

DEPARTMENT OF SOIL SCIENCE & AGRICULTURAL CHEMISTRY



**Acharya Narendra Deva University
of Agriculture & Technology**
Kumarganj, Ayodhya-224229 (U.P.)

ABOUT THE DEPARTMENT

- Department of Soil Science & Agricultural Chemistry is one of the oldest Departments in College of Agriculture and it came into existence in the year 1978.
- M.Sc. (Ag.) programme in Soil Science & Agricultural Chemistry discipline was started during the year 1982 while Ph.D. programme in Soil Science & Agricultural Chemistry discipline was started during 1985 under the headship of Dr. Room Singh.
- Since the inception of PG & Ph.D. teaching programmes, over 246 students have been awarded M.Sc. degree and more than 58 students have been awarded Ph.D. degree.
- The Department offer courses in Soil Science & Agricultural Chemistry for undergraduate, PG and Ph.D. students in Colleges of Agriculture, Horticulture & Forestry, Fisheries, Agricultural Engineering and Community Science.
- Major achievements of the department have been in the placement of its alumni as Scientists and faculty members in reputed Teaching and Research Institutions of the country and other higher scientific and administrative posts.
- The technologies adopted and developed by the Department have been transferred to the farmers from time to time by the University.
- The Department is well-equipped with laboratories for both U.G. and P.G. students.

Vision:

- To provide quality education to the students and acquainting them with cutting edge scientific skills and expertise in Soil Science for actively contributing towards sustainable and productive use of natural resources for the welfare of humankind.

Mission:

- To educate students about the current concepts in Soil Science and enhance their competence in applying the knowledge to provide solutions for Soil health improvement.
- To conduct relevant basic and applied research in soils and contribute towards development of advance resource efficient and environmentally sound soil management technologies.
- To develop and disseminate knowledge of Soil Science and the interrelationships with plant nutrition, plant growth and environmental quality.

Objectives:

- To provide high quality education to the students with an understanding of and ability to applied fundamental principles of Soil Science and natural resources management.
- Development of efficient Biofertilizer and Biopesticides including low-cost novel bio-input formulations.
- To encourage natural/organic farming under climate resilient agriculture for sustaining agri-productivity.
- To provide training to the youth for developing skills on various aspects of natural resources management for sustaining soil health and crop productivity.

FACULTY PROFILE

Sl.No	Name of Faculty	Designation	Specialization	Email Id	Contact No.
1.	Dr. Ved Prakash	Professor	Chemistry and reclamation of Problematic soils	vedprakash.ndu1961@gmail.com	9450763842
2.	Dr. R. R. Singh	Professor	Soil Fertility	rratansingh@yahoo.co.in	9450938866
3.	Dr. Suresh Kumar	Professor	Soil Fertility	skumarnduat@gmail.com	9415464511
4.	Dr. Neeraj Kumar	Professor and In-charge	Soil Fertility and Nutrient Management	drneerajkumar@nduat.org	9415515216
5.	Dr. Mahendra Singh	Associate Professor	Soil Biology, Biofertilizer technology, Soil Fertility,	mahendrasingh@nduat.org	9973627411

6.	Dr. Sushil Kumar Yadav	Associate Professor	Soil Fertility; Soil Chemistry	yadavskbhu@gmail.com	9472230694
7.	Dr. Robin Kumar	Assistant Professor	Conservation Agriculture, Soil Fertility	robin0012@nduat.org	9634531111
8.	Dr. Alok Kumar Pandey	Assistant Professor	Microbial Transformation of Lignocellulosics; Microbial Bioremediation;	alokkpandeysoil@nduat.org	9515389660
9.	Dr. Anand Singh	Assistant Professor	Conservation Agriculture, Soil Fertility	singhanand@nduat.org	9415448915

NON-TEACHING STAFF

Sl.No.	Name of Faculty	Designation	Contact No.
1.	Ram Saran	Technical Assistant	9161662158
2.	Rajendra Prasad Singh	Junior Assistant	9670071247
3.	Raj Karan Maurya	Attendant	9415464511

DEGREE PROGRAMMES

(A) Degree Programmes offered in the Department

- M.Sc. (Ag.) Soil Science
- Ph.D. Soil Science

(B) Students Enrolled in the Department during last 5 years

- M.Sc. (Ag.) Soil Science

Academic Year	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
No. of Students	10	10	12	13	12	14	20

Post-Graduate and Ph.D. Courses

Courses for M.Sc. (Ag.) Soil Science

Semester	Course No.	Course Title	Credit Hours
First Year			
I	Soil 504	Soil Mineralogy, Genesis and Classification	3(2+1)
I	Soil 506	Soil Biology and Biochemistry	3(2+1)
I	Soil 510	Analytical Techniques and Instrumentation Methods in Soil and Plant analysis	2(0+2)
II	Soil 501	Soil Physics	3(2+1)
II	Soil 502	Soil Fertility and Fertilizer Use	3(2+1)
II	Soil 503	Soil Chemistry	3(2+1)
Second Year			
III	Soil 511	Management of problematic soils and water	3(2+1)
IV	Soil 591	Master's Seminar	(1+0)
I, II, III, IV	Soil 599	Master's Research	30 (0+30)
Total			51

Courses for Ph.D. (Soil Science)

Semester	Course No.	Course Title	Credit Hours
First Year			
I	Soil 604	Soil genesis and micro-morphology	2(2+0)
II	Soil 601	Recent trends in soil physics	2(2+0)
	Soil 602	Modern concept in soil fertility	2(2+0)
Second Year			
III	Soil 605	Biochemistry of Soil Organic Matter	2(2+0)
IV	Soil 609	Recent trends in soil microbial biodiversity	3(2+1)
Third Year			
V	Soil 691	Doctoral seminar	1(0+1)
V	Soil 603	Physical chemistry of soil	2(2+0)
VI	Soil 692	Doctoral seminar	1(0+1)
I to VI	Soil 699	Doctoral Research	75(0+75)
Total			90

Achievements of the Department (Last 5 Years):

Number of research papers	:	48
Number of Books	:	06
Number of Book Chapters	:	10
Number of Popular Articles	:	05
Number of Technologies Developed	:	01
Number of Awards/ Honors	:	08
Faculties honored as Fellow of Scientific Societies	:	01
Radio Talk/ T.V. Talk	:	10
Faculties honored as Fellow of Scientific Societies	:	01
Membership of Professional Societies	:	08
Externally Funded Ad-hoc Research Projects	:	02
STUDENTS QUALIFIED ASRB/UGC NET	:	11

FACILITIES AND INFRASTRUCTURE

Lecture Room	02
Instrumentation Room	01
Under Graduate Laboratory	02
Post Graduate Laboratory	01
Departmental Book Library	01
Seminar Hall	01
Biofertilizer and Biopesticides Laboratory	01

STUDENTS' PLACEMENTS

Sl. No.	Name of student	Id. No.	Class	Placement	Employer Name
1.	Ram Bharose		Ph.D.	SMS, ANDUAT, Ayodhya	Vice Chancellor, ANDUAT, Ayodhya
2.	Nandan Singh	A-10607/18	Ph.D.	SMS, ANDUAT, Ayodhya	Vice Chancellor, ANDUAT, Ayodhya
3.	Devesh Pathak	A-11145/19	M.Sc.	SMS, ANDUAT, Ayodhya	Vice Chancellor, ANDUAT, Ayodhya
4.	Ashok Kumar	A-7580/15	M.Sc.	Assistant Professor	Higher Education Commission, UP Govt.
5.	Rana Pratap Singh	A-8915/15	M.Sc.	Assistant Professor	Higher Education Commission, U.P. Govt.
6.	Sudheer Pal	A-9547/16	M.Sc.	Assistant Professor	Higher Education Commission, U.P. Govt.
7.	Dinesh Kumar	A-6895/12/16	Ph.D.	Assistant Professor	Higher Education Commission, U.P. Govt.
8.	Bhavya Raj Pandey	A-8909/15/17	Ph.D.	Sr. Technical Assistant (STA), Agriculture Deptt.	U.P. Govt.
9.	Arjun Patel	A-7579/13	M.Sc.	STA, Agriculture Deptt.	U.P. Govt.
10.	Ashutosh Kumar	A-7724/14/18	M.Sc.	STA, Agric ulture Deptt .	U.P. Govt.
11.	Abhishek Kumar	A-7702/14/18	M.Sc.	STA, Agric ulture Deptt .	U.P. Govt.
12.	Dr. Prabhat Ranjan Pandey	A-7771/14/18	M.Sc.	STA, Agric ulture Deptt .	U.P. Govt.
13.	Ajay Kumar	A-10540/18	M.Sc.	STA, Agric ulture Deptt .	U.P. Govt.
14.	Saurabh Tiwari	A-10545/18	M.Sc.	STA, Agric	U.P. Govt.



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