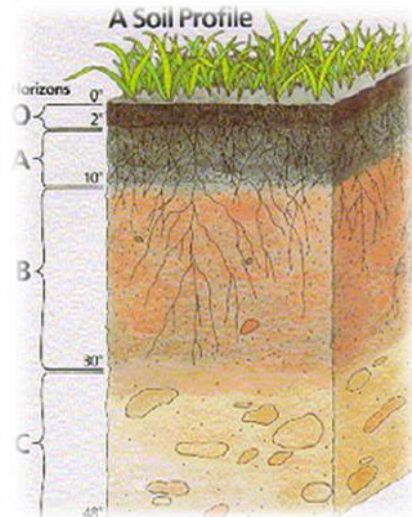


Department of Soil Science and Agricultural Chemistry
Shri Murli Manohar Town P.G. College
Ballia, U.P.
(Affiliated to Jananayk Chandrashekhar, Ballia)

1. About

The department of Agricultural Chemistry and Soil Science was started in 1957 as the Department of Agricultural Chemistry affiliated to Gorakhpur University, Gorakhpur for teaching of under graduate agricultural classes of two-year degree course. The Department along with college was re-affiliated by Purvanchal University, Jaunpur in 1988 and started B.Sc. (Ag.) four years course along with many changes in course curriculum. The College and department was affiliated to running under the University of Mahatma Gandhi Kashi Vidyapeeth, Varanasi since, July 2009. At present, the college and department is affiliated to Jananayak Chandrashekhar University, Ballia. The department was upgraded as the Post Graduate department of Agriculture since 2003.



2. List of Faculties

Dr. Ashok Kumar Singh

Qualification M.Sc. (Ag), Ph.D., FISAB
Designation Professor
Contact 9451462745
Email Id aksinghtdc@rediffmail.com
Specialisation and area of research Soil Science: Chemistry/Fertility/
Microbiology



Research Papers- 84, Seminars/ Conferences- 43, Books/Book Chapters- 05/06

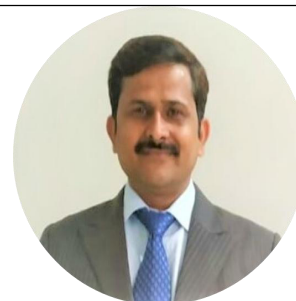
Awards/Recognition/honours-

12 Awards Including Honor from Govt. of UP., Fellow of Indian Society of Agricultural Biochemistry,
Chief managing Editor- Journal of Progressive Sciences
Deputy Editor- "Pratibha" Magazine of SMM Town PG College.
Member of District Environmental Committee

Other Related Information- Farmers meet conducted-13, Training Conducted-06,

Dr. Anil Kumar Singh

Qualification M.Sc. (Gold Medalist), Ph. D., NET,
PGDHE, FAESA, FSASS
Designation Assistant Professor (Senior Scale)
Contact 9800932210
Email Id singhani180@gmail.com
Specialisation and area of research Soil Science: Soil Chemistry/ Fertility/
Microbiology



Research Papers- 55, Seminars/ Conferences- 24, Books/Book Chapters- 02/08

Awards/Recognition/Honours-

09 Awards including Fellow, Agriculture and Environmental Science Academy, UK; Fellow, Scholars
Academy and Scientific Society, Assam; Advisory Board Member of Sci. Education and Technology
Foundation, UP and Life Membership of 8 Scientific Societies; Research Project Completed-06.

Other Related Information- Formerly:

- Soil Scientist, Tea Board of India, Ministry of Commerce & Industry, GOI
 - AAO (Scientist C), TTRI, TRA, Jorhat, Assam, India
-

3. List of Ex- faculties

- I. Dr. V.K. Nigam (1958 -1960)
- II. Dr. K. C. Srivastava (1960 –1961)
- III. Shri Arjun Singh (1964 – 2001)
- IV. Dr. K.S. Srivastava (1965 – 1968)
- V. Dr. C.P. Singh (1976 – 77)
- VI. Dr. Ram Vilash Pandey (1976 -1977)
- VII. Dr. Krishna Nand (1979 – 2003)
- VIII. Dr. Paras Nath Singh (1971 – 2011)

The department has upgraded by the teaching in Agricultural Chemistry and Soil Science (Post Graduate) in 2003 under self-finance Department and has got the permanent affiliation in 2008 by the Govt of Uttar Pradesh. The first batch topper Sri Deepak Rai was awarded the University Gold medal. The department has been engaged in soil testing Programme launched and financed by U. P. Govt. for two years during the headship of Sri Arjun Singh, for Soil testing of Ballia district. One major research project and one minor project under Dr. P.N. Singh funded by UGC were completed 2013. One research project under Dr. A. K. Singh funded by NABARD (Closed).

Extension Activity for Technology Transfer-

Organizer for Academic programme-

1. **Organizer Training on Regenerative Agricultural Technology 2021** - National webinar on food and nutritional security in climate change era: challenges and solution on 22nd June, 2020
2. **Organizer-** Innovative Exhibition and Award 2022 Sponsored by Science Club and National Children Science Congress on 28 March 2022
3. **Organizing Secretary-** National webinar on food and nutritional security in climate change era: challenges and solution on 22nd June, 2020
4. **Organizing Secretary-** workshop on Vigilance awareness Week, 2019
5. **Organizing Secretary-** workshop on Vigilance awareness Week 2018
6. **Organizing Secretary-** workshop on Science writing 18th to 20th February, 2018
7. **Organizing Secretary-** workshop on Science writing 15th to 18th February, 2017
8. **Organizing Secretary-** First Agriculture Alumni Meet and National Seminar on Agriculture Development 2015 on **5th November, 2015**
9. **Training Coordinator- 14 day Training on Soil Testing and Composting Technology** from 23rd June to 6th July 2015
10. **Convener-** 3 days farmers training programme on **Pashu Palko Hetu Prashikshan** from **28th July to 30th July 2011**

11. **Convener-** 3 days farmers training programme on **Use of fertilizers and agrochemicals form 13th November to 15th November 2010**
12. **Organize-** farmers sensitization and district farmers meet on 30th January, 2010 at Sant Gramyanchal College, Ballia
13. **Organize-** farmers sensitization and district farmers meet on 28th November, 2009 at Agriculture faculty, S. M. M. Town PG College, Ballia

Radio Talk- Dr. Ashok Kumar Singh has connected for *Kisan Vani* programme at All India Radio, Gorkhpur, Obra (UP), on Composting, Nutrient management for different crops and Soil management practices for raising healthy crops etc.

T.V. Talk- For Agriculture programme at Durdarshan Mau, Gorkhpur on Composting, Nutrient management for different crops and Soil management practices for raising healthy crops and environmental security etc.

UG Courses: Department offers UG and PG courses as per the guidelines of the Jananayak Chandrashekhar University, Ballia.

Publications:

Dr. Ashok Kumar Singh

Awards/Honors-

1. Received Farm food Award 2021 **for Agricultural technology transfer by Farm Foods Publication, New Delhi at Kishi Vigyan Kenda, Ballia (UP)**
2. Received honors for **best cooperation in academic work of College, 2018 by Town Educational Society, Ballia (UP)**
3. Received honors of **Nation Builder Award 2017 by Rotary India Literacy Mission, Rotary Club, India**
4. **Fellow (FISAB) 2016**, Indian Society of Agricultural Biochemistry, C.S.Azad University of Agriculture and Technology, Kanpur
5. Received honors by **Honorable Sri B. L. Joshi, Governor of Uttar Pradesh on 25 January 2014 for Excellent work for Voter's Awareness (SVEEP) 2014 In Ballia, Uttar Pradesh**
6. Received honors for **Excellent work for Voter's Awareness (SVEEP) 2013 by Sri Umesh Sinha, Chief Election Officer, Uttar Pradesh on 19 June,2013**
7. Received honors by **Dr. P. Nag, Vice Chancellor, M.G. Kashi Vidyapith, Varanasi on 24 September, 2013 for Excellent work for National Service Scheme as Programme Officer 2013**
8. Received honors for **Bhumi Nirman Best Editor 2009 by Bhumi Nirman Agriculture Newspaper, Bhopal**
9. Received honors for **best cooperation in academic work of College convocation, 2006 by Town Educational Society, Ballia (UP)**
10. Received honors for **Bhumi Nirman Best Editor 2004 by Bhumi Nirman Agriculture Newspaper, Bhopal**
11. Received honors for **Bhumi Nirman Best Articles in Agriculture 2003 by Bhumi Nirman, Agriculture Newspaper, Bhopal**

12. Received Commendation Certificate for Best Doctoral Research Presentation Award-2002 by Indian Society of Soil Science, New Delhi

Recognition

Councilor-Indian Society of Soil Survey and Land Use Planning, National Bureau of Soil Survey and Land Use Planning (ICAR), Nagpur Since -2014

Chief Managing Editor- Journal of Progressive Science, Jasper Progressive Science Society Ballia (UP) since February, 2009

Technical Editor- *Bhumi Nirman*- a monthly Agricultural News paper, Published from, E/8 Trilochan Nagar, Bhopal (MP) since, September 2004

Research and Teaching Experience-

Thesis (A) M.Sc. (Ag.)Thesis title- Microbial population in relation to fertilizer application in Greengram (*Vigna radiata* (L.) Wilczek) **(B) Ph. D-** Thesis title- Influence of neem products on urea transformation, microbial activities and N-use efficiency of paddy and wheat in different soils

(C) ICAR Institute-

➤ **Senior Research Fellow-** Identifying systems for carbon sequestration and increased productivity (NATP- Project RNPS-25) in semi-arid tropical environment from **3.11.2000-7.6.2001**

➤ **Research Associate -** 1) Establishment of critical limit of secondary and micronutrient of cotton (TMC-Project MMC-1/MM-2.1) - 2) INM for high quality fibre and yield of cotton from **8.6.2001-25.7.2005** at **Indian Institute of Soil Science (ICAR) Nabibagh, Bhopal (MP), India**

Membership of Academic Societies

1. Indian Society of Soil Science, IARI, New Delhi, since, 1996
2. Indian National Trust for Art and Cultural heritage, New Delhi, since, 2006
3. Indian Society of Agricultural Biochemist, CSAUA&T, Kanpur, since 2006
4. Indian Society of Soil Survey & Land Use Planning, NBSS&LUP, Nagpur, since 2009
5. Indian Society of Agricultural Chemists, Allahabad, since, 2005
6. Fertilizer Association of India, New Delhi

Ministry of Agriculture & Cooperation- Krishi Vistar Samiksha, Unnat Krishi, Intensive Agriculture

ICAR New Delhi- Indian Farming, Krishi Chayanika, since 2006

Radio Talk- For *Kisan Vani* programme at All India Radio, Obra (UP), since 2005 on Composting, Nutrient management for different crops and Soil management practices for raising healthy crops etc.

T.V. Talk- For Agriculture programme at Durdarshan Mau since 2008 on Composting, Nutrient management for different crops and Soil management practices for raising healthy crops and environmental security etc.

Extension Activity for Technology Transfer

Farmer's Meet/Gosthi- Attending as a **Subject Matter Specialist** in different farmers' meet/gosthi which has organizing by Dept. of Agriculture, NABARD and NGOs etc.in the district since July 2006.

Technical Editor

Bhumi Nirman- a monthly Agricultural News paper, Published from, E/8 Trilochan Nagar, Bhopal (MP) since, September 2004

Managing Editor- Journal of Progressive Science, Ballia since February, 2009

List of Publication-

National Journal

1. Singh, A.K.; Ram, H. and Maurya, B.R. (1998). Effect of nitrogen and phosphorus application on microbial population in Inceptisols of Varanasi. *Indian. J. Argil. Chem.*, XXX (2) 90-94
2. Singh, A.K.; Maurya, B.R. and Ram, H. (1998). Neem leaf extract controls ants on lemon plant. *Neem Newsletter*, 15 (3) 37
3. Singh, A.K.; Ram, H. and Maurya, B.R. (1999). Effect of nitrogen and phosphorus on microbial population, growth and nodulation of greengram (*Vigna radiata* (L.) Wilczek). *Journal of The Indian Society of Soil Science*, 47(1) 159-161
4. Maurya, B.R.; Singh, A.K. and Mangraj, B.N. (2000). Azolla Caroliniayana Ke Briddhi Aur Nitrogen Sthirikaran Par Zinc Aur Phosphorus ka Prabhav (Hindi), *Journal of Vijnana Parishad Anushandhan Patrika*, 43(1): 1-12
5. Rai, A.P., Mishra, S.K., Jha, C.K. and Singh, A.K. (2000) Status of different forms of sulphur in soils of Allahabad district. *Indian Journal of Agricultural Chemists*, XXXIII (2) 39-44
6. Singh, Ashok K. and Chandel, R.S. (2000) Efficacy of neem products coated urea for top dressing in rice, *Neem Newsletter* 17(2) 25-27.
7. Singh, Ashok, K. Ram, H., Maurya, B.R. and Jagdish Prasad (2006) Influence of neem (*Azadirachta indica* Juss.) products on urease activity and urea transformation in wheat grown soils. *Indian Journal of Fertilizers*.2 (2): 45-48
8. Yadav, P.K; Singh, Ashok K. and Maurya, B.L. (2007) Chromium effect on oil yield of Palmarosa (*Cymbopogon martini* L.) and intercropping of vegetable. *Indian Journal Agricultural Chemists*, XXXX (1) 17-21
9. Singh, Dhanveer; H.Ram; Ashok K. Singh; Maurya, B.R. and Jagdish Prasad (2008) Influence of different nutrient sources on nodulation, growth and yield of chickpea. *Indian Journal of Fertilizers*.4 (2): 59-60&69.
10. Maurya, B.R.; Ram, H.; Prasad, S.S. and Singh, A. K. (2006) Effect of soil amendment on properties of post harvest salt affected soil. *New Agriculturist*. 21(1&2):1-6
11. Gupta, C.B.; Rai, R.; Singh, Ashok K. and Singh, P.N. (2008) Effect of rhizobium strain and nitrogen fertilizer on soil pH and nitrogenase activity in nodule of salt tolerance lentil (*Lens culanaris* L.). *Indian Journal of Agricultural Chemists*, XXXXI (1):37-43
12. Singh, Shailesh Kumar, Sanoria, C.L. and Singh, Ashok K. (2010) Effect of biofertilizers and organic manure on soil microbial population during mung bean growth in Varanasi Inceptisol, *Journal of Progressive Science*:1(1): 22-25
13. Ashok K.Singh, H.Ram and Jagdish Prasad (2011) Urea transformation and yield of rice as influenced by neem (*Azadirachta indica* L.Juss.) products in three soil types. *Indian Journal of Fertilizers*.7 (5):12-15.
14. Ashok K. Singh, B.R. Maurya, Hanuman Ram and Shailesh K. Singh(2011) Nitrate reductase activity of soil influenced by neem (*Azadirachta indca* L.Juss.) products, *Journal of Progressive Science*,02(1):66-69.
15. Singh, P.N.; Singh, Ashok K; Singh, S.K. and Singh, P.K. (2012) Physico chemical analysis in DPS command irrigated ecosystem of Ballia District. *Journal of Progressive Science*, 03(2):170-174.
16. Singh, Ashok K., Gyan Prakash Pal and Harishankar Tiwari (2014) Soil fertility status of tal land soil of Suraha tal Ballia district (U.P.), *Agropedology*, 27(1):99-101.
17. Rupa, T.R. and Singh, Ashok Kumar (2014). Integrated nutrient management in Cashew for Karnataka region, *Journal of Progressive Science*, 05(1):17-26.

18. Singh, Ashok Kumar, Tiwari, Harishankar, Pal, Gyan Prakash and Chaman Singh (2014) Influence of fly ash with organic sources on properties of alluvial soil, *Journal of Progressive Science*, 05(2):139-150.
19. Yadav, Manindra Kumar; Singh, Ashok Kumar and Shukla, Naveen Kumar (2015). Influence of legumes residues decomposition on change in physico-chemical properties of alluvial soil, *Journal of Progressive Science*, 06(2):143-152.
20. Kumar, Anil; Sahoo, B. and Singh, Ashok K. (2016). Rice productivity, female literacy and development in different agro-climatic zone of Uttar Pradesh *Journal of Progressive Science*, 06(1):26-33.
21. Paswan, Om Prakash and Ashok Kumar Singh (2016) Characterization of rice growing soils of Rewati block of Ballia district, U.P., *Journal of Progressive Science*, 07(1 & 2):61-74.
22. Singh, Ashok Kumar, Pal, Gyan Prakash and Tiwari, Harishankar (2017). Soil Fertility status of Suraha Tal land soils of Ballia district, Uttar Pradesh, *Agropedology*, 27(01):99-101.
23. Yadav, Durgvijay and Ashok Kumar Singh (2017) Effect of organic acids and fly ash on release pattern of phosphorus, potassium and enrichment of Ca and Mg in alluvial and black soils. *Journal of Progressive Science*, 08(1 & 2):9-19.
24. Mishra, Pooja, Singh, Ashok Kumar, Singh, Anil Kumar, Naveen Kumar Shukla and Ashish Ranjan (2017) Release pattern of phosphorus and sulphur in soils influenced by vermicompost and chemical fertilizers, *Journal of Progressive Science*, 08(1 & 2):52-57.
25. Gyanendra Bahadur Singh, Ashok Kumar Singh, Anil Kumar Singh and Naveen Shukla (2018). Potassium fraction and their availability in potato growing soils of Ballia District, U.P, *Journal of Progressive Science*, 09(1 & 2):66-74.
26. Singh, Ashok Kumar, Naveen Kumar Shukla, Anil Kumar Singh, Manindra Kumar Yadav, Ashish Ranjan, Mandhata Singh and Munendra Pal (2019). Ballia Jile Ke Suraha Tal Ki Mrida Urvarata Ka Adhyayan, *ICAR- Krishika Shodh Patrika* (Hindi), 6(2):18-26
27. Rajmohan Singh, Ashok Kumar Singh and Anil Kumar Singh (2019). Vertical distribution of soil fertility parameters of pulses growing black soils of Sohaon block in Ballia district (U.P.), *Agropedology*.
28. Ashok Kumar Singh, Sonal Srivastava, Anil Kumar Singh, Munendra Pal and Sandeep Kumar Gupta (2019). Potassium fixation capacity of soil in surface and sub-surface alkaline soils of Ballia district, *Journal of Progressive Science*, 10(1 & 2):61-68.
29. Maurya, Deepika; Ashok Kumar Singh and Anil Kumar Singh (2021). Soil carbon mineralization in different land use system soils of Ballia district, Uttar Pradesh, *Indian Journal of Agriculture and Allied Sciences*,
30. Singh, Ashok Kumar; Singh, Anil Kumar, Arman and Munendra Pal (2021). Characterization of soils of two village of Maniyar block of Ballia District (UP). *Agropedology*, 31(2): 187-191
31. Ashok Kumar Singh, Anil Kumar Singh, Firoz Husain and Munendra Pal (2022). Effect of organic and bio-agents of plant nutrition on soil properties, yield and quality of Tomato (*Lycopersicon esculentum* M.), *Indian Journal of Agriculture and Allied Sciences*, 8(1): 21-27
32. Prinsu Singh, Anil Kumar Singh, Ashok Kumar Singh and Sandip Kumar Gupta (2023). Sheer distribution of physico-chemical characteristics of Dubahar block soils of district Ballia, Uttar Pradesh, India, *Plant Archives*, 23(1): 269-273

33. Singh, Ashok K.; H. Ram, B.R. Maurya and Singh, P.N. (2010) Effect of neem (*Azadirachta indica* Juss.) products on nitrification in rice growing soil. *Oryza*, 47(2) 151-153
34. [Dendi Damodar Reddy](#), [Desouza Blaise](#), [Bhagwan Kumrawat](#) and [Ashok Kumar Singh](#) (2017). Evaluation of Integrated Nutrient Management Interventions for Cotton (*Gossypium hirsutum*) on a Vertisol in Central India, *Communication in Soil Science and Plant Analysis*, 48(4):469-475
35. Ranjan, A., Singh, R.P. and Singh, A.K. (2018). Physico-chemical properties and fertility status of soils of Dubahar Block of District Ballia (U.P.), *International Journal of Agriculture Sciences*,10(22):7522-7527
36. Durgvijay Yadav and Ashok Kumar Singh (2018). Effect of organic acids and fly ash on release pattern of SO_4^{2-} - S and change in pH and EC of alluvial and black soils, *International Journal of Current Research*,10(12):76732-76735
37. Sandip Kumar Gupta, Ashok Kumar Singh, Anil Kumar Singh, Ashish Ranjan and Naveen Kumar Shukla (2019). Physico-chemical characterization of soils of Bairia block of district Ballia, Uttar Pradesh, *Journal of Pharmacognosy and Phytochemistry*, 8(2): 1445-1448
38. Dey, S., Singh, Ashok Kumar, Singh, Anil Kumar, Ranjan, A. and Shukla, N.K (2019) Delineation of physico-chemical status of katahal nullah (Ballia) water and nearby soil, *International Journal of Agriculture Sciences*, 11(12):8668-8672
39. Anurag Kumar Singh, Ashok K. Singh and Anil Kumar Singh (2019). Study of available potassium by different extracting reagents and fertility status of soils of Bairia sub-division of Ballia, U.P. *Asian Journal of Science and Technology*, 10 (04):9584-9586
40. Singh M., Singh A.K. and Pandey A.K. (2019). Population dynamics of earthworm influenced by use of different nutrient sources in soil of Ballia, Uttar Pradesh, *International Journal of Agriculture Sciences*, 11 (20): 9149-9153.
41. Sandip Kumar Gupta, Ashok Kumar Singh and Anil Kumar Singh (2019). Micronutrient Status and Physical properties of soils of Bairia block of district Ballia, Uttar Pradesh, *Asian Journal of Science and Technology*, 10(12): 10529-10531.
42. Singh, Divakar, Singh, Ashok Kumar, Singh, Anil Kumar, Gupta, Sandip Kumar (2020) Characterization of rice growing soil of Nagara block o Ballia district (UP),India, *International Journal of Current Microbiology and Applied Science*, 9(4):575-581.
43. Verma, Ranjay Kumar and Ashok Kumar Singh (2020).Characterization of soil under cereals based land use system in Sikandarpur sub division of Ballia District (U.P.), *Asian Journal of Science and Technology*, 11(08): 11104-11110.
44. Singh, Shivam; Singh, Ashok Kumar; Anil Kumar Singh¹ and Munendra Pal (2022). Assessment of vertical distribution of physical and chemical properties of soils of Chilkahar block of Ballia district, Uttar Pradesh, *International Journal of Agriculture Sciences*, 14(3): 2022, 1178-11181

Paper Presented and abstract in conference

45. Singh, Ashok K. and Ram H (2002) Influence of neem products on available N release in submerged red, black and alluvial soils, National Seminar on Development of soil science and Annual Convention of Indian Society of Soil Science-2002, pp-102

46. Singh, Ashok K.; Ram, H; Jha, S. and Maurya, B.R. (2003) Effect of neem products on N availability, growth and yield attributes of wheat in different soils. 6th Agriculture Science Congress of NAAS Conference-2003, pp-67
47. Jha, S.; Maurya, B.R. and Singh, Ashok K. (2003) Utility of digested sludge and biofertilizer (Azospillium) as N supplement for rice (*Oriza sativa* L.) in Inceptisols. Proce. Of 6th Agriculture Science Congress of NAAS, pp-35
48. Singh, Ashok K. and Ram, H.(2003) Efficacy of neem (*Azadirachta indica* J) products on N availability and biomass production of paddy in Inceptisols, Alfisols and Vertisols. National Seminar on Development of soil science and Annual Convention of Indian Society of Soil Science-2003, 103
49. Rupa,T.R.; Reddy, D.D.; Srivastava, S and Singh, A.K.(2003) Evaluation of efficient soil test methods for available Zn and their critical values in cotton growing soils and plants. National Seminar on Development of Soil Science and Annual Convention of Indian Society of Soil Science-2003, 59
50. Reddy, D. Damodar and Singh, Ashok K. (2004) Balanced and Integrated Nutrient Management Effect on Yield, Nutrient Uptake and Fibre Quality of Cotton” National Seminar on Development of Soil Science and Annual Convention of Indian Society of Soil Science-2004.
51. Shahi, V.B; Singh, R.P.; Singh, P.N. and Singh, Ashok K. (2005) Influence of lemon grass (*Cymbopogon flexuosus* L) cultivation on properties of soil. In National Seminar on Integrated Crop and Environment Management, at S.M.M.T.P.G. College, Ballia (Abstract)-pp-53
52. Singh, P.N.; Singh, Ashok K; Singh, P.K.; Krishnanad and Shahi, V.B. (2005) Soil properties and crop yield under the waterlogged and irrigation regimes in canal network area of Ballia district-UP. In Nat. Sem. on Integrated Crop and Environment Management, at S.M.M.T.P.G. College, Ballia (Abstract)-pp-54
53. Singh, Ashok K.; Hanuman Ram and Singh, P.N. (2005) Effect of neem (*Azadirachta indica* Juss.) products on urea transformation in Rabi season of red, black and alluvial soils. Nat. Sem. on Integrated Crop and Environment Management, at S.M.M.T.P.G. College, Ballia (Abstract)-pp-52
54. Singh, P.N.; J. Shankar and Ashok K. Singh (2006). Nutritional studies of floating rice-*Jaisuria*. In International Conference of Post harvest Technology and Value addition in cereals, pulses and oil seeds, held at CSA University of Agriculture & Technology, Kanpur from 27-30 Nov. 2006. pp33
55. Peeyush Kant Singh, P.N. Singh, Ashok K. Singh and Sachin Singh (2007). Diversity in soil fertility of waterlogged areas. National Symposium on Research Priorities and Strategies in Rice Production System for Second Green Revolution, at CRRI, Cuttack (Abstract)pp-102
56. Ashok K. Singh; H.Ram; B.R.Maurya and P.N. Singh (2007). Effect of neem products on nitrifying capacity in rice field. National Symposium on Research Priorities and Strategies in Rice Production System for Second Green Revolution, at CRRI, Cuttack (Abstract)pp-101
57. Ashok Kumar Singh (2011). Fertilizers use and environmental degradation: a global threat. National Seminar on Globalization and Indian Society: Challenges and Prospects,4-5, March, 2011, S.M.M. Town PG College, Ballia, India
58. Ashok Kumar Singh, Avanih Kumar Pandey and Mandhata Singh (2016). Characterization of college agriculture farm soil Nidharia, Ballia District of Uttar Pradesh. International Conference

- on Integrated land Use Planning for Smart Agriculture-an agenda for Sustainable Land management, 10-13, November, 2016, ICAR-NBSS&LUP, Nagpur (Abstract)-pp-81
59. Ashok Kumar Singh (2017). Agriculture Education: Job opportunity and challenges. International Seminar on Development in Human Context and Thinking of Deendayal Upadhyay, by J.N.C. University, Ballia, 9-10, December, 2017, Ballia, India
 60. Amarkant Pandey, Sandip Kumar Gupta, abhishek Kumar Singh, Raj Mohan Singh, Ashok Kumar Singh and Anil Kumar Singh (2018). Characterization of soils of peri-urban area of Ballia District. National Seminar on Water and soil Management Approaches for Climate Smart Agriculture, 23-24 March, 2018, BHU, Varanasi (Abstract)pp-82.
 61. Ashok Kumar Singh, Abhishek Kumar and Anil Kumar Singh (2019). Characterization and classification of salt affected soils of Rewati Block of Ballia District of Uttar Pradesh, India. National Seminar on Development of Soil Science and 84th Annual Convention of Indian Society of Soil Science, 15-18, November, 2019, BHU, Varanasi
 62. Singh, Ashok Kumar, Naveen Kumar Shukla, Anil Kumar Singh, Munendra Pal* Mandhata Singh, Gyan Prakash Pal and Jyoti Singh (2022). Soil of Suraha Tal Ballia is a harbinger of land and crop prosperity, National Seminar on Development of Soil Science and 84th Annual Convention of Indian Society of Soil Science, 15-18, November, 2019, BHU, Varanasi

As Popular Articles-

63. Hanuman Ram and Ashok K. Singh (1999). Pyrite, Khaira Roga Ka Nidan, *Krishi Vishtar Samiksha*, July-August, : 20-21
64. M. C. Manna; A.K.Singh; S.Jha;K.N.Singh and T.K.Ganguly(2001). Pyrite Aur Rockphosphate Se Compost. *Krishi Chayanika*, July-September (3) 13-43.
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67. Ashok Kumar Singh and D.Damodar Reddy (2005). Mitti Aur Phasal Ke Liye Phosphorus Ki Aavshyakata *Bhumi Nirman* .(1)January-3
68. Ashok Kumar Singh, Shankar Jha, T.R. Rupa and D.D.Reddy (2005). Gharelu Kuda Kachara ka Samadhan, *Krishi Vishtar Samiksha* , May -June: 6-9
69. Ashok Kumar Singh, Prem Shankar Singh and Paras Nath Singh (2006). Sabji Utpadan Me Krishi Rasayano Se Sajagata. *Bhumi Nirman* : (4) May-10
70. Ashok Kumar Singh, P. N. Singh, Prem Shankar Singh and B.R. Maurya (2006). Machhali Palan Ke Liye Mitti Parikshan Ke Awashyakat. *Bhumi Nirman* : (2) February-10
71. Rupa,T.R. and Ashok Kumar Singh (2008). Ganna Utpadan Mi Shukshma Tatao ka Prayog. *ICAR-Kheti* 61 (8): November,11-13
72. Rupa,T.R. and Ashok Kumar Singh (2008). Ganna Utpadan Hetu Samanwet Poshak Tatva Pradali (INM). *Unnat Krishi: 46* (3): January- March,4-5
73. Ashok Kumar Singh (2009). Achchhi Fasal Ke Liya Jaruri Hai Mrida Parikshan. *Kurukshetra* 55(3): January; 37-39.
74. Raghvendra and Ashok Kumar Singh (2012). Mycorrhiza Dwara Aushadiya Kheti Ki Sudridata. *Mrida Darpan* (ICAR) 6 (5&6):20-24.
75. Ashok Kumar Singh (2014). Uttam mitti parikshan ke liye mitti namuna ki aavshyaktaye. *Mrida Darpan* (ICAR)10 (10):37-42.

76. Ashok Kumar Singh (2014). Phosphorus ka santulit poshan tatha anya poshak tatvon se samabndh *Mrida Darpan* (ICAR)10 (10):48-54.
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Book Chapter

78. Ashok K. Singh (2011) Fertilizers use and environmental degradation: a global threat, In Proceeding of National Seminar on Globalization and Indian Society: Challenges and Prospects, 2011, Published by S.M.M. Town PG College, Ballia, India, pp 175-180.
79. Ashok Kumar Singh (2015) Neem products are panacea for soil health and plant nutrition, In Proceeding of National Seminar on Agriculture Development and National Agriculture alumni Meet-2015, Published by S.M.M. Town PG College, Ballia, India, pp 81-84.
80. Singh, Anil Kumar; Singh, Ashok Kumar Singh and Pal, Munendra (2019). Good agricultural practices for soil fertility and nutrient management, Proceeding of National Seminar of IAETD, 2019, Published by Society of Biological Science and Rural Development, Prayag Raj (UP) pp-73-74.
81. Singh, Ashok Kumar, Anil Kumar Singh, Munendra Pal, Sanjeet Kumar Singh, Jai Prakash Singh and Brijesh Singh (2021). Biogas System: A harbinger of rural prosperity for energy. In the Proceeding of National Seminar on Socio-Economic-Technological Sustainability and self-Reliant India, Published by Government College, Jakkhini, Varanasi, pp-312-323.
82. Naveen Kumar Shukla, Ashok Kumar Singh, Anil Kumar Singh, Munendra Pal Mandhata Singh and Gyan Prakash Pal (2022). Soil of Suraha Tal Ballia is a harbinger of land and crop prosperity, Proceeding of National Seminar on publish in the seminar proceeding

Books/Manual

83. Globalization and Indian Society: Challenges and Prospects (2011) 2011-ISBN987-93-5067-354-6 and -3 (Seminar Proceeding)
84. Agriculture Development (2015)- ISBN 978-18-932002-9-2 (Seminar Proceeding)
85. Principles of Food Science and Nutrition (2021) ISBN Published by Rama Publication, Meerut
86. Elements of Soil Science (2023) ISBN Published by Kushal Publication, Varanasi
87. Mrida Vigyan Ke Sidhant (2023) ISBN Published by Kushal Publication, Varanasi

4. Student Profile:

Though the students who seek admission in this institution come mostly from economically and socially backward segments of the society yet their performance are appreciable. Our students are doing well in different walks of life after completing their studies from this institution

- The first batch topper Sri Deepak Rai was awarded the University Gold medal
- All P.G. Students are placed in different state Govt. and Pvt. Ltd. Co. services

5. Changes in Courses: In 1989, the department has adopted new syllabi of four years degree course as recommended by Purvanchal University, Jaunpur. At PG level the syllabus has been revised in 2003. At

present, UG and PG courses are running as per UGC norms and Jananayak Chandrashekhar university guidelines.

6. Success rate and drop-out rate:

The department has showed a good trend in success rate of students. The success rate of UG students is more than 85 %. In case of PG students, it is more than 97%. The drop out rate is almost negligible.

7. Learning Resources of the department:

The department is equipped with following resources for our students-

A. Library: For UG students, there is a central library. But for PG and research students, there is a departmental library with sufficient (about 300) text books, reference books, journals, encyclopedia and popular agricultural magazine etc.

B. Laboratory: There is a well-equipped laboratory with all facilities for soil, biochemical, dairy and environmental analyses work *viz.* B.Sc. (Ag.), M.Sc.(Ag.), Research & Instrument, Soil Microbiology laboratory etc.

C. Other Resources: Department has a good collection of charts, posters and display boards, models, soils, rocks and minerals

8. Modern teaching methods: Apart from normal blackboard teaching we sometimes use slide projector, Overhead projector and LCD projector also. Seminar and group discussions among students are also encouraged.

9. Academic and personal Counselling: The department takes keen interest in assigning dissertation work to the PG students. We keep them updated in various spheres. We try to give maximum information to our Ph.D. students for their placement after they complete their study.

10. Faculty development programmes: The faculty members have completed the required number of orientation, refresher courses, winter school, summer school and short training courses for the upgrade of knowledge and techniques of research and teaching.

11. Participation in academic activities:

Teaching- The faculty members are regularly involved in teaching (theory and practical classes) of both UG and PG classes. Each faculty member takes about 24 periods per week

Research- Our faculty members are actively involved in research also. Their research profiles are mentioned above.

Other Academic Activities-

- ❖ All other members are actively involved in different college activities like admission, examination, University flying squad, proctorship, Agriculture council, Agricultural Extension activities for technology transfer to farmers etc.

- ❖ Other member Dr. Ashok K. Singh is actively participating as a subject matter specialist/ Agricultural Scientist for different farmers' meet/chaupal/gosthi/Farmers Training in the Department for extension of technology transfer etc.
- ❖ The Head, Dr. Ashok K. Singh is actively participating as a subject matter specialist in Science Club for sensitization of scientific thought

12. Collaboration with other departments and institutions: District Science Club, Ballia , Ma Sursari Seva Samiti, Ballia

13. Priority Areas of Research- Agriculture Chemistry and Soil Science/Environmental Science/Biochemical transformation in vegetables, fruits and food grains

14. Extension activities for technology transfer- faculty member **Dr Ashok Kumar Singh** is engaged in participating as Subject matter specialist for different farmers gosthi organized by State Department of Agriculture, NABARD, Banks, Cooperative and Others.

14. Dr. Ashok Kumar Singh organized **two district farmers meet** for sensitization of farmers clubs sponsored by NABARD, Ballia and **one Farmer's training** programme on "Use of chemical fertilizer and agrochemicals" from 13.11.2010 to 15.11.2010. 3 days farmers training programme on **Pashu Palko Hetu Prashikshan** form **28th July to 30th July 2011**

15. Students' Educational Tour- The Agriculture Council has every year arranged a tour/visit for UG and PG Students to learn the farmers experience and feed back of agri-technology.

16. Placement record- Our students have been occupying good positions in different walks of life after completing their study.

PG students has placed for soil testing laboratory, Plantation companies, Pesticides and agrochemicals firms, Research Fellow in different research schemes, Teachers and academic services.

17. Plan of action of the department for the next five year: We plan to improve our Post Graduate teaching by further augmenting the facilities in our departmental library and laboratory.