

BIO-DATA

1. **Name** : **Dr. Naushad Khan**
2. **Father's Name** : **Sri. Nazir Mohammad Khan**
3. **Present position** : **Professor (Agronomy)**

Additional positions Hold : -

- Incharge, University Engineering Department
- Director, Administration and Monitoring

4. **Pay Scale** : 131400-217100

5. **Date of Birth** : 03.08.1967

6. **Present Address-**

Office : Department of Agronomy, C.S. Azad University
of Agriculture & Tech., Kanpur-208002
Tel.- 0512- 2534155 (O) Fax : 0512-2533808
E-Mail : naushadkhan.0000@gmail.com

Residence : B-7, Govt. officer colony, Rawatpur,
Kanpur- 208002
Mob. – 07860786422, 7905577366

7. **Permanent home Address and Birth place** : Village & Post- Herdauli
Tahsil- Baberu, Distt.- Banda (U.P.)

8. **Experience :**

More than 27 year experience of working in various capacities in the field of Teaching, Research, Extension and Administration at university level and other state Govt. Department of U.P..

9. **Educational Qualifications :**

| Degree/ Examination passed | Board/ University | Subject | Year | Division | OGPA/ %age |
|---------------------------------------|--------------------------|----------------|-------------|-----------------|-----------------------|
| High School | U.P. Board Allahabad | Agriculture | 1983 | First | 60.2 |
| Intermediate | U.P. Board Allahabad | Agriculture | 1985 | First | 74.6 |
| B.Sc. (Ag& AH) | C.S.A.U.A&T, Kanpur | Agriculture | 1988 | First | 81.2 |
| M.Sc. Ag | C.S.A.U.A&T, Kanpur | Agronomy | 1990 | First | 87.44 |
| Ph. D. | C.S.A.U.A&T, Kanpur | Agronomy | 2007 | First | 89.2 |

10. Service Particulars and working experience:

| Position | Pay & Scale | Period | | Institution /organizations |
|---|----------------------------|------------|------------|---|
| | | From | To | |
| Professor | 37000-67000 (AGP 10000) | 08.11.2017 | Till now | C.S.A.U.A.&T., Kanpur |
| Associate Professor | 37000-67000 (AGP 9000) | 08.11.2014 | 07.11.2014 | C.S.A.U.A.&T., Kanpur |
| Assistant Professor (Research) | 15600- 39200+7000 | 24.8.2011 | 07.11.2014 | C.S.A.U.A.&T., Kanpur |
| Assistant Professor (Teaching) | 10000-15200 | 01.7.2007 | 23.8.2011 | C.S.A.U.A.&T., Kanpur |
| Assistant Professor/Jr. Vegetable Agronomist | 8000-13500 | 08.11.2002 | 30.6.2007 | C.S.A.U.A.&T., Kanpur |
| Seed certification Inspector | 4500-7000 | 22.8.1996 | 07.11.2002 | U.P. State seed certification agency Lucknow. |
| Research Associate | 2700 Fixed | 24.4.1995 | 21.8.1996 | C.S.A.U.A.&T., Kanpur |
| Research fellow | 1000 Fixed | 24.5.1993 | 23.04.1995 | C.S.A.U.A.&T., Kanpur |

11. Research:

(A) Research Experience – More than twenty two year research experience on various aspects of agronomy in All India Coordinated Research Projects / Adhoc projects / state govt. Sponsored Project at different capacities.

- i. Jr. Agronomist/ Asstt. Prof./Co-PI of **All India Coordinated Research Project on vegetable.**
- ii. Jr. Agronomist/Asstt. Prof. /Co-PI of **All India Coordinated Research Project on weed control.**
- iii. Jr. Agronomist/Asstt. Prof. /Co-PI of **All India Coordinated Research Project on Integrated Farming System**
- iv. Principal Investigator of AICRP on Agrometeorology.

(B) Execution and handling of central and state Govt. sponsored Project –

1. Co-Principal Investigator of CRIDA (ICAR) sponsored adhoc project on **“National innovation on climate resilient agriculture (NICRA)” (2011-2015).**
2. Principal Investigator of NICRA (2018-2021).
3. Associate Scientist in CAAST-NC World Bank sponsored project (2018-21)
4. PI of Innovative and Contextual Agromet Advisory Services (Dec 2018- Nov 2021)

(C) Associated with other organization Research Project –

1. Associated in adhoc project entitled “**Management of *Cyperus rotundus L.* through Glyphosate in Maize-Potato-Sunflower cropping system in central plain zone of U.P.**” sponsored by Excel Industries Ltd. Bombay during April 1993 to April 1995 at C.S.A.U.A.& T., Kanpur.
2. Associated in World Bank sponsored adhoc project entitled “**Sodic land reclamation project**” during May, 1995 to August, 1996 at C.S.A.U.A.& T., Kanpur.

12. Principal Scientific Achievements (Agro-Technology Developed)–

1. Tomato & chilli seedlings treated with Azospirillum could save 25% of nitrogen.
2. Developed suitable Integrated Nutrient Management Techniques for enhancing the production of vegetables like Tomato, Cauliflower, Broccoli, Chilli, Brinjal, Bitter gourd and cucumber.
3. Developed Agro techniques for higher production of Broccoli and capsicum.
4. Evolved the effective technique of foliar spray of water soluble fertilizer in Tomato and Bitter guard.
5. Developed off – season growing techniques for cucumber in poly house.
6. Made survey and surveillance in area jurisdiction of the university and found new emerging weed flora in many districts of state.
7. Developed Integrated and cost effective weed management techniques for various crops and cropping systems.
8. Quantified losses caused by weeds in sole crop and cropping systems.
9. Developed Integrated Weed Management Technique for Garlic.
10. Tested the efficacy of different new herbicide molecules for management of grassy and broad leaved weed in Rice-Wheat system.
11. Developed biologically efficient and profitable cropping systems for *Central Plain Zone* of U.P.
12. Developed integrated farming system models for small and marginal farmers of *Central Plain Zone* of U.P.

13. Teaching Experience –

Courses Taught – 20 Years

➤ At U.G. Level

- Water management including micro irrigation
- Rainfed Agriculture (AGR-301)
- Practical crop production
- Principles of Agronomy and Agrometeorology (AGR-101)
- Weed Management (AGR-306)
- Farming system and sustainable agriculture (AGR-302)

- Geo informative, precision farming and nano technology
- Climate science.
- Weed management in Horticultural Crops.

➤ **At P. G. Level**

- Principles and practices of weed management
- Soil fertility and fertilizer use
- Modern concept of crop production
- Crop production of oilseed, fibre and sugar crops.

➤ **At Ph. D. Level**

- Dry land Agriculture (AGR-601)
- Agronomy of vegetable crops (AGR-603)
- Systems Research and Crop Modelling (AGR-604)
- Recent trends in weed management

14. Guidance of Post graduate candidates for thesis:

M. Sc. (Ag.) Students -

| | | |
|-------------------|----------|-----------|
| Guided | : | 25 |
| Co- guided | : | 40 |

Ph.D Student-

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|-----------------------|----------|-----------|
| Guided/Guiding | : | 08 |
| Co- Guided | : | 09 |

15. Scientific Publication:

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|-----------------------------|---|----|
| ➤ Research Papers Published | - | 41 |
| ➤ Abstracts Published | - | 65 |
| ➤ Book Published | - | 05 |
| ➤ Manuals | - | 04 |
| ➤ Technical Bulletins | - | 22 |
| ➤ Popular Articles | - | 49 |
| ➤ Book Chapters | - | 16 |

16. Additional duties

(a) Research/Project management position (RMP)/ Project management and In-charge

| S.N. | Name of Work | Duration | | Year |
|-------|--|-------------|------------|---------|
| | | From | To | |
| I. | Incharge, UG lab | Sept., 2008 | Oct., 2015 | 7 years |
| II. | CO-PI- AICRP on Vegetables | Nov 2002 | Jun 2007 | 5 year |
| III. | CO-PI- AICRP on Weed control | Aug 2009 | 2012 | 3 year |
| IV. | CO-PI- AICRP on Integrated Farming System | Jan 2013 | May 2015 | 2 Year |
| V. | In-charge, E.C.F./On Farm Research centre | 2013 | 2015 | 2 years |
| VI. | CO-PI, NICRA Project | March, 2011 | Dec., 2018 | 9 years |
| VII. | PI, NICRA Project | Dec., 2018 | Continue | 1 year |
| VIII. | PI, AICRP on Agrometeorology | 2018 | Continue | 1 year |
| IX. | Associate Scientist, CAAST-NC Project | 2018 | Continue | 1 year |
| X. | PI, Innovative and Contextual Agromet Advisory services in Climate Smart Agriculture | Dec., 2018 | Continue | 1 year |

(b) Administrative Responsibilities Performed

| S.N. | Positions | Duration | | Year |
|-------|--|-------------|--------------|----------|
| | | From | To | |
| I. | Warden (National Hostel) | Sept, 2008 | 2019 | 11 years |
| II. | In-charge Agriculture Knowledge of Management Unit | Nov., 2013 | June, 2018 | 5 years |
| III. | In-Charge, Media Cell | Jan., 2011 | August, 2015 | 4 years |
| IV. | Nodal officer, Scholarship (Social welfare) | July 2015 | 2019 | 4 years |
| V. | Associate Dean Students' welfare | Sept. 2016 | 2019 | 3 years |
| VI. | Warden (International Hostel) | Aug, 2017 | Oct., 2018 | 2 years |
| VII. | Counsellor, swimming & Gym | March, 2016 | Oct., 2018 | 2 years |
| VIII. | Member, Students disciplinary committee | Sept., 2016 | Jan., 2018 | 2 years |
| IX. | Incharge University Engineering | Jan 2021 | Till Now | |
| X. | Director Administration and Monitoring | Jan 2023 | Till Now | |

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| XI. | Public Information Officer | July 2016 | Oct 2019 | 3 years |
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17. Seminar/symposia/course/workshop attended /Organized

| Title of seminar/symposia /course/workshop organized | Place of seminar /symposia /course /workshop | Year | Duration | |
|--|--|------|----------|---------|
| | | | From | To |
| 1. As organizing Secretary | | | | |
| All India Annual workshop of National Innovation of Climate Resilient Agriculture (NICRA) | Workshop, CSAUA&T, Kanpur | 2018 | 30 May | 31 May |
| 2. Co-organizing Secretary of 6th Alumni meet and national conference on “ Farmers centric Agri-Innovation for sustainable development” held at CSAUA& T, Kanpur | C.S.A.U.A.&T, Kanpur | 2017 | 18 Feb. | 19 Feb. |
| 3. Organizing Member National conference on “Organic farming for sustainable Agricultural and livelihood security under changing climate condition | C.S.A.U.A.&T, Kanpur | 2017 | 12 Dec | 13 Dec |
| 4. Convenor Technical session of 4 th UP Agricultural Science Congress-2016 for sustainable Agriculture | C.S.A.U.A.&T, Kanpur | 2016 | 2 March | 4 March |
| Convenor of Technical session and Media & Publicity of National conference committee on organic farming for sustainable agriculture and livelihood security under changing climate condition | C.S.A.U.A.&T, Kanpur | 2017 | 12 Dec | 13 Dec. |
| 5. Co-chairman Media and publicity committee of 7 th IAUA, Regional Meeting of Vice Chancellor and Agri-input conclave -2018 | C.S.A.U.A.&T, Kanpur | 2018 | 28 Aug | 30 Aug |
| 6. Reportiur Technical session of Integrated system during Krishi kumbh / International conference | IISR, Lucknow | 2018 | 26 Oct | 28 Oct |
| Seminar/Symposia /Workshop attended | | | | |
| International | | | | |
| 1. International seminar on “Recent trends in Hi-tech – horticulture & post harvest technology | C.S.A.U.A.&T, Kanpur | 2004 | 04 Feb. | 06 Feb |

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|-----------------|---|---|------|---------|---------|
| 2. | Post harvest technology and value addition in cereal pulses and oil seeds | C.S.A.U.A.&T, Kanpur | 2006 | 27 Nov | 30 Nov |
| 1. | Sustainable Agriculture for food, bio-energy and livelihood security | JNKVV, Jabalpur (M.P.) | 2007 | 14 Feb | 16 Feb |
| 2. | Grain Legumes: Quality improvements, value addition and trade | IIPR, Kanpur | 2009 | 14 Feb | 16 Feb |
| 3. | Third International Agronomy Congress on “Agriculture Diversification, Climate change management and livelihoods” organized by Indian society of Agronomy and ICAR, New Delhi | IARI, New Delhi. | 2012 | 26 Nov | 30 Nov |
| 4. | International Agronomy Congress on Agronomy for Sustainable Management of Natural Resources, Environment, Energy and Livelihood security to achieve zero hunger. | IARI, New Delhi | 2016 | 22 Nov | 26 Nov |
| 5. | International conference on “Post Harvest Technology of Agricultural Produce for Sustainable Food and Nutritional Security”. | Integral University Lucknow | 2016 | 10 Nov | 12 Nov |
| 6. | International conference on Natural Resource Management in Ecological perspectives | SKUAST, Jammu | 2016 | 18 Feb | 20 Feb |
| 7. | Krishi Kumbh 2018, International Conference on doubling farmers’ income | IISR, Lucknow | 2018 | 26 Oct | 28 Oct |
| 8. | International Conference on “Sustainability of Smallholder Agriculture in Developing Countries under Changing Climatic Scenario” | CSAUA & T, Kanpur | 2018 | 14 Feb | 17 Feb |
| 9. | International conference on Sugarcon-2019 on “Green Technology for sustainable development of sugarcane & integrated industries”. | IISR, Lucknow | 2019 | 16 Feb | 19 Feb |
| National | | | | | |
| 1. | Resource management for eco-friendly crop production | C.S.A.U.A.&T., Kanpur | 2003 | 26 Feb | 28 Feb |
| 2. | Diversification of agriculture through horticulture crops | IARI, regional station Karnal (Haryana) | 2004 | 21 Feb | 23 Feb |
| 3. | Recent trends in Hi-tech Agriculture | S.V.B.P.U.A.&T, Meerut | 2006 | 04 Nov | 05 Nov |
| 4. | Management of Medicinal and | C.S.A.U.A.&T., | 2007 | 20 Mar. | 22 Mar. |

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| | Aromatic Plants in farming system perspective | Kanpur | | | |
| 5. | Legumes for ecological sustainability Emerging challenges and opportunities | IIPR, Kanpur | 2007 | 03 Nov | 05 Nov |
| 6. | Technological innovation for resource starved farmers in global perspective | CSAUA&T, Kanpur | 2008 | 28 Apr. | 30 April |
| 7. | Emerging challenges in harnessing plant bio-diversity, Marketing and export potential of meditational and aromatic plant | CSAUA&T, Kanpur | 2008 | 28 Jan | 30 Jan |
| 8. | Achieving Millennium Development Goals problems and prospects | Bundelkhand University, Jhansi U.P.) | 2009 | 25 Oct | 26 Oct |
| 9. | Quality seed production of spices, Meditational and Aromatic Plants | Amar Singh College of Agriculture, Lakhaoti, BulandSahar | 2010 | 27 Mar. | 28 Mar. |
| 10. | Recent Advances in Weed Science Research | IGKV, Raipur | 2010 | 25 Feb | 26 Feb |
| 11. | Food Security in Context Of Changing Climate | CSAUA&T, Kanpur | 2010 | 30 Oct | 01 Nov |
| 12. | Sustainable Agriculture For Rural Development | CSAUA&T, Kanpur | 2010 | 11 Dec | 12 Dec |
| 13. | Bio-diversity and Food Security Challenges and Devising Strategies | IIPR, Kanpur | 2011 | 10 Dec | 11 Dec |
| 14. | Sustainable crop protection in changing Agriculture Scenario | CSAUA&T, Kanpur | 2011 | 18 Nov | 19 Nov |
| 15. | Annual Work plan meet on National initiative on climate resilient agriculture (NICRA) | PDFSR, Modipuram Meerut | 2012 | 21 Feb | 22 Feb |
| 16. | “Importance of Potassium in Balance Fertilization for Sustainable Crop Production” | CSAUA&T, Kanpur | 2011 | 04 Nov | |
| 17. | Participated in QRT Meet for AICRP-Weed Control | RMVRS, Krishi Vishwavidyalaya, Gwalior. | 2011 | 10 Oct | 13 Oct |
| 18. | Participated in QRT Meet for AICRP_IFS (2007-2011) | BHU, Varanasi | 2012 | 28 Mar. | 29 Mar |
| 19. | National Seminar on Transforming Uttar Pradesh Through Agriculture organized by LMA, Lucknow | Scientific Conventional Centre, Lucknow | 2012 | 01 Dec | |
| 20. | National conference on Agripreneurship and Agribusiness: Opportunities and Challenges | STEP - HBTI, Kanpur | 2013 | 16 Mar | 17 Mar |

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| 21. | National Seminar - 2013 on “Social Dimensions of Extension Education in Holistic Development of Rural Livelihood” | C. B. Gupta Agriculture P.G. College Bakshi Ka Talab, Lucknow | 2013 | 26 April | 27 April |
| 22. | National Seminar on Doubling food production in India in Five years. | Vigyan Bhawan, New Delhi. | 2013 | 01 Feb | 03 Feb |
| 23. | 37 th ISSC-Satellite Meet on “Management of Natural Resources in relation to sustainable Agri-ecosystem under Climate Change” jointly organized by Society for Green Vegetation Research and CSAU, Kanpur | CSAUA &T, Kanpur | 2013 | 24 th Dec | |
| 24. | Group Meeting of AICRP-IFS | ICAR Research Complex for NEH region, Umiam. | 2013 | 02 Dec | 04 Dec |
| 25. | National Conference on Technological Empowerment of Women at the Grass Roots | CSAUA &T, Kanpur | 2014 | 06 Sept. | 07 Sept. |
| 26. | National Conference on Women Empowerment During XII Five Year Plan Through Agricultural Mechanization | CSAUA &T, Kanpur | 2014 | 24 Dec | 25 Dec |
| 27. | Third U.P. Agricultural Science Congress | SHIAT, Allahabad | 2015 | 14 Jan | 16 Jan |
| 28. | Global Research Initiatives For Sustainable Agriculture & Allied sciences (GRISAAS-2015) | RVSKVV, Gwalior(M.P.) | 2015 | 12 Dec | 13 Dec |
| 29. | National Seminar on “Individual Achievements & National Development | Bangaluru | 2015 | 20 August | |
| 30. | 37 th National Unity Conference on “Contribution of Education & National Development.” | Chennai, Tamilnadu | 2016 | 4 th Sept. | |
| 31. | Fourth U.P. Agricultural Science congress on “Strategic Governance and Technological Advancement for sustainable Agriculture” | C.S.A.U.A&T. Kanpur | 2016 | 02 March | 04 March |
| 32. | National Conference on “Recent Advances in Diversified Agricultural System. | Muzaffarnagar (U.P.) | 2016 | 20 Feb | 21 Feb |
| 33. | National Seminar on seed spices-2016 new dimensional approaches for enhancement of seed spices productivity and profitability under era of climate change. | NRC-spices, Ajmer | 2016 | 02 Feb | 03 Feb |

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| 34. | National Seminar on “Environment Issues and strategies | Rooprani Sukh Nandan Singh Mahavidyalaya | 2016 | 28 Jan | |
| 35. | 2 day’s National Seminar on “Integrated Approach for enhancing sugarcane overall farm productivity by adopting improved cultivation and analytical practices. | National Sugar Institute, Kanpur | 2017 | 06 Apr. | 07 Apr. |
| 36. | National Conference on Organic Farming for sustainable Agriculture and livelihood security under changing climate conditions | C.S.A.U.A.&T. Kanpur | 2017 | 12 Dec | 13 Dec |
| 37. | Orientation on invent social incubation Program | IIT, Kanpur | 2016 | 29 Aug | |
| 38. | FICCI, IIGP | Hotel status club, Kanpur | 2016 | 12 th Jan | |
| 39. | Special Training on Agriculture Research with relation to IPR | CSAUA&T, Kanpur | 2017 | 16 Aug | 17 Aug |
| 40. | Farmers’ Centric Agri-innovation for sustainable development | C.S.A.U.A&T. Kanpur | 2017 | 18 Feb | 19 Feb |
| 41. | One day Workshop on “Bio-energy and climate resilience for sustainable development in India | Directorate of Extension C.S.A.U.A.&T. Kanpur | 2017 | 03 March | |
| 42. | Participate in one day brain storming program for formulating the strategies for enhancing the productivity of cereals and pulse | UPCAR, Lucknow | 2018 | 10 Aug | |
| 43. | All India workshop of National Innovation of climate Resilient Agriculture | CSAUA&T, Kanpur | 2018 | 30May | 31 May |
| 44. | All India workshop of AICRP on Agrometeorology | College of Agriculture, Vijayapura, UAS Dharwad | 2018 | 15 Nov | 17 Nov |
| 45. | National conference on “Doubling farmers income in garlic, onion, potato production and post harvest management under climate change” | KVK, Anta, Kota, Rajasthan | 2019 | 27 Jan | 28 Jan |
| 46. | 4 th National conference on “Innovative approaches in oilseed Brassica towards self sufficiency” | CSAUA & T, Kanpur | 2019 | 01 Feb | 03 Feb |
| 47. | National Conclave on empowering rural women through | C.S.A.U.A&T. Kanpur | 2019 | 06 Mar | 08 Mar |

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| | Agripreneurship and innovative farm technology (UTTHAN Agripren- 2019) | | | | |
| 48. | All India workshop of National Innovation of climate Resilient Agriculture | CRIDA, Hyderabad | 2019 | 28 May | 30 May |
| 49. | National Web-Conference on Management of resources for improvement of productivity, biodiversity and livelihood security | CSAUA&T, Kanpur | 2020 | 29July | 30 July |
| 50. | National Web-Conference on Technological Approaches for Resource Conservation and Management for Environmental Sustainability | ANRCM, Lucknow | 2020 | 16Aug | 17 Aug |
| 51. | National webinar on Roal of Acadimic Institution in Environmental sustainability and conservation. | CSAUA&T, Kanpur | 2020 | 23 Nov | 24 Nov |
| 52. | Virtual National Conference on “Strategic Reorientation for Climate Smart Agriculture (V-AGMET 2021). | PAU, Ludhiana | 2021 | 17 Mar | 21 Mar |

18. Awards/Recognition/ Fellowship received

| Name of the award/Recognition / Fellowship | Awarding organization (Place/Country) | Year | International / National/ Institutional /Award/Fellowship/Recognition/ President/ Member |
|--|---|-----------|---|
| University merit Scholarship | CSAUA&T, Kanpur | 1985-86 | During BSc (Ag. & AH) programme |
| Fellowship | Excel industries limited Bombay | 1993-1995 | During Ph. D. Programme |
| Appreciation / Recognition | V.C., C.S.A.U.A.&T., Kanpur | 2011-12 | For appreciable work with students in NSS Camp. |
| Recognition | V.C., C.S.A.U.A.&T., Kanpur | 2012-2013 | For successful Associate Trainer in NSS Camp. |
| Appreciation/ Recognition | V.C., C.S.A.U.A.&T., Kanpur | 2013-2014 | For appreciable social work in NSS Camp. |
| Best Poster Award | C. B. Gupta Agriculture P.G. College Bakshi Ka Talab, Lucknow | 2013 | For Best Poster Presentation in the national Seminar-2013 on “Social Dimension of Extension Education in Holistic Development of Rural livelihood” during April 26-27, 2013 |
| Azad Krishi Samman | CSAUA&T, Kanpur | 2013 | For dedicated contribution in successful completion of 52 nd All India Wheat and Barley Workshop during 1-4 Sept 2013. |
| Recognition | Jointly given by the | 2014 | For making significant contribution in |

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| | CSA University and Chandra Shekhar Krashak Samiti | | extension training programme held at Directorate of Extension for the benefits of farmers. |
| Bharat Seva Ratan Gold Medal Award | Global Economics Progress and Research Association, Chennai. | 2014 | Institutional Award for making contribution in Research. |
| Rajiv Gandhi Gold Medal Award | Global economics progress & Research association Chennai, India | 2015 | Excellence in teaching & research |
| Appreciation/Recognition | Hon'ble V.C., BUAT, Banda | 2015 | For appreciable efforts and commitment towards success of 1 st convocation of BUAT, Banda |
| Fellow Award - 2015 | Research and Development Society at Muzzaffar Nagar | 2016 | For outstanding contribution in Research |
| Bharat Ratna Dr. ABDUL KALAM Gold Medal AWARD-2016 | Global Economic, Research Association, at Chennai | 2016 | For outstanding contribution in Education & National Development |
| Appreciation/Recognition | Hon'ble V.C., CSAU, Kanpur | 2016 | For dedicated and sincere efforts as convenor of programme & management/technical session committee towards making success of 4 th UP Agric science congress at CSAU, Kanpur |
| Appreciation/Recognition | Hon'ble V.C., CSAU, Kanpur | 2016 | For making excellent contribution in organizing university level cultural competition on 28.09.2016. |
| Appreciation/Recognition | Hon'ble V.C., CSAU, Kanpur | 2016 | For appreciable help in making success of entrepreneurial development workshop on Agricultural and allied sector. |
| Appreciation | Honb'le VC, CSAU, Kanpur | 2017 | For excellent contribution in success of All India Farmers Fare held at CSAU, Kanpur during 5-8 Oct. 2017 |
| Appreciation/Recognition | Hon'ble V.C., BUAT, Banda | 2017 | For appreciable efforts and commitment towards success of 2 nd convocation of BUAT, Banda |
| Award of excellence | CSAU, Kanpur | 2018 | Development of IFS, Model |
| Appreciation/Recognition | President SRMR, Bharatpur, Rajasthan | 2019 | Dedicated help in successful organization of 4 th National Brassica Conference held during 1-3 Feb, 2019 at CSAU, Kanpur |
| Best oral Award | Agriculture University, Kota, Rajasthan | 2019 | For oral presentation of research paper “Effect of planting patterns and weed control practices on onion under Central Plain Zone of UP” in National seminar “Doubling farmers income in garlic, onion, potato production and |

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| | | | post harvest management under climate change” held at KVK, Antah, Agriculture University, Kota during 27-28 Jan. 2019. |
| Best Teacher Award | St. John’s College, Agra | 2020 | For his outstanding contribution in the field of Agronomy on the occasions of National Conference at Assembly Hall, St John’s College, Agra. |
| Best Oral Presentation Award | CSAUA&T, Kanpur | 2020 | For Oral presentation of Research Paper “Farmers Feedback about the Agromet-Advisory Services During COVID-19 Lockdown at Kanpur Dehat” held at CSAUA&T, Kanpur During 6-8 May, 2020. |
| Award of Excellence-2019 | CSAUA&T, Kanpur | 2020 | Development of Agro-techniques |
| Awards Recognition | CSAUA&T, Kanpur. | 2022 | Certificate of Appreciation for dedicated work in “ National Conference on Climate Resilient and Sustainable Development of Horticulture ” during 28-31 May, 2022 at CSAUA&T, Kanpur. |
| Appreciation certificate | CSAUA&T, Kanpur. | 2022 | Appreciation certificate at Shubhanjali programme organized jointly by All India Women Development and Training Society, New Delhi and CSAU, Knapur on 24 Apr., 2022. |
| Certificate of Publication | Kripa Dristi Publication | 2024 | Recognition of international publication of the book chapter Crop residue management of for sustainable agriculture in the book Climate change in agriculture : its impact and mitigation potential |
| Certificate of Excellence in Reviewing | India: Guest House Road, Street no - 1/6, Hooghly, West Bengal, India | 2025 | Microbiology Research Journal International in recognition of an outstanding contribution to the quality of the journal |
| Certificate of Excellence in Reviewing | India: Guest House Road, Street no - 1/6, Hooghly, West Bengal, India | 2025 | Annual Research & Review in Biology in recognition of an outstanding contribution to the quality of the journal |
| Certificate of Participation | Centre for e-Learning, Kerala Agricultural University, Thrissur | 2025 | Online training programme on Basics of Python Programming |
| Certificate of Participation | Patanjali Research Foundation Haridwar | 2025 | Webinar on Organic Farming through PGS System |
| Certificate of Participation | Patanjali Research Foundation Haridwar | 2025 | Webinar on Globally scalable ayurvedic solution for diabetes and NCDs. |
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19. Special Training Attended -

- Two days training on **“Plantation techniques of Jatropha and Karanj and their use as bio fuel”** during Feb. 28-29, 2004 at C.S.A.U.A. & T., Kanpur.
- 52 days **Corporate Training Course on Computer** during 10-03-04 to 30-04-04 at APTECH, Kanpur.
- 10 days Model training course on **“Seed Production, Processing and Marketing”** during March, 21 to 30, 2005 at NSC, New Delhi.
- 21 days training on **“Management Strategies for Sustainable Crop Production in Dry Areas”** during November 7 to 27, 2005 at G.B. Pant Univ. of Agric. & Tech., Pantnagar.
- 21 days summer school on **“Crop Diversification through Pulses for Sustainable Production”** during August, 10 to 30, 2006 at IIPR, Kanpur.
- 21 days training on **“Communication Skills and Personality Development”** during March 4-29, 2008 at C.S.A.U.A. & T., Kanpur.
- 21 days winter school on **“Strategies for Augmenting Rhizosphere for Sustaining Soil Fertility and Productivity”** during Nov. 3-24, 2008 at IARI, New Delhi.
- 7 days training on **“Educational Methodology and Instructional Technology”** during 03-09 January 2008 organized by NAARM at BAU, Ranchi.
- 14 days training on **“Communication Skill and Creative Writing”** during Feb. 11-28, 2009 at C.S.A.U.A. & T., Kanpur.
- 17 days training on **“Application of Computer, Internet and its uses”** during 26.02.09 to 14.03.09 at ARISCELL of C.S.A.U.A. & T., Kanpur.
- 8 days training on **“Weed Management in Field crops”** during January 4-11, 2010 at Directorate of weed science research, Jabalpur.
- Nominated as read specialist weed science specialist to participate in meeting to prepare rabi Faslo ki saghan padhatiyan 2010 at directorate of Agriculture Lucknow vide order 272/DR/2010 dated 8.07.2010.
- 14 days training on **“Scaling-up of Water Productivity in Agriculture for Livelihood”** During 20 Dec. 2009 to 02.01.2010 at C.S.A.U.A. & T., Kanpur.
- 21 day training on **“Weed Management through Chemical and Non-Chemical Method”** during 15 Nov., to 06 Dec., 2010 at IARI New Delhi.
- Strengthening Statistical Computing for NARS – duration 19–24 March, 2012 organized by IVRI, Izatnagar at C.S.A.U.A. & T., Kanpur.
- Two day Training on **“Village Level Aquifer Management Plan”** during 07.03.2013 to 08.03.2013 organized by Central Ground Water Board, Northern Region, Lucknow at Kanpur.
- Two day Training on **“Integrated Development of Tree Borne Oilseed in Wasteland / Degraded land”** during February 16 -17, 2013 funded by NOVOD Board, Gurgaon, Haryana at CSAUA&T, Kanpur.
- Attended two day international training on **“Modern Techniques on potato cultivation at Kannauj** during 27-28 October, 2014 jointly organized by directorate of Horticulture and CSAUA&T, Kanpur.

- Attended two day international training on “Agriculture research with relation to IPR during August 16-17, 2017 organized by C.S.A.U., Kanpur and sponsored by IPR cell, UPCAR, Lucknow.

20. Lectures Delivered:

| S. No. | Topic | Date | Training/Gosthi |
|--------|--|------------------|--|
| 1. | Weed Problems in Horticultural crops and their management. | 24.01.2017 | Training on “Ecofriendly and synergistic management of Horticulture Crops for cropping the income of Farm Families for KVK Scientists of CSAU, Kanpur. |
| 2. | Weed management in Rabi Crops. | 04.10.2016 | All India Farmers fair and agriculture exhibition held at CSAU, Kanpur during 03-06 Oct, 2016 |
| 3. | Weed management in Vegetable crops. | 31.03.2017 | farmers training programme on Participatory qualitative vegetable seed Production at Vegetable department of CSAU, Kanpur |
| 4. | Integrated Farming System an approach for lively hood security of small and marginal farmers | 24.6.2016 | Workshop cum training programme for instructional farm management for farm manager/SMS at ATARI, Kanpur |
| 5. | Weed Management in wheat | 20-21 Feb., 2016 | Conference on resent advances in diversified agriculture at Chaudhary Chhotu Ram PG College, Muzaffar Nagar (UP) |
| 6. | Integrated Farming System | 20-6-2016 | Training on “Diploma in agriculture extension services for input dealers” at Directorate of Ext., CSAU, Kanpur |
| 7. | Integrated Nutrient Management is a basic factor for sustainable agriculture | 28-10-2015 | Training on “Natural Resource Management” for heads and scientists of KVKs. |

21. Activities Performed:

- Unopposed elected council member of Alumni Association of CSAU, Kanpur Since, 2016
- Member of Research Advisory Committee of Agronomy department since 2007.
- Comparing of whole Republic day Programmes held during 26 Jan, 2017 at main building of CSAU, Kanpur(CSUW-791/2017 dated Jan, 23,2017)
- Comparing of whole Independence day programme held during 15 August 2016 at main building of CSAU Kanpur (CSUW-395/2016-17 dated August, 10,2016)
- Organising member and comparing on Gandhi Sharstri Jayanti celebrated on 2nd october, 2016 at Gandhi Hall of CSAU Kanpur (CSUW-556/2016-17 dated September 29,2016)

- Member of Announcement committee and multimedia committee, Kisan gosthi committee of All India Farmers' fair and Agriculture exhibition held at Stadium ground of CSAU, Kanpur during 3-6 october, 2016
- Member of dispute resolve committee during University level literary competitions on quize, extempore & debate on 29-9-2016 at CSAU, Kanpur
- Member of Consultancy and contractual Project Monitoring Committee(CSUW-49/F.N. 951/2017 dated 9.6.2017)
- Member of University purchase committee since 2017.
- Chairman of multimedia committee, member of announcement committee during All India Farmers fair and exhibition held at CSAU Kanpur during 5-8 Oct, 2017.
- Comparing during the orientation of new admitted students on july 20, 2016(CSUD-644/2016-17) dated July, 2016
- Joint editor in editorial board of CSA News latter 16.02.2016
- Member of organising committee, welcome committee, dispute resolve committee, Announcement committee, and Media Committee during Annual Agri-Sports & games meet held at CSAU kanpur during 20-21 March, 2017.
- Nodel Officer to help and Comparing during the visit of monitoring and review team of ICAR at the university during 21-23 Feb, 2017.
- Member of Technical session committee, fund raising committee, Announcement committee and convener of campus beautification committee, during 6th AGM –Alumni meet and National conference on farmers centric Agri-innovation for sustainable development during March 24-25, 2017.
- Member of Photography, Press, Doordarshan and Akaswani and Announcement committee, during the 18th convocation held at CSAU Kanpur on 23.3.2017. Comparing of whole programme was done by me.
- Member of committee for renovation and opening of swimming pool of the university(vide letter no. (CSUW-844/2016-17 dated 14.02.2017)
- Organising member of inter semester Cricket Championship-2017 held during 4-12 feb, 2017 at football ground of CSAU kanpur
- Member of the committee constituted for infrastructure development and quality work for seed hub (letter 15/SH/2017 dated 02.02.2017)
- Nominated scientist by HoD Agronomy to provide weekly Agro Advisory to the farmers vide letter No. AGR-En/673/2017 dated Jan11, 2017.

22. Professional Status:

- Life member of **Society for Recent Development in Agriculture**, SVP, Univ. of Agric. & Tech., Meerut.
- Life member of **Farming System Research And Development Association**, Modipurum, Meerut
- Life member of **Indian Society of Agricultural Biochemists**, C.S.A.U.A.&T, Kanpur
- Life member of **Society of Agricultural Professional**, C.S.A.U.A.&T., Kanpur
- Life member of **Hi-tech Horticultural Society**, Meerut
- Life member of **Alumni Association**, C.S.A.U.A.&T., Kanpur

- Life member of **Indian Society of Vegetable Science**, IIVR, Varanasi
- Life member of **Indian Society of Weed Science**, Directorate of Weed Science Research, Jabalpur
- Life member of **Indian society of agronomy**, IARI, New Delhi
- Annual member of Global Economic Progress & Research Association, Chennai.
- Life member of Uttar Pradesh Academy of Agricultural Science.
- Life member of Research & Education Development Society.
- Life member of Indian Journal of Agrometeorology.

23. Outreach Extension Activities:

1. Made documentary film on university achievements – Two
2. Delivered Radio Talk on various Agriculture Topics – 15
3. Delivered Television Talk on various Agriculture Topics – 20
4. Regularly participated as a **Expert Scientist in Scientists' vs Farmers' Interaction Programme** in every month at Extension Directorate of the University.
5. Regularly participated as **Expert Scientist in Scientists' vs Agriculture officers' Interaction Programme** in every month at Extension Directorate of the University.
6. Organized and actively participated in Parthenium Awareness Week every year to aware the people about harmful effect of parthenium.
7. Participated in several Krishak gosthi and farmers' fairs every year organized by the university and state agriculture department.
8. Participated and convened several Krishak gosthies during awareness programme on Climate change organized by Department of agronomy.
9. Nominated as Expert trainer for providing training to extension personals.
10. Conducted On-Farm Trails and Front Line Demonstration on farmers' field for increasing the adoption level of weed management technology and improved agro-techniques of oil seed and pulses.
11. Organized Field Day Programme at farmers' field during both Kharif and Rabi season.
12. Participated as weed expert for preparation at **"Kharif and Rabi saghan Padhattiyan"** at Directorate of Agriculture, Lucknow (U.P.).
13. Made success stories of various farmers' regarding technology adoption.
14. Conducting On-Farm trails on farmers' field for increasing the adoption level of profitable cropping systems and Agro techniques.
15. Conducted Front Line Demonstrations' on Oilseeds and Pulses to reflect improved Agro technology at farmers' field.
16. Conducted Benchmark survey of the farmers' of the District Kanpur Dehat to study the constraints and made interventions accordingly.
17. Made contribution in preparation of Documentary film for DD Kishan Chanel during 18 & 19 March, 2015.
18. Participated in climate change awareness farmers training programme under NICRA on 16.02.2015.

24. Special Assignment –

1. **Executive member** of society of agricultural professionals.
2. Member expert in Scientist vs Government officers' interaction programme.
3. Member expert in Scientist vs Farmers' interaction programme.
4. Member and convener of various executive committees constituted for different activities in the university.
5. Examiner and papers setter of various universities and institutions of the country.
6. **Member of HRD Cell** constituted in the University vide order No.CSUH-667/Qk0u0/lizv/2012 September 24, 2012 to till now.
7. **Joint Editor** of C. S. A. News letter vide letter No. 1931/fuizv/2012-13 dated September 14, 2012 to till now.
8. Member of weather forecasting advisory committee at C. S. A. University of Agriculture and Technology, Kanpur.
9. **Member of Board of Study** of C.S.J.M., University Kanpur for three year during 2013 to 2016.
10. Member of ATIC advisory committee. Vide order No. 2568-79/fu0iz0v0/2013 dated November 14, 2014 to till now.
11. Incharge of OFR Centre Daleep Nagar under AICRP-IFS vide order No. CSUH-655/lizv/Qk0u0&293/2013 dated 11.11.2013 to February, 2015.
12. Member of specialist Team of Kisan Gosthi organised during farmers' fare to till now.
13. **Associate Editor** of Krishak Bharti Patrika published by C. S. A. University, Kanpur 2013 to till now.
14. Member of Technical session committee under the Nation conference on farmers' centric Agri innovation for sustainable Development 24-25 March, 2017 at C.S.A.U., Kanpur.

PUBLICATION OF DR. NAUSHAD KHAN –**A. Published Research Paper (S):-**

1. **Naushad Khan** and Karam Husain (1999). Performance of mustard varieties in relation to doses of sulphur. *Advances in plant sciences-an international journal* 12 (1):115-118.
2. Dubey A. P., Singh C. B., **Khan N** and Chandra Mukesh (2008). Influence of weather parameters on wheat yield and its domestic medicinal value under varying sowing dates. Published in – proceeding of national symposium on National emerging analysis challenges in harnessing plant biodiversity, marketing and export potential of medicinal and aromatic plant held at C.S.A.U.A.&T., Kanpur during , Jan 28-30, 2008. pp110-112.
3. Yadav R. A., Singh H.P., Yadav M. P., **Khan Naushad** and Chandra D.R. (2008). Studies on intercropping in sesame involving new crop combination in Bundelkhand tract of U.P. *Plant Archives* 8(2): 1007-1008.
4. Dubey A. P., Singh C. B. and **Khan N**. (2008). Influence of weather parameters on wheat yield under varying sowing dates. *Journal of Agrometeorology (Special issue)* 2:457-461.
5. Pyare Ram, Prasad Kedar, Dixit Vivek, **Khan Naushad** and Sonkar T.C. (2008). Effect of Row Spacing and sulphur on growth, yield attributes. Yield and economics of Mustard (*Brassica Juncea L. Czern & coss*) *plant archives* 8(2): 633-635.
6. Yadav R.A., Mathuria O. P., Singh H. P., Yadav M P and **Khan Naushad** (2008). Optimization of Sesamum production under resource constraints. *Plant archives* 1(2): 999-1001.
7. **Khan Naushad**, Tripathi A.K. and Dubey A.P. (2009). Effect of integrated nutrient management on productivity and profitability of garden pea (*Pisum Sativum L. Subsp. Horitense*) in central plain zone of utter Pradesh *current advances in agricultural sciences* 1 (2): 91-93
8. **Khan Naushad**, Tiwari A.N., Yadav M. P., Siddiqui M.Z. (2009). Rational nutritional requirement of potato through weed management in prevailing Maize-Potato-Sunflower cropping system of central plain zone. *Progressive Agriculture-an international journal* 9(2): 273-276.
9. Mishra Akhilesh, Prasad Kedar, Swarnkar G. B., Rai Gita and **Khan Naushad** (2009). Studies of grain yield and yield components of long duration Pigeonpea (*Cajanus Cajan L. mill sp.*) as influenced by planting method and plant population. *Legume research* 32(3):230-232.
10. **Khan Naushad**, Dubey A. P., Pyare Ram and Mishra A. (2009). Integrated Nutrient management in Broccoli (*Brassica oleracea L. Italica Plenck*). *Plant Archives* 9(1): 423-425.
11. **Khan Naushad**, Sanjiv Kr. Singh, Srivastava J. P. and M. Z. Siddiqui (2010). Effect of biofertilizers on production potential and economic feasibility of cauliflower (*Brassica oleracea L. var. Botrytis*). *Progressive Agriculture an international journal* 10(2):371-373.
12. **Khan Naushad** and Yadav, R. A. (2010). Effect of planting dates and spacing on growth and yield of Broccoli (*Brassica oleracea var. italic L.*). *Ann. Agric. Res. New Series Vol. 31 (3&4): 82-84.*

13. Sunil Kumar, S.K. Biswas, Prem Naresh, Shrawan Kumar and **Naushad Khan** (2012). Evaluation of SAAF with other fungicides and biocides against sheeth blight of paddy caused by *Rhizoctonia solani*. *International journal of Bio-resource and stress management* 3 (1) : 245-248.
14. Sanjive Kumar Singh, **Naushad Khan** and S. D. Dutta (2013). Effect of Standardization of package of practices for Zamikand (*Amorphophallus campanulatus* Blume) Cultivation. *Hort flora Research Spectrum*, Journal Vol: 2(2): 182-183.
15. Yadav R. A., **Khan, Naushad**, Siddiqui M. Z. and Singh, Rajveer (2013). Effect of “Bio-efficacy of pinoxaden 5EC in combination with broad leaf herbicides against complex weed flora in wheat”. *“Highlights of wheat and Barley Research”* published during All India Wheat and Barley Workshop held at CSAUA&T, Kanpur during September 1-4, 2013. PP: 84-87.
16. M H Ansari, B K Verma, M A Ansari, Dushyant Mishra, A K Srivastava, **Naushad Khan** and Mohd. Saquib. 2015 “Impact of cropping pattern on growth, yield attributes and system productivity of citronella (*Citronella winterianus*)-pulses intercropping system in Central India” *Indian Journal of Agricultural Sciences* 85(3): 392-6.
17. **Naushad Khan**, Manyank Dubey and U.S. Tiwari. 2015 “Integrated farming systems: an approach for livelihood security of small and marginal farmers” *I.J.S.N.*, VOL. 6(3) 2015:515-520 (ISSN 2229-6441)
18. **Naushad Khan**, Mayank Dubey, &, U. S. Tiwari. 2015 “Study of economically viable farming system model for marginal farmers in central plain zone of U.P., India.”, *global general of bioscience and biotechnology*. Global Journal of Bio-Science and Biotechnology., Vol. 4(2)2015:252-254 (ISSN 2278-8891).
19. U.S.Tiwari, **Naushad Khan**, M.P. Yadav and Mayank Dubey. 2015 “Effect of Different Cropping Systems on Crop Productivity, Profitability and Soil Properties in Alluvial Tract of Uttar Pradesh, India” *Indian Journal of Ecology* (2015) 42(2):476-478.
20. MZ Siddiqui, RA Yadav, **Naushad Khan**, GS Parihar and Arvind Kumar (2016). Bio efficacy of herbicides against different flora of weed in Central Plain Zone of Uttar Pradesh. *Annals Agriculture Research new series* Vol.- 37 (2): 184-188.
21. M.H. Ansari, R.A, Yadav, M. Z Siddiqui, M.A. Ansari, **Naushad Khan**, Dusyant Mishra and Karam Husain (2017) “Efficacy of crop establishment techniques and weed control measure on weed dynamics, weed control efficiency and productivity in rice (*Oryza sativa*). *Indian Journal of Agriculture science* 87 (8): 1084-8”
22. MH Ansari, RA Yadav, MZ Siddiqui, MA Ansari and **Naushad Khan** (2017). Efficacy of sesbania brown manuring and weed management approaches improve the production and weed control efficiency in transplanted rice. *Journal of crop and weed* 13 (1):142-150.
23. M Saquib, Ripudaman Singh, Hemant Kumar, MP Yadav and **Naushad Khan** (2017). Super imposition of organic sources of manure enhance yield and quality parameters of scented rice (*Oryza sativa* L.) in Indo-gangetic Plain Zone. *Plant archives* Vol-17 No.-2 pp-1765-1768.
24. M Saquib, Ripudaman Singh, Hemant Kumar, MP Yadav and **Naushad Khan** (2017). Super imposition of organic sources of manure enhance growth, yield attributes and yield of scented rice (*Oryza sativa* L.) and its impact on soil health. *Plant archives* Vol-17 No.-2 pp-1607-1611.
25. **Naushad Khan**, Sanjay Chaudhary, M.Z. Siddiqui, R.A. Yadav & Karam Husain (2017). “Effect of Weed Management option and nitrogen scheduling on weed dynamics and yield of wheat (*Triticum aestivum* L) under Central Plain Zone of Uttar Pradesh”. *Indian Journal of Agronomy* 62(4): 464-469.

26. Sanjay Chaudhary, **Naushad Khan**, Uday Pratap Singh, Ram Pyare, Y.K. Singh, A.K. Srivastava, V.K. Verma and Gautam Veer Chauhan (2017). "Effect of Integrated Nutrient Management on Productivity and Economics of Wheat (*Triticum aestivum* L)." *Indian Journal of Agronomy* 67(4): 476-480.
27. MH Ansari, MA Ansari, RA Yadav, MZ Siddiqui and **Naushad Khan** (2018). Weed control and productivity studies in direct seeded *oryza sativa* L. through *sesbania* brown. *Bangladesh J. Bot.* 47(2): 227-235.
28. Santosh Kumar Chaudhary, MP Yadav, DD Yadav, **Naushad Khan**, DK Mishra, Sushil Kumar Yadav and Anjani Kumar Singh (2018). Response of need based nitrogen application on growth and yield of rice (*Oryza sativa* L.) in irrigated transplanted condition in North India. *Journal of Pharmacognosy and Phytochemistry*. Pp 3268-3273
29. Pramod Kumar, **Naushad Khan**, Prashant Deo Singh, Anand Singh, Yogesh and Vikas Yadav (2018). Panchgavya: A low cost organic input in organic farming- review *International Journal of chemical studies*. PP 6(6):575-577
30. Pramod Kumar, **Naushad Khan**, Prashant Deo Singh, Anand Singh and Sanjiv Singh (2018). Study on weed management practices in rice – a review, *Journal of Pharmecognosy and Phytochemistry*. PP 7 (3): 817-820.
31. AC Yadav, Karam Husain, V.K. Verma, US Tiwari, **Naushad Khan** and MZ Siddiqui (2019). Effect of land configuration and nutrient management on growth and yield of hybrid Maiz. *Journal of Pharmacognosy and Phytochemistry*, 8(4): 602-606
32. Vikas Tomar, **Naushad Khan**, Ravinder Tomer & Narinder Panotra(2020) Effect of chemical weed management and sowing method practices in late sown wheat (*Triticum aestivum* L.) *International Journal of Chemical Studies*8(2):2326-2329
33. **Naushad Khan**, Ajay Kumar, Vijay Dubey, C.B. Singh, Sanjeev Kumar and Shubham Singh (2020) Estimated yield forecasting of rice and wheat for Central Uttar Pradeash using statistical model. *International Journal of Current Microbiology and Applied Sciences*, 9(8):xx-xx
34. **Khan N.**, Kumar A., Singh C.B., Lal G., Mishra S. And Singh S.(2020) Farmers feedback about the agro-met advisory services (AAS) during lockdown period (COVID-19) at district Kanpur, Uttar Pradesh. *International Journal of Agricultural Sciences*, 12(15): 10107-10108
35. Gurumukh Gyani, **Naushad Khan**, MH Ansari, MZ Siddiqui, Huma Naz, Abdul Moied and Anil Kumar (2020). "Planting pattern and weed management practices on productivity of onion (*Allium cepa* L.). *Journal of Pharmacognsy and Phytochemistry*, 9(5): 2140-2144
36. Vishal Singh, **Naushad Khan**, Utkarsh Singh and Raghvendra Singh. Herbicidal combinations for managing weeds and improving crop productivity in summer blackgram. *Indian Journal of Weed Science* (2022) 54 (3):321-323
37. Satyaveer Singh, M. Z. Siddiqui and **Naushad Khan**, R.A.Yadav, D.D. Yadav, Sanjeev Kumar & Sudheer Pal. Effect of Land Configuration and weed management practices on yield and yield attributes of hybrid maize (*Zea mays* L.) during *Kharif* season. *The Pharma Innovation Journal*11(4): 2132-2138 (2022). NAAS rating 5.23
38. Satyaveer Singh, M. Z. Siddiqui and **Naushad Khan**, R.A.Yadav, D.D. Yadav, Sanjeev Kumar & Sudheer Pal. Effect of Land Configuration and weed management practices on productivity and profitability of hybrid maize (*Zea mays* L.) during *Kharif* season. *The Pharma Innovation Journal*11(5): 260-264 (2022). NAAS rating 5.23
39. Mandeep Kuamr, **Naushad Khan**, Ravindra Sachan and Abhishek Tiwari. Effect of different sowing environment on growth parameters, yield and yield components of Chickpea (*Cicer arietinum* L.) varieties. *International Journal of Plant & Soil Science* 34(20):679-687(2022).
40. Mandeep Kuamr, **Naushad Khan**, Ravindra Sachan, Sharvan Kumar Maurya and Durgesh Kumar Maurya. Effect of thermal unit and heat use efficiency at various phenophases of

- Chickpea (*Cicer arietinum* L.) cultivars. *Biological Fourm-An International Journal* 15(3):583-588(2023).
41. Sunil Kumar Prajapati, V.K. Verma, **Naushad Khan**, Shivendra Singh, Gurwaan Singh, Shivam Yadav (2024). Impact of organic and inorganic plant growth promoters on growth indices and yield of wheat (*Triticum arietinum* L.). *Environment and Ecology* 42(1):84-93, January-March (2024).
 42. Shailendra Pratap Singh , C. L. Maurya and Naushad Khan (2024). Feasibility of Parallel Cropping of Black Gram with Pigeon pea in Central Trait of Uttar Pradesh. *Journal of Experimental Agriculture International* Volume 46, Issue 5, Page 360-365, 2024; Article no.JEAI.114012 ISSN: 2457-0591
 43. Shivendra Singh, Ram Ashish Yadav , Sunil Kumar Prajapati, Pradeep Kumar , Parthik Gangwar, Prashun Sachan and Naushad Khan (2024). Effect of Different Doses of Herbicides on Growth and Yield in Maize (*Zea mays* L.) *Journal of Experimental Agriculture International* Volume 46, Issue 5, Page 494-499, 2024; Article no.JEAI.114592 ISSN: 2457-0591.
 44. Shailendra Pratap Singh, Naushad Khan, C. L. Maurya, Bal Veer Singh, Kaushal Kumar and Sarvesh Kumar (2024). Effect of Companion Cropping of Sesame on Development of Pigeonpea. *International Journal of Environment and Climate Change* Volume 14, Issue 4, Page 57-61, 2024; Article no.IJECC.114009 ISSN: 2581-8627.
 45. Shivendra Singh, Ram Ashish Yadav , Sunil Kumar Prajapati, Pradeep Kumar, Praveen Kumar Yadav, Naushad Khan and Prashun Sachan (2024). Impact of Different Doses of Herbicides on Weed Density and Weed Control Efficiency in Maize. *International Journal of Plant & Soil Science* Volume 36, Issue 5, Page 425-431, 2024; Article no.IJPSS.114591 ISSN: 2320-7035.
 46. Sunil Kumar Prajapati, V. K. Verma, Naushad Khan, Shivendra Singh, Gurwaan Singh, Shivam Yadav (2024). Impact of Organic and Inorganic Plant Growth Promoters on Growth Indices and Yield of Wheat (*Triticum aestivum* L.) Varieties. *Environment and Ecology* 42 (1) : 84—93, January—March 2024 Article DOI: <https://doi.org/10.60151/envec/ZYBJ8353> ISSN 0970-0420.
 47. Shailendra Pratap Singh, C. L. Maurya, Naushad Khan, Bal Veer Singh, Kaushal Kumar and Sarvesh Kumar (2024). Productivity and economic feasibility of Pigeonpea base companion cropping under additive series planting system. *Journal of Advances in Biology & Biotechnology*. Volume 27, Issue 5, Page 277-280, 2024; Article no. JABB.114014 ISSN: 2394-1080.
 48. Naushad Khan, Shivendra Singh, Pradeep Kumar, Dhruvendra Singh Sachan (2024). Crop Residue Management for Sustainable Agriculture. *Climate Change and Agriculture- Its Impact and Mitigation Potential* <https://www.kdpublications.in> ISBN: 978-81-973427-0-7.
 49. Shailendra Pratap Singh, U.D. Awasthi, C. L. Maurya, Naushad Khan and Harshit Gupta (2024). Studies in intercropping of black gram and sesame with pigeonpea under rainfed condition of Uttar Pradesh. *AMA* ISSN:00845841.
 50. M.Z. Siddiqui, 2Naushad Khan and 3Bal veer Singh (2024). The Role of Nanoparticles in Enhancing Soil Nutrient Delivery for Sustainable Agriculture. *Global Agri Vision* 2024, 9(9):70-82 e-ISSN: 2583-9683 Dec 2024.
 51. Naushad Khan and Bal veer Singh (2024). Nanoparticle-based Soil Amendments for Improved Soil Structure and Fertility. *Global Agri Vision* 2024, 13(9):16-23 e-ISSN: 2583-9683 Dec 2024.

B. Published Abstract papers –

a. In International conference –

1. Rai B, **Khan Naushad**, Singh S K and Rai Rajesh (2004). Use of biofertilizer (*Azospirillum*) in chilli. Paper presented and published in abstracts of international seminar on “Recent trends in Hi-tech – horticulture & post harvest technology” held at C.S.A.U.A.&T., Kanpur during February 4-7, 2004: pp-165.
2. **Khan Naushad**, Rai B, Singh SK and Rai Rajesh (2004). “Response of capsicum to foliar application of micro nutrients “ paper presented and published in abstracts of international seminar on “Recent trends in Hi-tech horticulture & post harvest technology” held at C.S.A.U.A.&T., Kanpur during February 4-7, 2004: pp-169.
3. **Khan Naushad**, Singh Pitam, Srivastava J.P. (2006). Effect of biofertilizers on fruit yield and biochemical composition of Tomato (*Lycopersicum esculentum L.*). Paper presented and published in abstracts of international conference on “post harvest technology and value addition in cereal pulses and oil seeds” held at C.S.A.U.A.&T., Kanpur, India during November 27-30, 2006: pp-155.
4. **Khan Naushad**, Srivastava J.P, Tripathi A K and Shukla I.N. (2007). Effect of biofertilizers on production potential and economic feasibility of cauliflower. Paper presented and published in abstracts of international conference on “sustainable Agriculture for food, bio-energy and livelihood security” held at JNKVV, Jabalpur (M.P.), India during Feb. 14-16, 2007: pp-95.
5. Tripathi AK, Kumar Anand, Nath Somendra, Tripathi H N, **Khan N.** (2007). Intercropping compatibility of different crops with winter maize in central uttar Pradesh. Paper presented and published in abstract of international conference on “sustainable agriculture for food, bio-energy and lively hood security” held at JNKVV, Jabalpur (M.P.), India during Feb. 14-16, 2007: pp-94.
6. **Khan Naushad**, Tripathi A.K., Dubey A. P. and Tomar A.K. (2009). Production potential and economic evaluation of potato and rajmash with winter maize in Central Plain Zone of U.P. paper presented in international conference on “grain Legumes: Quality improvements, value addition and trade” held at IIPR, Kanpur during Feb. 14-16, 2009.
7. Yadav, M. P, Tiwari U. S., **Khan, Naushad** and M, Aslam. (2012). Effect of Integrated Nutrient Management on System Productivity and Soil Health in Rice-Wheat Cropping System. Extended Summaries – at 3rd International Agronomy Congress on “Agriculture diversification, climate change management and livelihoods” held at IARI, New Delhi during November 26-30, vol.(2):24
8. **Naushad Khan**, Karam Husain, S. Solomon, C.B. Singh, Ajay Kumar And Vijay Dubey (2019). “**Appraisement of climate change at phonological stages of sugarcane in Central Plain Zone of Uttar Pradesh**”. Green Technology for sustainable development of sugar and Integrated Industries. International Conference Sugarcon pp-184-185, 2019.
9. **Naushad Khan**, Ajay Kumar, C.B. Singh, Sanjiv Kumar, Vijay Dubey And Gendan Lal (2019) “**Assessing the impact of thermal regimes in wheat yield predication in Central Plain Zone of Uttar Pradesh**” *National Conference on Plant health Management for Eco friendly and Sustainable Agriculture (IPSMEZCON-2019)*. PP-109, 25-26 November, 2019.

10. **Naushad Khan**, Ajay Kumar, C.B. Singh And Gendan Lal (2020) “**Production potential studies of chickpea varieties under variable weather conditions of Central Plain Zone of Uttar Pradesh**”. ISPP North Zonal Seminar on Crop productivity and stress Management. PP-4 Feb., 2020
11. **Naushad Khan**, Ajay Kumar And Promod Kumar (2020) “**Studies of herbicide combination for controlling mixed weed flora in irrigated wheat (*Triticum aestivum* L.) under changing climate condition of Central Plain Zone of Uttar Pradesh**”. ISPP North Zonal Seminar on crop productivity and stress Management. PP-67 Feb., 2020
12. **Naushad Khan**, Ajay Kumar, Vijay Dubey, Sanjiv Kumar, C.B. Singh, And Digvijay Dubey (2019) “**Estimated yield forecasting of rice for central Uttar Pradesh using statistical modal**” Acceptance for poster presentation and invitation to attend the National Seminar on Agometeorological Interventions for Enhancing Farmers Income (AGMET-2020) dated on 20-22 January, 2020.

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Developed Agro Techniques-

a. Nutrient Management in Vegetable –

- The highest yield (89q/ha) and B:C ratio (1:2.85) of red riped chili (cv. Azad Mirch-1) was obtained with the application of 75% recommended dose of nitrogen along with seedling treatment with *Azospirillum*.
- The highest yield and B:C ratio (1:3.08) of Tomato (cv Azad Type-1) was obtained with five foliar spray of water soluble fertilizer (NPK - 17:10:27).
- The highest yield and B:C ratio (1:3.43) of capsicum (cv. California wonder) were obtained with the use of three foliar spray of micronutrients mixture (mixture of B, Zn, N, CU & F@100 ppm and Mo@50ppm) at 10 days interval after 30 DAT.
- The highest yield and B:C ratio (1:2.75) of cauliflower were achieved when 75% of recommended nitrogen dose was applied along with seedling treatments with *Azospirillum*.
- Maximum yield and B:C ratio (1:2.75) of broccoli (cv fiesta) were achieved when the crop was planted on 15th October with narrow spacing of 45x30 cm.
- Application of neemcake (5q/ha) and remaining NPK through chemical fertilizer in brinjal gave the highest yield (416q/ha) and B:C ratio (1:2.34). The residual effect of the same treatment was found best in okra crop as it produced the maximum yield (133q/ha) and B:C ratio (1:2.35).
- Application of 75% recommended dose of nitrogen along with treatment of seedling by biofertilizer gave significantly higher tomato fruit yield than 100% dose of nitrogen.
- The maximum fruit yield and B:C ratio (1:3.00) of tomato obtained when recommended fertilizer dose (120:60:60 Kg NPK/ha) was applied along with FYM@ (10 t/ha) and sulphur (25 kg/ha) as pre plant incorporation and foliar spraying of micronutrient mixture at 40, 50 and 60-day stage of crop and seedling treatment with *Azotobactor* also.
- The highest yield (225q/ha) and B:C ratio (1:3.68) of Cucumber was found when 1/2 recommended NPK dose along with FYM (10 ton/ha)+biofertilizer (5 kg/ha) were applied.
- Bitter guard yield could significantly be increased with three foliar spraying of micronutrient mixture at 40, 50 and 60- day stage of crop.
- Highest curd yield and B:C ratio (1:3.17) of cauliflower were obtained when Borax @ (10kg) along with sodium molyb-date @ (2 Kg/ha) were applied at the time of field preparation.
- The weed population and its dry weight were found higher in before onset monsoon sowing in comparison to after onset monsoon sowing. Significantly higher yield (44.64q/ha) and net return (Rs. 12939/ha) were obtained from after onset monsoon sowing.

b. Weed management techniques –

i. Rice -

- Butachlor (1.5kg a.i./ha) + one hand weeding has been recommended for significant weed removal and yield enhancement in Rice.
- In direct seeded rice, Pyrazosulfuron (25g a.i./ha) followed by one hand weeding is recommended for maximum weed reduction and yield enhancement.
- Significantly minimum weed population and its dry weight and the highest rice grain yield were recorded with the application of cyhalofop butyle + almix (90g +20g/ha) followed by with bispyribac application (25g a.i./ha).

ii. Sugarcane + black gram/green gram:

- The pre-emergence application of pendimethalin (1.0kga.i./ha) in sugarcane gave the higher cane yield (554.02q/ha). Both the intercrop reduced the weed population satisfactorily.

- Weed population and its dry weight were recorded more in sugarcane + blackgram intercropping system in comparison to sugarcane + greengram intercropping system.
- The pre-emergence application of pendimethalin (1.0kg/ha) recorded minimum weed population and its dry weight and resulted more grain yield of greengram and blackgram.
- The more sugarcane yield was obtained under sugarcane + blackgram intercropping system (521.50q/ha) in comparison to sugarcane + green gram (428.47q/ha) intercropping.

iii. Rice-Wheat cropping system

Rice:

- Preemergence application of has been recommended in Rice for significant reduction for wheat Anilophos (0.50 kg a.i./ha).
- Conventional tillage along with application of pendimethalin (1.0 kg/ a.i./ha) followed by almix (4g a.i./ha) is recommended for rice to reduce weed population and to enhance yield and net income.

Wheat:

- Applications of isoproturon (0.75kg/a.i./ha) tank mixed with 0.1% surfactant is recommended for weed removal and achieving higher grain yield of wheat.
- There was sharp increase in the population of *P. minor* where isoproturon was applied regularly. The rotational use of clodinafop and isoproturon drastically reduced the population of *P. minor* and increased the grain yield.

iv. Garlic

- Pendimethalin (0.75 kg a.i./ha) as pre-emergence at 2-3 DAP followed by one hand weeding at 30 DAS is recommended for weed management in Garlic.

v. Linseed

- Pendimethalin (0.75 kg a.i./ha) as pre-emergence followed by hand weeding at 30DAS is recommended.

v. Wheat

- Sequential post emergence application of Pinoxaden (40g a.i./ha) followed by carfentrazon (25 g a.i./ha) is recommended for controlling grassy as well as broad leaved weed in Wheat.

vi. Rice

Direct seeded upland

- Butachlor (1.5 kg a.i./ha) as pre-emergence with in 2-3 DAS in moist soil followed by one hand weeding at 25DAS.
- Pretilachlor (0.75 kg a.i./ha) as pre-emergence with in 2-3 DAS as pre-emergence in moist soil fb hand weeding at 25 DAS.

Transplanted

- Butachlor (1.50 kg a.i./ha), Pretilachlor (0.75 kg a.i./ha) or anilophos (0.5 kg a.i./ha) as pre-emergence application with in 3-4 DAT.
- Butachlor (1.5 kg a.i./ha) or pretilachlor (0.75 kg a.i./ha) with in 3-4 DAT as pre-emergence followed by 2,4-D (0.5kg a.i./ha) at 20- 25 DAT.

C. Profitable Cropping / Farming Systems.

- Maize + blackgram-potato-onion crop sequence was found biologically efficient and most productive over rice as well as other maize based cropping systems by giving 32.27 t/ha rice equivalent yield followed by Maize+Green gram-Potato-Wheat (24.93 t/ha) cropping systems. The lowest REY (12.84t/ha) was obtained under Rice-wheat cropping system. The

maximum net return of Rs. 2,13,832 /ha was also obtained through Maize + blackgram-potato-onion followed by Maize+Green gram-Potato-Wheat (Rs1,48,635/ha), where as, Hybrid rice-wheat crop sequence was found most economical by giving 1:2.83 B:C ratio followed by Maize+Blackgram–Potato-Onion by B:C ratio of 1:2.71.

- On the basis of 29 cycles of long term (1983-2011-12) INM experimentation on Rice – Wheat system it could be drawn that total grain yield of whole system was recorded maximum with 100% NPK through fertilizer but it was found at par with substituting 50% N through Green Leaf Manure in rice and using only 100 % chemical fertilizer in wheat. This study indicated that system productivity can be enhanced and sustain through the integration of organic and inorganic sources of nutrients on long term basis.
- An On station IFS Model established with three enterprises i.e. crop production, dairy and horticulture in 01 ha of land allotted at CSAUA&T, Kanpur. During 2011-12 and 2012-2013 total net income of Rs. 1,01,844 and 97,405 was recorded from on station model, respectively.
- Under the Experiment climate change, the highest rice equivalent yield (15070 kg/ha) and net income (Rs. 94782) was recorded under Maize-wheat-Green gram (G+R) cropping system practiced under conventional sowing with residue mulch and recommended fertilizers. While minimum Rice equivalent Yield (8625 kg/ha) and net income (Rs27063/ha) was recorded under Sorghum – wheat – GG (G+R) system practiced under no tillage system. It is cleared from the result that addition of residue mulching and recommended dose of fertilizer showed positive effect on crop productivity in both the tillage systems under changing climate.
- Under the experiment nutrient response on farmers' fields of District Kaushambi, the highest yield of rice (4720kg/ha), wheat (4504kg/ha) and system productivity (9224 kg/ha) was recorded through receiving 100 Kg N, 50 Kg P₂O₅, 50 Kg K₂O & 25 Kg ZnSO₄/ha in *Kharif* and 120 kg N, 60 Kg P₂O₅ and 40 Kg K₂O in *Rabi* crop.
- The mean results of 10 years (2001-02 to 2011-12) experimentation of intensification of cropping systems at farmers' field reflected the highest wheat equivalent yield (6577 kg/ha) through Til-Pea crop sequence and this system fetched the highest net income of Rs 51,109/ha over all other crop sequences followed in District Kaushambi.

(Naushad Khan)