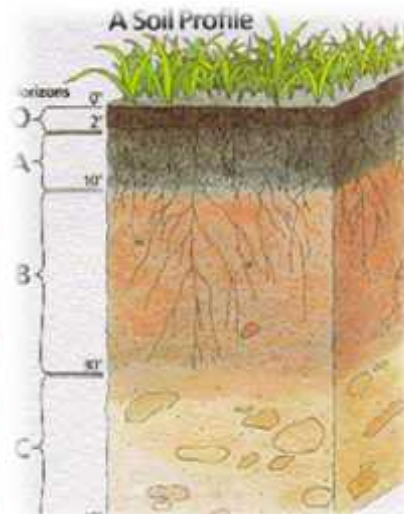


PG Department of Agricultural Chemistry and Soil Science


DEPARTMENTAL PROFILE FOR ACCREDITATION BY NAAC



**S. M. M. TOWN PG COLLEGE, BALLIA
MAHATMA GANDHI KASHI VIDYAPEETH
VARANASI**

P.G. Department of Agricultural Chemistry & Soil Science

1. Faculty Profile- Our faculty

Name and Designation	Specialization
 <p>Dr. Ashok Kumar Singh, Assistant Professor and Head M.Sc. (Ag.), NET, Ph. D. 9450778951 aksinghk@rediffmail.com</p>	<p>NET (Soil Science-Soil Physics, Soil and Water Conservation; Soil Science-Soil Chemistry, Fertility, Microbiology Research Papers-19, Abstracts-14, Popular Article-13, Total- 46; Book -01, M.Sc.(Ag.) Thesis Guided-04 National Seminar-20, International Seminar-03</p>
Vacant Post for Assistant Professor -02 Post	
<p>Dr. Keshav Shankar Singh Assistant Professor (Self Finance) M.Sc. (Ag.), Ph. D.</p>	Soil Science
Vacant Post for Assistant Professor -01 (Under Self Finance)	
<p><u>Non Teaching Staff</u> Laboratory Assistant</p> <p>1-Sri Chhote Lal Ram- Laboratory Assistant</p> <p>Laboratory Attendant/Parichar</p> <p>1-Sri Anil Kumar - Laboratory Attendant /Parichar 2-Vacant Laboratory Attendant/ Parichar</p>	

History of Department

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. Dr. K.C. Srivastava was the man who first joined the department in 1959- 61 as regular lecturer and later on and left the college in 1961 and joined Kulbhaskar Ashram PG College, Allahabad where he has retired as the principal of the college. For very short period Mr. Atharjabl was the member of the department who later on fled to Australia in 1962. Sri G.S. Rao second the in-charge of the department from 1962-63 until **Sri Arjun Singh** joined the department as lecturer on 7th August, 1964. Sri Singh served the college as head of the department till 20th September, 2000 and principal of the college from 21st September 2000 to 30th June 2001. Sri Kripa Shankar Srivastava joined the department as second man in 1965 and moved to State Bank of India as Probationary Officer on 13.01.1997. **Dr. Paras Nath Singh** joined the Department of Agricultural Chemistry on 8th November, 1971 (Lecturer in Agricultural Biochemistry) and retired on 30 June 2011. Mean time Dr. C.P. Singh and Ram Vilash Pandey also served the department for a short period. **Dr. Krishna Nand** joined the department as lecturer on 13th

December 1979 and retired on 30th June 2003. **Dr. Ashok Kumar Singh** joined the department on 26th July 2005 as lecturer now Assistant Professor of Agricultural Chemistry and Soil Science and is serving the College with grit and determination. The P.G. department assisted by another faculty members along with tow ad-hoc teaching staff i.e. Dr. Jagdish Mishra and Dr. Shashi Kant Tripathi (They later on left the department due to their elsewhere appointment). Dr.Keshav Shankar Singh joined the department as Assistant Professor of Agricultural Chemistry and Soil Science (under Self Finance) on 2nd February 2014 and is serving.

The Department along with College was re-affiliated by Purvanchal University, Jaunpur in 1988 and started B.Sc. (Ag.) four years course along with with many changes in course curriculum. At present Time College and department is again re-affiliated to running under the University of Mahatma Gandhi Kashi Vidyapeeth, Varanasi since, July 2009. The department was upgraded as the Post Graduate department of Agriculture since 2003.

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 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).

Ongoing Research projects

- One research project under Dr. A. K. Singh funded by NABARD with NGO Participation (Closed)

Extension Activity for Technology Transfer-

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

Organized

1. **Organise** farmers sensitization and **district farmers meet** on 28th November, 2009 at Agriculture faculty, S M M Town PG College, Ballia funded by NABARD
2. **Organise** farmers sensitization and **district farmers meet** on 30th January, 2010 at Sant Gramyanchal College, Ballia funded by NABARD
3. **District farmers meet** on 23rd November 2011 with participation of District Science Club Ballia

Farmers' Training

4. Organise Farmer training on "Use of chemicals fertilizers and agrochemical" from 13.11.2010 to 15.11.2010 sponsored by UP Science and Technology Lucknow collaboration with Science Club, Ballia
5. Organise Farmer training on "Pashupalko hetu Training" from 28.07.2011 to 30.07.2011 sponsored by UP Science and Technology Lucknow collaboration with Science Club, 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 (annual examination system)

1. Soil Science, Fertilizers and Manures-(paper-IVth) in 1st year
2. Agricultural Biochemistry- (paper-Ist) in 2nd year

- | | |
|---|-------------------------|
| 3. Chemistry of Milk and Animal Nutrition-(paper-IV th) | in 3 rd year |
| 4. Environmental Studies- (paper-I st) | in 4 th year |

P.G. Corse- M.Sc. (Ag.) Agricultural Chemistry and Soil Science (SEMESTER SYSTEM)

COURSE STRUCTURE – FIRST SEMESTER **M.M.: 400**

PAPER – 101 SOIL PHYSICS	75 MARKS
PAPER – 102 SOIL FERTILITY AND FERTILIZER USE	75 MARKS
PAPER – 103 SOIL CHEMISTRY	75 MARKS
PAPER – 104 SOIL MINERALOGY, GENESIS, SURVEY AND CLASSIFICATION	75 MARKS
PRACTICAL FOR ALL	100 MARKS

COURSE STRUCTURE –SECOND SEMESTER **M.M.: 400**

PAPER – 201 SOIL EROSION AND CONSERVATION	75 MARKS
PAPER – 202 SOIL BIOLOGY AND BIOCHEMISTRY	75 MARKS
PAPER – 203 STATISTICS OF SOIL SCIENCE RESEARCH	75 MARKS
PAPER – 204 RADIOISOTOPES IN SOIL AND PLANT STUDIES	75 MARKS
PRACTICAL FOR ALL	100 MARKS

COURSE STRUCTURE – THIRD SEMESTER **M.M.: 400**

PAPER – 301 MANAGEMENT OF PROBLEMATIC SOILS AND WATER	75 MARKS
PAPER – 302 REMOTE SENSING AND GIS TECHNIQUES FOR SOIL AND CROP STUDIES	75 MARKS
PAPER – 303 ANALYTICAL TECHNIQUES AND INSTRUMENTAL METHODS IN SOIL AND PLANT ANALYSIS	75 MARKS
PAPER – 304 FERTILIZER AND BIOFERTILIZER TECHNOLOGY	75 MARKS
PRACTICAL FOR ALL	100 MARKS

COURSE STRUCTURE – FOURTH SEMESTER **M.M.: 400**

PAPER – 401 ENVIRONMENT AND SOIL, WATER, AIR POLLUTION	75 MARKS
PAPER – 402 SEMINAR	75 MARKS
PAPER – 403 THESES WORK FOR RESEARCH	150 MARKS
VIVA-VOCE OF THESIS WORK FOR RESEARCH	100 MARKS

OR

SPECIAL PAPER (A+B)

PAPER – 403 A- SPECIAL PAPER - GEOMORPHOLOGY AND SYSTEM APPROACHES IN SOIL AND CROP STUDIES	75 MARKS
PAPER – 403 B- SPECIAL PAPER – GEOCHEMISTRY, LAND DEGRADATION AND RESTORATION	75 MARKS
PRACTICAL FOR SPECIAL PAPERS	100 MARKS

*Two Ad-hock Lecturers are working for additional PG courses

Dr. Ashok Kumar Singh

1. Received Commendation Certificate for **Best Doctoral Research Presentation Award-2002 by Indian Society of Soil Science, New Delhi**
2. Received honors for **Bhumi Nirman Best Articles in Agriculture 2003 by Bhumi Nirman, Agriculture Newspaper, Bhopal**
3. Received honors for **Bhumi Nirman Best Editor 2004 by Bhumi Nirman Agriculture Newspaper, Bhopal**

4. Received honors for **best cooperation in academic work of College convocation, 2006** by **Town Educational Society, Ballia (UP)**
5. Received honors for **Bhumi Nirman Best Editor 2009** by **Bhumi Nirman Agriculture Newspaper, Bhopal**
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 by **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

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**

Training/Course-

1. Two days **Training Workshop on Teaching Excellent and Learning**, September **19th -20th, 2014**, USAID-AIP Sponsored, I.Ag.Sc. B.H.U. Varanasi (UP).
2. **Orientation** Training programme for Programme Officer of N.S.S. from **6th December to 12th December, 2013** at EMPANLD Training Institute, DDU Gorakhpur University, Gorakhpur (UP).
3. Two days **Training workshop** of N.S.S. Programme Officer December **2nd - 3rd, 2013** at M.G.Kashi Vidyapith, Varanasi (UP).
4. Two days **Training workshop** of N.S.S. Programme Officer December **22nd - 23rd, 2012** at M.G.Kashi Vidyapith, Varanasi (UP).
5. **Winter School**-Remote sensing and GIS application in natural resource management at NBSS & LUP centre Kolkata, **November 21st to December 11th, 2012.**
6. **Winter school**- Farmers' resource based site specific integrated nutrient management and on-line fertilizer recommendation using GIS and GPS tools at IISS, Bhopal, **January 3-23, 2009**
7. **Orientation Course**-49th Orientation course at ASC-BHU, Varanasi, **June 18 to July 15, 2008**

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

2. 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

3. 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.

4. 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.

5. 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

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

7. 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.

8. 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.

9. 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

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

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

12. 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.

1. **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** from **28th July to 30th July 2011**

13. 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.

14. 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.

15. 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.

PHOTO GALLERY OF DEPARTMENT





आफ सोजन में भी ले सकते हैं फलों- सब्जियों का स्वाद

... कृषि विभाग के अधिकारी

किसानों को लो जरूरत के अनुसार करें होगा प्रकृति की उर्वरक का प्रयोग

... कृषि विभाग के अधिकारी

जावक खाद्य स भूमि की रक्षा सम्भव : डा. अशोक

... कृषि विभाग के अधिकारी

विज्ञानिकों की उपस्थिति

... कृषि विभाग के अधिकारी

कृषि विभाग के अधिकारी

... कृषि विभाग के अधिकारी

हिन्दुस्तान, 19 दिसम्बर 2014

एमएससी टाप दीपक ने पाया 'गोल्ड'

... कृषि विभाग के अधिकारी

कृषि रसायन व मृदा विज्ञान में 78 प्रतिशत अंक पाया

... कृषि विभाग के अधिकारी

कृषि विभाग के अधिकारी

... कृषि विभाग के अधिकारी

बलिया

जापान जैसी कार्यसंस्कृति हो : सहाय

... कृषि विभाग के अधिकारी

कृषि विभाग के अधिकारी

... कृषि विभाग के अधिकारी

कृषि विभाग के अधिकारी

... कृषि विभाग के अधिकारी





**‘कृषि संकाय संकुल’
शिलाय्यास के शुभ अवसर पर**



प्राचार्य डॉ. देवप्रसाद सिंह,
अध्यक्ष डॉ. वि.एन. सिंह और
(अ. प्रा.) - बाँयें से







**AGRICULTURE COUNCIL, FACULTY OF AGRICULTURE
S.M.M. TOWN PG COLLEGE, BALLIA**

Student's tour and visit for field in 2009-2010, B.Sc.(Ag.) –VI rth



