditions of lower shivaliks hills.	The Pharma Innovation Journal: 8 (3)	458-505.	5.03
2020	Brinder Singh; Anil Kumar; Vikas Gupta, Vikas Abrol ; A.P. Singh; Jai Kumar; <b>Mahender Singh</b> ; Hemant Dadhich and Permendra Singh	Effect of organic and inorganic nutrients on pearl millet (Pennisetum glaucum)- gobhi sarson (Brassica napus var. napus) cropping sequence.	Indian Journal of Agricultural Sciences; 90(2)	302-306	6.25
2020	P. Vijaya Kumar, S.K. Bal, R.K. Dhakar, M.A. Sarath Chandran, A.V.M. Subba Rao, V.M. Sanddep, V.P. Pramod, S.N. Malleswari, G. Sudakar, N.S. Solanki, H.S. Shivaramu, M.M. Lunagarla, K.K. Dakhore, V.M. Lodhe, <b>Mahender Singh</b> , Pragyana Kumari, S. Subbulakshmi, M.H. Manjunatha and N.J. Chaudhary	Algorithms for weather –based management decisions in major rainfed crops of India: Validation using data from multi locations field experiments	<i>Agronomy Journal</i>	01-15	7.81
2020	<b>Mahender Singh</b> , Charu Sharma, B.C. Sharma, R.K. Srivastava, Sushmita M. Dadhich, J.P. Singh and Vikas Gupta	Rainfall probability analysis for crop planning of Jammu region	<i>Journal of Agrometeorology. Volume 22 special issue (June 2020).</i>	24-32	6.64
2020	<b>Mahender Singh</b> , Charu Sharma, B.C. Sharma, Vishaw Vikas and Priyanka Singh	Weather based yield prediction model at various growth stages of wheat crop in different Agro Climatic Zones of Jammu region.	<i>Journal of Agrometeorology. Volume 22 special issue (June 2020).</i>	80-84	6.64
2020	Reena, Amandeep Kaur, <b>Mahender Singh</b> , B.K. Sinha, Anil Kumar and Sahid Ahmad	Impact of Abiotic factors on population dynamics of <i>Bacterocera dorsalis</i> Hendel and <i>Bacterocera zonata</i> (Saunders) at different ecological zones in NW plains of India	<i>Journal of Agrometeorology 22 (3)</i>	250-257	6.64
2020	Vikas Gupta, Meenakshi Gupta, <b>Mahender Singh</b> and B C Sharma	Thermal requirement for phenophases and yield of wheat varieties under various sowing environments and nitrogen levels in sub-tropical region of Jammu	<i>Journal of Agrometeorology 22 (3)</i>	170-177	6.64
2020	Reena, M. Sharma, S. Jamwal, Anil Kumar, <b>Mahender Singh</b> and B.K. Sinha	Managing chickpea wilt <i>Fusarium oxysporum</i> through use of biorationals.	Legume research 45(3)	452-457	6.34
2020	Vikas Gupta, Meenakshi Gupta, Rajeev Bharat, <b>Mahender Singh</b> and B C Sharma	Performance of wheat ( <i>Triticum aestivum</i> ) varieties under different thermal regimes and N-levels	<i>Indian Journal of Agricultural Sciences. 90(4)</i>	775-79	6.25
2021	Sultan Singh, A. K. Gupta,	Growth and yield of basmati rice	Mausam, 72, 2	25-	6.37

	<b>Mahender Singh</b> , N. P. Thakur And Lalichetti Sagar	under different crop establishment methods and sowing environment		434	
2021	Vijaya Kumar, P.; Bal, S.K.; Dhakar R.; Sarath Chandran, M.A.; Subba Rao, A.V.M.; Sandeep, V.M.; Pramod, V.P.; Malleswari, S.N.; Sudhakar, G.; Solanki, N.S.; Shivaramu, H.S.; Lunagaria, M.M.; Dakhore, K.K.; Lodhe, V.M.; <b>Singh, Mahender</b> ; Kumari, Pragyan; Subbulakshmi, S.; Manjunatha, M.H. and Chaudhary, N.J.	Algorithms for weather –based management decisions in major rainfed crops of India: Validation using data from multi locations field experiments.	<i>Agronomy Journal</i> ,	1-15	7.81
2021	Kumar Yogesh; Raghuvanshi Mahender Singh; Fatima Kaneez; Nain Manjeet Singh; Manhas Jasbir Singh; Namgyal Dorje; Kanwar Maheshwar S; Sofi Mehrajuddin; <b>Singh Mahender</b> and Angchuk Sonam. 2021..	Impact assessment of weather based agro-advisory services of Indus plain farming community under cold arid Ladakh.:	<i>MAUSAM</i> , <b>72</b> (4)	897-904	6.37
2021	Kumar, Jai; Singh, A.P.; Kumar, Anil; Gupta, Vikas; Singh, Brinder; <b>Singh, Mahender</b> ; Singh, Permendra; Reena and Jamwal, Sonika. 2021.	. Rainfall characteristics and probability analysis for crop planning of Samba district of Jammu and Kashmir (U.T.), India.	<i>Agricultural Mechanization in Asia, Africa and Latin America</i> .52(03):	4561 - 4567	6.17
2021	Gupta, Vikas; Gupta, Meenakshi; Bharat, Rajeev; <b>Singh, Mahender</b> ; SarabdeepKourand Sharma, B. C.	Effect of sowing environments and N-levels on wheat varieties under irrigated region of Jammu.	<i>Indian Journal of Agricultural Sciences</i> , 91 (4):	515–20.	6.21
	Singh A.P.; Gupta, Vikas, Singh Brinder; Kumar, Jai; <b>Singh Mahender</b> ; Abrol, Vikas and Singh Permendra. 2022.	Evaluation of cropping systems for livelihood security of farmers in rainfed sub-tropics of Jammu.	<i>Range Mgmt. &amp; Agroforestry</i> ,43 (1):	94-101	6.37
2022	Bhagat,Rakshit; <b>Singh, Mahender</b> and Sharma, B C.	Growth and productivity of gobhi sarson ( <i>Brassica napus</i> ) cultivars under diverse sowing environments. Indian	<i>Journal of Agricultural Sciences</i> , 92 (10):	1202 - 1207	6.37
2022	Gupta, Vikas; Gupta, Meenakshi; Sandhu, S. S.; <b>Singh, Mahender</b> ; Kour, Sarabdeep; Bharat, Rajeev; Singh, A. P.; Singh, Permendra and Singh, Brinder.	Evaluation of wheat varieties and their validation through CERES-Wheat model under lower foothills of Shi valik range of N-W Himalayas.	<i>Agricultural Mechanization in Asia (AMA)</i> , 53(02):	6051 - 65.	6.14
2022	Vishal Raina, Amarjit K Nath,Satish Sharma, Neeaj Kotwal,Rohit Sharma, Manoj KumarSharma, Sanjeev Kumar, VijayKumar, <b>Veena Sharma</b> , Mahital Jamwal, Rakesh Kumar and Pardeep Wali.	Promising Pureline Selection of Bhaiderwah Rajmash ( <i>Phaseolus Vulgaris</i> ) and Its Molecular Characterization.	<i>AgriculturalMecha nization in Asia, Africa and Latin America</i> .53 (04):	7535 - 7543	6.14
2022	Vijay Kumar, Manoj Kumar,Shalini Khajuria, <b>Veena Sharma</b> , Monika	Soil Aggregateand Organic Carbon Fractions inthe Foothill Himalayas under Different Land use Systems.	<i>Agricultural Mechanization in Asia, Africa and Latin</i>		6.14

	Banotra and Rohit Sharma.		America.53(04)		
2023	Bhagat,Rakshit; <b>Singh, Mahender</b> and Sharma, B C.	Crop weather relationship in oilseed rape (Brassica napus) for north-west foothills of Himalayas, India.	Indian Journal of Agricultural Sciences, 93 (4) :	409–414	6.37

### Book Chapters

S.No.	Year	Authors	Title
1.	2006	M.K.Khushu, Vikas Gupta, A.K.Tiku, <b>Mahender Singh</b> and Naseer-U-Rahman	Validation of Campbell Diez model in maize for use in crop management in hill region of Jammu. In Resource Management for North Western Himalayas
2.	2007	M.K.Khushu, <b>Mahender Singh</b> , A.K.Raina, Vikas Gupta, and A.S.Bali.	Rainfall analysis of Jammu region for use in Agromet Advisory Services. In National Resource Management for Sustainable Hill Agriculture
3.	2010	M.K.Khushu, <b>Mahender Singh</b> & Anil Sharma	Impact of Climatic Change on Agriculture over Jammu & Kashmir (Eds VUM Rao, G.S.L.H V. Prasada Rao & G.G.S.N.Rao)
4.	2010	<b>Mahender Singh</b> , Pursotum Kumar Sharma and Brij Nandan	Rain water management for efficient crop planning in rainfed areas. (Eds Sharma B.C, Sharma, Anil. Sharma, Vikas )
5.	2019	<b>Mahender Singh</b> , Charu Sharma and Bharat Singh Ghanghas	Climate Change Impacts in Agriculture over Jammu and Kashmir. In Climate Change and Agriculture. Ed. GSLHV Prasada Rao, V.U.M. Rao, DVS Rao. Publisher New India Publishing Agency. New Delhi. Pp.315-340.
6.	2019	<b>Mahender Singh</b> , Rohit Sharma, Charu Sharma and Bharat Singh Ghanghas	Weather Forecasting and Advisory: An aid for Sustainable Agricultural Transformation. In Integrated Transformation of Agriculture. Ed. Jag Paul Sharma. Publisher New India Publishing Agency. New Delhi. Pp.345-370.
7.	2019	Veena Sharma, <b>Mahender Singh</b> , Vikas Sharma, Vishaw Vikas and Narender Panotra	Remote Sensing: A vital approach for transforming Indian Agriculture. In Integrated Transformation of Agriculture. Ed. Jag Paul Sharma. Publisher New India Publishing Agency. New Delhi. Pp.391-406.
8.	2023	<b>Mahender Singh</b> , Brij Nandan, Rohit Sharma and Monika Banotra.	Importance of Weather Parameters in Natural and Organic Farming. <i>In: Transforming Agriculture through organic and Natural Farming.</i>

### Manuals and Technical/Scientific reports

S.No	Year	Authors	Title	Publisher
1.	2002	Yadav, M.; Bishnoi, O.P.; Ram Niwas and <b>Singh, Mahender</b>	Simulation of crop response to environmental stress on wheat using remote sensing technique	HARSAC, CCSHAU Campus, Hisar, vide no.HAR SAC/TR/01/2002
2.	2011	Sharma, Neetu; <b>Singh, Mahender</b> , Kumar, Anil and Sharma, B.C	Manual of Rainfed Agriculture	State Agricultural Management and Extension Training Institute, Directorate of Ext.Edu., SKUAST_J

3.	2014	Singh, D; <b>Singh, Mahender</b> ; Singh,Raj; Singh, S. and Rao, V.U.M	Climatic variability and its periodicity at Hisar (Haryana)	AICRP on Agrometeorology, Department of Agril.Meteorology, CCSHAU, Hisar
4.	2015	Singh,D; Mehnaj,TA <b>Singh, Mahender</b> ; Singh, S; Singh, Raj and Rao, V.U.M	El Nino and SW Monsoon dynamics vis-a- vis agricultural productivity in Haryana, India	AICRPAM-NICRA Centre, Department of Agril.Meteorology, CCSHAU, Hisar
5.	2015	Kour, Sarbadeep, Singh, Mahender & Gupta, Meenashi	Course manual on Disaster Management	
6.	2017	<b>Singh, Mahender</b> , Sharma, Rohit, Sharma, Charu, Sharma, Rajeev, Sharma, Veena & Gupta, Vinod	Meteorological Handbook for Jammu Region.	Agrometeorology Section,SKUAST-J,Chatha,Jammu
7.	2018	<b>Singh, Mahender</b> , Sharma, Charu, Sharma, B.C.Sharma Rajeev, Lobzang Stanzen, P.Vijaya Kumar & S.K.Bal.	Climatic Variability/Change in Jammu Province of J&K State	Published by Agro meteorology Section, of SKUAST-J, Chatha, Jammu.
8.	2020	<b>Singh, Mahender</b> , Sharma, Rohit, Veena Sharma and B.C.Sharma, 2020..	Agromet Advisory Services for Planning Farm Operations in Jammu Region	Published by Agrometeorology Section, of SKUAST-J, Chatha, Jammu.

## Paper Published Proceedings/Seminars/Conferences/winter/summer schools

- Bishnoi, L.K; Sewhag, M. and **Singh, Mahender**.2002. Role of cultural practices in IPM in Cotton. Proceeding in State level training course on IPM cotton at IATTE, Kisan Asharm CCS HAU, Hisar from Nov.12-16, 2002.pp:63-65.
- Bishnoi, L.K; Sharma, A.P; Lather, B.P.S; **Singh, Mahender** and Sewhag, M.2002."Role of abiotic factors on Cotton. Productivity and how to manage them. Proceeding of Crop improvement for Tolerance to abiotic stresses. Deptt. Pl. Breeding CCS HAU, Hisar on Jan.4, 2003.pp: 130-134.
- Khushu, M.K.and **Singh, Mahender**. 2004. Recent techniques for measuring plant water status Porometer and Infra Red Thermometer. In Summer school on Sustainable and Integrated Nutrient Management for North Western Himalayas from 27<sup>th</sup> Sept. to 17<sup>th</sup> Oct., 2004.pp.299-304.
- **Singh, Mahender** and Khushu, M.K. 2009.Recent trends in agro meteorological research for better agricultural planning. In ICAR sponsored winter school on “ Conservation farming through efficient use of resources to sustain livelihood of dry land farmers of North –West Himalayas” organized by Division of Agronomy SKUAST-J, Chatha, Jammu from 16<sup>th</sup> Jan. to 05<sup>th</sup> Feb.,2009.pp.321-324.
- Khushu, M.K and **Singh, Mahender**; 2009. Crop modeling for optimum climatic parameters for higher productivity in rainfed area. In ICAR sponsored winter school on “ Conservation farming through efficient use of resources to sustain livelihood of dry land farmers of North –West Himalayas” organized by Division of Agronomy SKUAST-J, Chatha, Jammu from 16<sup>th</sup> Jan. to 05<sup>th</sup> Feb.,2009.pp.318-320.
- Khushu, M.K; **Singh, Mahender**; Koul,V. and Rasid, G. 2009.Impact of climate change on Insect Pest current perspectives. Proceedings of summer school on “ Ecologically based integrated Pest Management under Eco fragile Hill Ecosystem” organized by Division of Entomology SKUAST\_ J from 14<sup>th</sup> July to 3<sup>rd</sup> Aug.,2009. pp 301-305.
- **Singh, Mahender** and Khushu, M.K. 2010. Acquaintance with automatic weather station and other state of art of meteorological instruments “Integrated Farming for High Hills” on 10<sup>th</sup> Feb.2010 organized by Division of Agronomy SKUAST-J, Chatha, Jammu from 05<sup>th</sup> to 25<sup>th</sup> Feb., 2010.
- Khushu, M.K. and **Singh, Mahender**, 2011.Agomet advisory services: Formulation and dissemination in Jammu. Proceedings of Training course on “Advanced production technologies for kharif cereal crops in Jammu division” organized by SAMETI, SKUAST-J, Chatha, Jammu. pp. 80-83.
- **Singh, Mahender** and Ram Niwas. 2015. Impact of weather parameters on growth and yield of wheat varieties sown under Different nitrogen levels and environments. 4<sup>th</sup> Jammu & Kashmir Agricultural Science congress on organized by SKUAST-J, Chatha, Jammu from 28<sup>th</sup> to 30<sup>th</sup> October, 2015; pp.254.
- **Mahender Singh**, Charu Sharma, Rajeev Sharma, Veena Sharma and B C Sharma (2016). Rainfall variability and its impact on different crops over Jammu region. National symposium-AGMET 2016, Climate Driven Food Production system: Agrometeorological Interventions. Dec 20-22, TNAU, Coimbatore.
- Charu Sharma, **Mahender Singh**, Rajeev Sharma and Veena Sharma, 2016. Analysis of rainfall characteristics for crop planning under low altitude sub-tropical agro-ecological zone of Jammu region. National symposium-AGMET 2016, Climate Driven Food Production system: Agrometeorological Interventions. Dec 20-22, TNAU, Coimbatore.
- Veena Sharma and Mahender Singh 2016. “Usability of weather forecast in issuing Agromet advisory” presented in International Agronomy Congress organized at IARI, ICAR, New Delhi from 22<sup>nd</sup> to 26 Nov.,2016.
- **Mahender Singh**, Rohit Sharma, Charu Sharma and B C Sharma 2017. Climate Change and its impact on Agriculture with special reference to Jammu region. National Seminar on Agrometeorology for Sustainable Development with special emphasis on Agrometeorological Practices for Climate Resilient Farming and Food Security held at CCS HAU, Hisar during 12-14 October, 2017. pp. 15

- **Mahender Singh**, Lobzang Stanzen, Charu Sharma and B C Sharma 2017. Effect of weather parameters on development of stalk rot disease and their influence on yield of maize cultivars. National Symposium on Ecologically Sustainable Plant Disease Management under Diversified Farming Situation held at SKUAST-Jammu, Main Campus Chatha (J&K) during 13-14 November, 2017. Pp. 83.
- **Mahender Singh**, Lobzang Stanzen, Charu Sharma, B C Sharma and Rohit Sharma 2018. Heat unit requirement of wheat cultivars sown under different environments in sub tropical region of Jammu. National Agronomy Congress-2018 on Redesigning Agronomy for Nature Conservation and Economic Empowerment held at GBPUAT, Pantnagar, Uttarakhand during 20-22 February, 2018. pp 359.
- **Mahender Singh**, Lobzang Stanzen, Veena Sharma, Charu Sharma, Rohit Sharma and B C Sharma. 2018. Influence of Weather Variables on Growth and Productivity of Wheat Crop in Subtropical Region of Jammu. National Conference on Innovative Technological Interventions for Doubling Farmers' Income (NaCITI - 2018) organized by Society for Integrated Development of Agriculture, Veterinary and Ecological Sciences (SIDAVES) held at SKUAST-J during 8-10<sup>th</sup> Feb., 2018. pp. 12/LWB.
- Veena Sharma, **Mahender Singh** and Rohit Sharma. 2018. Accuracy of Rainfall Forecast in Issuing Agromet Advisory for Low Intermediate Agro-climatic Zone of Jammu Region. National Conference on Innovative Technological Interventions for Doubling Farmers' Income (NaCITI - 2018) organized by Society for Integrated Development of Agriculture, Veterinary and Ecological Sciences (SIDAVES) held at SKUAST-J during 8-10<sup>th</sup> Feb., 2018. pp. 11/AGRI.
- Veena Sharma, **Mahender Singh** and Lobzang Stanzen. 2018. Verification of Medium Range Weather Forecast for Jammu District of J&K. National Conference on Innovative Technological Interventions for Doubling Farmers' Income (NaCITI - 2018) organized by Society for Integrated Development of Agriculture, Veterinary and Ecological Sciences (SIDAVES) held at SKUAST-J during 8-10<sup>th</sup> Feb., 2018. pp. 25/AGRI.
- Lobzang Stanzen, **Mahender Singh**, Charu Sharma, Veena Sharma and B.C. Sharma.2018. District Level Wheat Yield Forecasting based on Weather Variables in diverse Agro-Climatic Region of Jammu. National Conference on Innovative Technological Interventions for Doubling Farmers' Income (NaCITI - 2018) organized by Society for Integrated Development of Agriculture, Veterinary and Ecological Sciences (SIDAVES) held at SKUAST-J during 8-10<sup>th</sup> Feb., 2018. pp. 62/AGRI
- **Mahender Singh**, Charu Sharma, B.C. Sharma and Rohit Sharma (2021). Analysis of monthly temperature and rainfall trends for Kathua districts of Jammu region. In virtual National Conference on “Strategic reorientation for Climate Smart Agriculture” (V-AGMET-2021), organized by Association of Agrometeorologist, Anand and Punjab Agricultural University, Ludhiana from 17-19<sup>th</sup> March. 2021 Pp. - 283-286.
- **Singh, Mahender;** Banotra, Monika; Sharma, Charu; Sharma, B.C. and Sharma, Rohit (2022). “Yield forecasting of Wheat Crop using Statistical Model in five districts of Jammu Region in Union territory of Jammu and Kashmir” in 10<sup>th</sup> National Conference on Agriculture and More: Beyond 4.0. Organized by MOBILIZATION, New Delhi at Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir (SKUAST-K), Shalimar, Srinagar, Kashmir, (J&K) w.e.f. May 26-28, 2022.
- **Singh, Mahender;** Banotra, Monika; Sharma, Charu and Sharma, Rohit, 2022. Maize yield forecast by statistical model in J&K. In *IVth International Conference in Hybrid Mode on Innovative and Current Advances in Agriculture & Allied Sciences (ICAAAS-2022)* Organized by SSDAT Meerut in Collaboration with CSAUAT Kanpur; HPU Shimla; SKRAU Bikaner; BAU Ranchi; HNBGU Srinagar; HFRI Shimla; HASD Mandi & Astha Foundation, Meerut at Himachal Pradesh University, Summer Hill, Shimla (H.P.) India during 12-14 June 2022 .Pp 115.
- **Singh Mahender,S.K.Bal**, Charu Sharma, Monika Banotra, Rohit Sharma and Veena Sharma (2024). “Effect of weather parameters on growth and productivity of maize varieties under different sowing environments” in National Seminar on Smart Technologies for Sustainable Agriculture and Environment held at ICAR-CRIDA, Hyderabad from 22-23 February 2024.



## B. TEACHING:

### Course taught

- Associated in teaching courses of Under Graduate and Post Graduate in Division of Agronomy, SKUAST-J, Chatha, Jammu. List of course taught are as below:

#### 1) Disaster Management (PGS-506)

- I<sup>st</sup> Sem of 2019-20, PGS-506 (1+0)
- I<sup>st</sup> Sem of 2018-19, PGS-506 (1+0)
- I<sup>st</sup> Sem of 2016-17, PGS 506 (1+0)
- 2<sup>nd</sup> Sem of 2016 -17, PGS 506 (1+0)
- I<sup>st</sup> Sem of 2015-16 , PGS -506 (1+0)

#### 2) Agro meteorology and Crop Weather Forecasting (Agron 505)

- 2<sup>nd</sup> Sem of 2019-20 Agron 505 (2+1)
- 2<sup>nd</sup> Sem of 2018-19, Agron 505 (2+1)
- 2<sup>nd</sup> Sem of 2016 -17, Agron-505 (2+1)
- 2<sup>nd</sup> Sem of 2015-16, Agron-505 (2+1)

#### 3) Crop production and system modeling (Agron 603)

- 2<sup>nd</sup> Sem of 2016 -17, Agron-603 (2+1)
- 2<sup>nd</sup> Sem of 2019-20, Agron 603 (2+1)

#### 4) Principal and Practices of Organic Farming (Agron 513)

- I<sup>st</sup> Sem of 2015-16 Agron -513 (2+1)

#### 5) Principal of agronomy including Agril. Met (Agron 112)

- 2<sup>nd</sup> Sem of 2019-20, Agron 112 (2+1)
- I<sup>st</sup> Sem of 2018-19, Agron 112 (2+1)
- I<sup>st</sup> Sem of 2016-17, Agron 112 (2+1)
- I<sup>st</sup> Sem of 2015-16 Agron 112 (2+1)

#### 6) Environment Studies and Disaster Management (FOR- 112)

- I<sup>st</sup> Sem of 2021-22, FOR -112 (2+1)
- I<sup>st</sup> Sem of 2019-20, FOR -112 (2+1)
- I<sup>st</sup> Sem of 2018-19, FOR -112 (2+1)
- I<sup>st</sup> Sem of 2017-18, FOR -112 (2+1)

#### 7) Rain fed Farming (Agron 413)

- I<sup>st</sup> Sem of 2017-18, Agron 413 (1+2)

#### 8) Introductory Agrometeorology and Climate Change (Agron 223)

- 2<sup>nd</sup> Sem of 2021-22 Agron 223 (1+1)
- 2<sup>nd</sup> Sem of 2020-21 Agron 223 (1+1)
- 2<sup>nd</sup> Sem of 2019-20, Agron 223 (1+1)
- 2<sup>nd</sup> Sem of 2018-19 Agron 223 (1+1)
- 2<sup>nd</sup> Sem of 2017-18 Agron 223 (1+1)

#### 9) Reviewer of online course (Agromet 506)

**a) As Major Advisor /Guide : 05 No's**

**1. Ph.D. : 02 No's**

- Mr. Asif Ali Reg. No J-21-D-432-A during 2021-22
- Mr. Shesh Narayan Reg. No J-22-D-493-A during 2022-23

**2. M.Sc. : 03 No's**

- Mr. **Rakshit Bhagat**, Reg. No J-18-M-541-A during 2018-19
- Ms. **Tyashi Tolma**, Reg. No J-19-M-610-A during 2019-20

**b) As Member of Advisory Committee : 20 Students**

**1. Ph.D. : 07 No's**

- Ms. **Sugandha Khajuria**, Reg. No. J-22-D-511-A during 2022-23.
- Ms. **Khati Malo** Reg. No. J-22-D-09-HF during 2022-23.
- Ms. **Shailla Hussain**, Reg. No. J-21-D-444-A during 2022-23
- Ms. **Kanchan Rana**, Reg. No .J-21-D-455-A during 2021-22.
- Ms. **Megha Patidar** , Reg. No .J-20-D-396-A during 2020-21
- Ms. **Susmita Das**, Reg. No .J-18-D-343-A during 2018-19.
- Mr. **Vikas Gupta**, Reg. No . J-14-D-211-A during 2014-15.

**2. M.Sc. : 11 No's**

- Ms. **Shweta Chambyal**, Reg. No J-22-M-93-ABM during 2022-23
- **Er. Rigzen Angmo**, Reg. No. J-22-MAE-02-A during 2022-23
- Mr. **Atul Kumar**, Reg. No. J-22-M-928-A during 2022-23
- Ms. **Vishali Dalgotra**, Reg. No. J-22-MBS-76 during 2022-23
- Ms. **Shipra**, Reg. No. J-21-M-819-A during 2021-22
- Mr. **Faran Asif Naik**, Reg. No. J-20-M-715-A during 2020-21
- Mr. **Suhail Ashraf Shah**, Reg. No. J-20-MBS-48 during 2020-21
- Ms. **Safiya Rashid**, Reg. No. J-20-M-779 during 2020-21.
- Ms. **Lovely Nagra**, Reg. No. J-18-M-568 during 2018-19
- Mr. **Faizan Ahmad**, Reg. No. J-18-M-578-A during 2018-19
- Mr. **Sultan Singh**, Reg. No. J-17-M-480-A during 2017-18

**3. UG : 02 No's**

- Ms. **Riya Sharma**, Reg. No. J-22-Agri- 438
- Ms. **Yashasvni Sharma**, Reg. No. J-22-Agri- 439

### Membership of Professional Societies:

1. Association of Agro Meteorologists, AAU, Anand (**Life Member**)
2. Indian Society of Remote Sensing, Hisar chapter (**Life Member**)
3. Indian Meteorological Society, New Delhi (**Life Member**)
4. Society for community Mobilization for Sustainable Development (MOBILIZATION) (**Life Member**)
5. Society for Integrated Development of Agriculture, Veterinary and Ecological Sciences (SIDAVES) - Jammu, India (**Life Member**)
6. Soil Conservation Society of India, New Delhi (**Member**)
7. Academy of Plant Science, Mujaffar Nagar (U.P) (**Member**)
8. Madras Agricultural Journal of Research, Mysore (**Member**)
9. Ecology and Environment, Kalyani, West Bengal (**Member**)
10. Agricultural Research, Karnal, Haryana. (**Member**)

### Workshops/Annual Review Meetings/Group meetings attended:

1.	National symposium on 'Emerging trends in Agricultural Physics' at IARI, New Delhi from 23-24 April, 2003.	IARI, Pusa, New Delhi
2.	National workshop on Remote Sensing & GIS for rural development with special reference to Haryana, Hisar from 29-30 September, 2003	HARSAC, CCSHAU, Campus, Hissar, Haryana
3.	12 <sup>th</sup> Annual Review Meeting of Agrometeorology Advisory Service on 11-13 <sup>th</sup> Nov., 2003	CCS, Haryana Agri. University, Hissar
4.	13 <sup>th</sup> Annual Review Meeting of Agrometeorology Advisory Service on 25-27 Oct, 2004	Anand Agriculture University Anand Gujarat
5.	1 <sup>st</sup> J & K Science Congress on 7-9 <sup>th</sup> Feb. 2005	University of Jammu, Jammu
6.	XIV <sup>th</sup> Annual Review Meeting of Agrometeorology Advisory Service from 30 <sup>th</sup> Nov- 2 <sup>nd</sup> Dec., 2005	Assam Agricultural University Jorhat
7.	National seminar on 'Agrometeorology Services for crop and location specific advisories' from 21-22 June, 2006.	IMD, Pune
8.	National Workshop on "Natural Resource Management for Sustainable Hill Agriculture" on 9-10 <sup>th</sup> November 2006	SKUAST-J
9.	15 <sup>th</sup> Annual Review Meeting of "Agromet Advisory Services" of NCMRWF, (DST Project) from 4-6 <sup>th</sup> Jan., 2007	G.B.P Univ. of Agril. Sciences & Technology, Pantnagar
10.	21 <sup>st</sup> Biennial Workshop of All India Coordinated Research Project for Dryland Agriculture held from 2-5 May, 2007.	SKUAST-Jammu
11.	II <sup>nd</sup> Annual Review Meeting of Integrated Agromet Advisory Service & National Seminar on "Agrometeorological Services for farmers" (NSASF) from 10 <sup>th</sup> to 13 <sup>th</sup> Nov., 2008	Anand Agricultural University, Anand (Gujrat)
12.	Participated in R& D activities of SAC through respond on 18 <sup>th</sup> August, 2009	University of Kashmir, Hazaratbal Srinagar, Kashmir (J&K)
13.	III <sup>rd</sup> Annual Review Meeting of Integrated Agromet Advisory Service from 10 <sup>th</sup> to 12 <sup>th</sup> Dec., 2009	Indian Institute of Technology (IIT), Roorki
14.	IV <sup>th</sup> Annual Review Meeting of Integrated Agromet Advisory Service from 20 <sup>th</sup> to 22 <sup>nd</sup> Dec., 2010	Acharya N.G.Ranga Agricultural University (ANGRAU), Hyderabad
15.	National seminar on 'Climate change and Indian Agriculture: Slicing down the uncertainties' from 22-23 <sup>rd</sup> Jan. 2013.	Central Research Institute for dry land agriculture, Hyderabad
16.	2 <sup>nd</sup> Annual Review Workshop on AICRPDA-NICRA from 15-17 <sup>th</sup> December 2013	AICRP on Dryland Agriculture, RARS, Bijapur (Karnatka)
17.	XIII <sup>th</sup> Biennial workshop of AICRP on Agrometeorology of Hisar centre from 5-7 Nov., 2014	IGKV Raipur
18.	Annual workshop of AICRPAM-NICRA of Hisar centre from 28 to 30 <sup>th</sup> April, 2015	Agricultural Research Station, Kovilpatti at Agricultural college and Research Institute of TNAU,

		Madurai.
19.	4 <sup>th</sup> Jammu and Kashmir Agricultural Science Congress, Organized by J&K state w.e.f. 28-30, October, 2015	SKUAST- Jammu (J&K)-180009
20.	Annual Review Meeting-cum-Farmer Interactive Session and Brain storming meeting on Future thrust and strategies for Agrometeorological Research, Education and Extension in India from 27 <sup>th</sup> to 30 <sup>th</sup> April, 2016	CRIDA, Hyderabad
21.	Regional Review meeting of FASAL on 9 <sup>th</sup> September, 2016.	Rajasthan Agricultural Research Institute, Durgapura, Jaipur
22.	5 <sup>th</sup> Biennial Workshop of AICRP on Agrometeorology w.e.f: 5-7 <sup>th</sup> December, 2016.	Punjab Agricultural University, Ludhiana
23.	6 <sup>th</sup> ARM on GKMS and 7 <sup>th</sup> ARM on FASAL w.e.f: 14-17 Dec., 2016.	Ouat, Bhubaneswar, Odisha
24.	National Symposium on Climate Driven Food Production Systems Agrometeorological Interventions "AGMET 2016" w.e.f: December 20-22, 2016.	Tamil Nadu Agricultural University, Coimbatore
25.	Meeting on implementation of Pradhan Mantri Fasal Bima Yojana (PMFBY) in J&K State on 27 <sup>th</sup> Jan, 2017.	Chanakyapuri, New Dehli
26.	19 <sup>th</sup> Annual National Conference of Society of Statistics, Computer & Applications (SSCA-17) on "Statistics and Informatics in Agricultural and Allied Sciences" during March 6-8, 2017	SKUAST-J, Chatha, Jammu
27.	Stake holders meeting at SKUAST-K on 23 <sup>rd</sup> March, 2017.	Srinagar, J&K
28.	Annual Workshop of NICRA-AICRPAM w.e.f: 22-23 <sup>rd</sup> May, 2017.	Dr.Balasaheb Sawant Konkan Krishi Vidyapeeth, Dapoli
29.	Brain storm meeting on "Weather forecasting based Dynamic crop calendar formulation" on 03 <sup>rd</sup> & 04 <sup>th</sup> August, 2017.	CRIDA, Hyderabad
30.	Meeting of Pradhan Mantri Fasal Bima Yojana (PMFBY) in J&K State under the chairmanship of Financial Commissioner Revenue on 25-09-2017	Srinagar, J&K
31.	National Seminar on Agrometeorology for Sustainable Development with special emphasis on "Agrometeorological Practices for Climate Resilient Farming and Food Security" w.e.f: 12-14 October, 2017.	CCS Haryana Agricultural University, Hisar, India
32.	Invited lecture/lead talk in International South Asian Workshop on 25-26 October 2017	CSKHPKV Palampur
33.	National Symposium & IPS (NZ)-Meet-2017 on Ecologically Sustainable Plant Disease management under Diversified Farming Situation during November 13-14, 2017	SKUAST-J, Chatha, Jammu
34.	National Conference on Innovative Technological Interventions for Doubling Farmers Income (NaCITI-2018) w.e.f. 08-10 Feb., 2018	Society for Integrated Development of Agriculture, Veterinary and Ecological Sciences (SIDAVES), SKUAST-J
35.	Third progress review meeting of AICRPAM centres by VII QRT w.e.f.12-13 March, 2018.	Junagadh Agricultural University, Junagadh (Gujarat)
36.	Annual workshop of NICRA-AICRPAM w.e.f. 30-31 <sup>st</sup> May, 2018	Chander Shekhar Azad University of Agriculture & Technology, Kanpur
37.	Biennial Workshop of AICRP on Agrometeorology w.e.f. 15-17 <sup>th</sup> Nov., 2018	Regional Agricultural Research station Vijayapura of University of Agricultural Sciences (UAS) & Technology, Dharwad, Karnatka
38.	12 <sup>th</sup> Annual Review Meeting of GKMS and 09 <sup>th</sup> Annual Review Meeting of FASAL project, respectively w.e.f: 03 <sup>rd</sup> -06 <sup>th</sup> Dec., 2018	Regional Agricultural Research Station, Tirupiti of ANGRAU, Hyderabad, Telegana.

39.	National Conference on “Women Empowerment through Agro-entrepreneurship for Livelihood Security (WE-2019)” w.e.f. 07-08 <sup>th</sup> Feb., 2019	Society for Integrated Development of Agriculture, Veterinary and Ecological Sciences (SIDAVES), SKUAST-J, Chatha
40.	International Symposium on “Advances in Agrometeorology for Managing Climatic Risk of Farmers” (INAGMET-2019) organized by Association of Agrometeorologists (AAM), IMD and ICAR-IARI, New Delhi w.e.f: 11-13 <sup>th</sup> February, 2019	Jawaharlal Nehru University (JNU), New Delhi
41.	Annual Workshop of NICRA-AICRPAM w.e.f: 28 <sup>th</sup> to 30 <sup>th</sup> May, 2019	CRIDA (ICAR), Hyderabad
42.	5 <sup>th</sup> J&K Agriculture Science Congress on “Climate Change Management for Sustainable Agriculture, Livestock Farming and Ecological Development” during October 14-16, 2019	Main Campus, SKUAST-J, Chatha, Jammu
43.	5 <sup>th</sup> J&K Agriculture Science Congress on “Climate Change Management for Sustainable Agriculture, Livestock Farming and Ecological Development” during October 14-16, 2019	Main Campus, SKUAST-J, Chatha, Jammu
44.	Annual Workshop of AICRP on Agrometeorology w.e.f: 04 <sup>th</sup> to 06 <sup>th</sup> Dec., 2019.	Zonal Agricultural Research Station (ZARS) of MPKV, Solapur, Maharashtra
45.	13 <sup>th</sup> Annual Review Meeting of GKMS w.e.f: 18 <sup>th</sup> to 20 <sup>th</sup> Dec., 2019.	Raj Mata Vijay Raje Scindia Krishi Viswa Vidhalya, Gwalior, Madhya Pradesh
46.	National Seminar on “Agrometeorological Innervation for enhancing farmer’s income (AGMET-2020)” organized by Association of Agrometeorologists (AAM) and Kerala Agricultural University, w.e.f: 20-22 <sup>nd</sup> January, 2020.	College of Horticulture, Kerala Agricultural University, Thrissur, Kerala
47.	Annual Workshop of NICRA-AICRPAM w.e.f. 02 to 04 <sup>th</sup> March, 2020	BACA, Anand Agricultural University, Anand, Gujarat
48.	Annual meeting through online mode of GKMS, AMFU of Chatha Centre on 27-04-2020.	IMD (MOES), New Delhi
49.	Webinar cum review meeting on discussing the “Winter weather preparedness, impact based forecast (IBF) and risk based warning, FDP and Fog services” on 20-11-2020 from 1430 to 1630 hrs under chairmanship of respected DGM (IMD), New Delhi.	IMD, New Delhi.
50.	Annual meeting through online mode of adhoc project FASAL of Chatha, Centre organized on 03 <sup>rd</sup> & 04 <sup>th</sup> Dec., 2020.	Tamil Nadu Agricultural University, Coimbatore in collaboration with IMD (MOES), New Delhi
51.	Online training programme on “Addressing Climate and Disaster Stresses in Agriculture: S&T, Innovation and Extension” w.e.f. 09 <sup>th</sup> to 11 <sup>th</sup> December, 2020	National Institute of Disaster management, Ministry of Home affairs, GOI and PAU, Ludhiana, Punjab
52.	Virtual meeting for discussing the severe weather reporting through cloud sourcing interface on 01-02-2021 at 16:00 hrs under chairmanship of respected DGM (IMD), New Delhi.	IMD, New Delhi
53.	Webinar cum meeting for discussing the regularly providing the weather service to the farmers of J&K and Ladakh” on 10-03-2021 from 1430 hrs	Director, Meteorological Centre (IMD), Rambagh, Srinagar
54.	Online meeting cum training programme on “Dynamic crop weather calendar” on 11-03-2021 from 2:30 to 4:30 P.M.	IMD (MOES), New Delhi
55.	Virtual National Conference on “Strategic Reorientation for Climate Smart Agriculture) (V-AGMET 2021) during March 17-19, 2021	PAU, Ludhiana, Punjab
56.	Global Research Initiatives fo Sustainable Agriculture	SKRAU Bikaner, Rajasthan

	& Allied Sciences (GRISAAS-2021) during 13-15 December 2021	
57.	10 <sup>th</sup> National Seminar on “Agriculture And More: Beyond 4.0” organized by MOBILIZATION w.e.f : 26-28 May, 2022	SKUAST-Kashmir, Shalimar
58.	10 <sup>th</sup> Annual Review workshop of NICRA-AICRPAM and also participate in the brainstorming session of AICPAM w.e.f: 02 to 04 <sup>th</sup> June, 2022.	ICAR-CRIDA, Hyderabad
59.	Regional Conference on “Specialty Agriculture in the context of Farm Economy of Himalayan Region” organized by Division of Agricultural Economics Agribusiness management, SKUAST-Jammu in collaboration with Indian Society of Agricultural Economics, Mumbai w.e.f: 21 and 22 <sup>nd</sup> September, 2022	SKUAST-Jammu
60.	XVI Biennial Workshop of AICRPAM organized by UAS, Bangalore in collaboration with ICAR-CRIDA, Hyderabad from 12 <sup>th</sup> to 14 <sup>th</sup> Nov, 2022.	ICAR-CRIDA, Hyderabad
61.	International Conference on “Climate Change and Agroecosystem: Threats, Opportunities and Solutions” (INAGMET)-2024 w.e.f: 8-10 <sup>th</sup> February	Banaras Hindu University, Varanasi
62.	Quinquennial Review Meeting of AICRPAM from 6-8 <sup>th</sup> June, 2024	SKUAST-KASHMIR

### **Trainings / Summer and Winter School**

- ICAR sponsored short course on “Weather based Agro advisories: Value Addition” from Nov. 30 to Dec. 9, 2004 organized by Department of agricultural Meteorology, CCS Haryana Agricultural University, Hisar (10 days).
- Training on “Dynamic Crop Simulation Model based Decision Support System and its use in Agromet Advisory Service of NCMRWF” w.e.f. 7-18<sup>th</sup> Nov., 2005 organized by GOI, Dept. of Science and Technology, NCMRWF, Noida (Two weeks).
- 4<sup>th</sup> SERC School on “Agricultural Droughts-Aspects of Micrometeorology” during 25<sup>th</sup> September-15<sup>th</sup> October, 2006 organized by CRIDA, Hyderabad (21 days)
- Winter School on “Alternate Land Use Systems for Resource Conservation, Emerging Market Needs and Mitigation of Climate Change in Rain fed Regions” during January 16- February 5, 2009 organized by CRIDA, Hyderabad (21 days)
- DST Training Program on “Advances in Plant-Atmospheric Interactions” during 22<sup>nd</sup> October – 11<sup>th</sup> November, 2009 organized by AICRP on Agro meteorology, CRIDA, Hyderabad (21 days)
- Short Course on “Cropping System Models: Applications in Land Resource Management” during 5-9 December, 2011 organized by ICRISAT, Patancheru, A.P., India (One week).
- Training Workshop on “Crop Growth Simulation Model (DSSAT) for wheat crop” from May 23-28, 2011 organized by AICRP on Agro meteorology, PAU, Ludhiana (One week).
- In-service Capacity Building on Strengthening the Capabilities in Agromet Data Analysis and modeling” during 3-12<sup>th</sup> February, 2015 organized by CRIDA, Hyderabad (10 days)
- 4<sup>th</sup> Capacity building enhancement programme for AICRPAM scientists entitled “Application of Advanced Agrometeorological Tools in Agricultural Production System” w.e.f: 22-03<sup>rd</sup> March, 2017 organized by CCS, HAU, Hisar (10 days).
- 5<sup>th</sup> Capacity building training programme on “Development of Dynamic crop-weather calendar for operationalizing weather forecasting” of AICRPAM during 21 to 28<sup>th</sup> Feb, 2018. organized by JNKVV, Jabalpur (One week).
- 6<sup>th</sup> Capacity Enhancement Program on “Agrometeorological Applications” of AICRPAM during 16 to 25<sup>th</sup> Feb, 2019 organized by Birsa Agricultural University, Kanke, Ranchi (10 days).
- International Webinar on “Building Climate Resilience in Agriculture through Agrometeorology and other Technological Interventions” during 15-17<sup>th</sup> December, 2020 organized by Centre for Advance Studies on Climate Change, Dr. Rajender Prasad Central Agricultural University, Pusa. (03 days).

- Online Training Programme on “Addressing Climate and Disaster Stresses in Agriculture; S & T, Innovations and Extension” 09-11 December 2020 organized by National Institute of Disaster Management, Ministry of Home Affairs, GOI and PAU, Ludhiana, Punjab. (03 days).
- 7<sup>th</sup> Capacity Enhancement Programme of AICRPAM during 4-7<sup>th</sup> March, 2020 organized by BACA, Anand Agricultural University, Anand, Gujarat (04 days).
- Training Programme on “National and International Agricultural Higher Education Opportunities” during 15-18<sup>th</sup> February, 2021 organized by Mahatma Phule Krishi Vidyapeeth, Rahuri (Maharashtra) (04 days).
- Massive Open Online Course (MOOC) on Digital Teaching Techniques during 1-31<sup>st</sup> December, 2021 ICAR-National Academy of Agricultural Research Management (31 days)
- VII Capacity Building programme of AICRPAM on “**Agromet techniques for improving resource use in agriculture**” w.e.f. 15<sup>th</sup> to 21 November, 2022 at UAS-Bangalore.
- VIII Capacity Building programme **from 24<sup>th</sup> Feb to 03<sup>rd</sup> March, 2024** at CRIDA ICAR, Hyderabad.

### **Best Paper/Poster in national conference**

- 1) **Best Poster presentation** award for the Research paper entitled “Assessment of Climate Change and its impact on growth and Yield of Wheat under temperate and sub-tropical condition through DSSAT 4.0” in **National Symposium** on “Climate Change and Indian Agriculture: Sliding Down the Uncertainties” held at Central Research Institute for Dry land Agriculture, Hyderabad, India during **22-23 January, 2013**.
- 2) **Best Oral presentation award** in **National Seminar** on “Agro meteorology for Sustainable Development with special emphasis on Agro meteorological Practices for Climate Resilient Farming and Food Security” held at CCS HAU, Hisar during **12-14 October, 2017**.
- 3) **Best poster presentation award** in National Symposium on “Ecologically Sustainable Plant Disease Management under Diversified Farming Situation” held at SKUAST-Jammu, Main Campus Chatha (J&K) during **13-14 November, 2017**.
- 4) **Best Oral Presentation award** in **National Conference** on “Climate Change Management for Sustainable Agriculture, Livestock Farming and Ecological Development” held at SKUAST-J, Main Campus, Chatha, Jammu during **October 14-16, 2019**.
- 5) **Best Poster presentation award** in 10th National Conference on Agriculture and More: Beyond 4.0. Organized by MOBILIZATION, New Delhi at Sher-e-Kashmir University of Agricultural Sciences & Technology of Kashmir (SKUAST-K), Shalimar, Srinagar, Kashmir, (J&K) w.e.f. **May 26-28, 2022**.
- 6) Received as member of team for best oral paper award for presentation of research paper in National Conference, AGMET 2022, organized by Department of Agricultural Meteorology in association with Association of Agrometeorologist, Tamilnadu Chapter in collaboration with Association of Agrometeorologist, Anand Gujarat, India at TAU, Coimbatore, Tamilnadu we.f. **21<sup>st</sup> to 23<sup>rd</sup> February, 2023**

### **Extension Activities:**

#### **Radio talks/TV shows (title and date)**

- Initial drought & Agriculture JK Channel 12-07-2009
- Effect of delayed monsoon on Agriculture 20-07-2009 IBN& Aaj Tak
- Impact of meteorological parameters on wheat crop Doordarshan Kendra on Feb, 2010
- How Agromet helps to Farmers Doordarshan Kendra on March, 2010.
- Heat Wave in Jammu 26-05-2010 J& K Channel, Take one, Jammu
- Interview with Take one channel about onset of South West monsoon on 03-05-2024.
- Interview at Doordarshan Kendra, Jammu on “**Heat wave in Jammu region and its Impact**” in a programme entitled Ek Dharti EK Paani on **25<sup>th</sup> June, 2024**

## Other activities

- Establishment of Agromet observatories at newly created Campus at Chatha.
- Establishment of research field of Agrometeorology at new site of SKUAST\_J, in Oct., 2010.
- Establishment of Automatic Weather Station in Jammu region.
- Member of various organizing committees, etc.
- Maintenance supervision of Agromet observatory at SKUAST-J, Chatha, Jammu.
- Regularly weather data sending to IMD, Pune, CRIDA, Hyderabad and R & D purposes to other users.
- Updating of ICAR website [www.cropweatheroutlook.org.in](http://www.cropweatheroutlook.org.in).
- Installation of three ordinary rain gauges at different location in Jammu regions in which two at KVKs, R.S.Pura & Kathua and one at progressive farmer (Sham Gorkha) field at Jandle Mehru (R.S.Pura) in the month of July, 2010.
- Establishment of Piezometer at DLRSS, Rakh Dhiansar collaboration with central ground water board, Jammu centre.
- Incharge research farm, Department of Agricultural Meteorology, COA Hisar w.e.f. 01-10-2014.
- Incharge, Dry Land Research Sub Station, Rakh Dhiansar of SKUAST\_J, up to 30/09/2014.
- Participated and presented report for Hisar centre in Working Group Meeting and Brain-storming session of AICRPAM and Annual Review Meeting of NICRA-AICRPAM projects
- Acted as member of coordination committee of HAUTA Election 2014-15.
- Act as External Examiner for conduct of M.Sc.Agril. Met. Thesis viva- voce at PAU, Ludhiana.
- Examination duty in midterm & end term exam of UG & PG.

∴