DEPARTMENT OF AGRICULTURAL STATISTICS

ACHARYA NARENDRA DEVA UNIVERSITY OF AGRICULTURE & TECHNOLOGY

KUMARGANJ, AYODHYA - 224 229, UTTAR PRADESH

OVERVIEW OF THE DEPARTMENT

Department of Agricultural Statistics was established under College of Agriculture in the year 1995. The M.Sc. (Ag.) degree programme in Agricultural Statistics commenced from the year 1996. The Ph.D. degree programme in Agricultural Statistics started from the year 1999. The department offers courses of statistics for under-graduate, post-graduate and Ph.D. students of College of Agriculture, College of Community Science, College of Fisheries, and College of Horticulture & Forestry. The department also offers courses of statistics to under-graduate and post-graduate students of College of Agriculture, Kotwa, Azamgarh. The department is well-equipped with computer laboratories having Wi-Fi facility. The department also has two Agricultural Research Information System (ARIS) labs for providing up-to-date knowledge of Information and Communication Technology (ICT) to the students. The first ARIS lab was established in the year 1996, and the second ARIS lab was established in the year 2003.

Vision:

The vision of the department is to become a premier and recognized center of excellence in teaching and research.

Mission:

The mission of the department is to provide quality education and research to the students for transforming their lives, and making them future professionals and academicians.

Objectives:

➢ To acquaint the students with basic, advanced and latest statistical methodologies and techniques.

➢ To equip the students with various statistical softwares for data analysis.

➢ To enhance the computational skills of students by developing in them the mathematical problem-solving approach in topics related to mathematics and statistics.

➢ To provide global recognition to the post-graduate and Ph.D. students through innovative research in theoretical and applied statistics.

EMPLOYEES PROFILE

Head of the Department

Prof. Pratibha Singh **Specialization:** Nutritional Biochemistry	

Faculty Position

Name	**Dr. Manish Kumar**	
Designation	Assistant Professor & Incharge	
Qualification	Ph.D., NET	
Research Specialization	Sampling Theory, Applied Statistics	
Contact No.	8176890187	
E-mail address	manishstats88@gmail.com, manishkstat@nduat.org	

Name	**Dr. Vishal Mehta**	
Designation	Assistant Professor	
Qualification	M.Phil., Ph.D., PostDoc	
Research Specialization	Statistical Inference, Sampling Theory, Applied Statistics	
Contact No.	8770269144	
E-mail address	drvishalanduat@gmail.com, mehta.vishal@nduat.org	

Name	**Dr. Piyush Kumar Singh**	
Designation	Assistant Professor	
Qualification	Ph.D., NET	
Research Specialization	Time Series Analysis, Forecasting	
Contact No.	9721798796	
E-mail address	piyush29jul@gmail.com, piyushstat@nduat.org	

Staff Position

Name	Sri Krishna Kant Singh Yadav	
Designation	Lab Assistant	
Contact No.	9451588112	

Name	Shashi Prabha	
Designation	Junior Assistant	
Contact No.	9452967865	

Name	Sri Jagram	
Designation	Attendant	
Contact No.	9455594016	

Name	Mr. Tarun Singh	
Designation	Computer Operator	
Contact No.	8853006238	

Name	Mr. Vinod Kumar	
Designation	Computer Operator	
Contact No.	9140792225	

DEGREE PROGRAMMES

(A) Degree Programmes offered in the Department

- ❖ **M.Sc. (Ag.) Agricultural Statistics**
- ❖ **Ph.D. (Agricultural Statistics)**

(B) Students Enrolled in the Department during last 7 years

❖ M.Sc. (Ag.) Agricultural Statistics

Academic Year	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
No. of Students Enrolled	04	01	NIL	03	06	06	09

❖ Ph.D. (Agricultural Statistics)

Academic Year	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
No. of Students Enrolled	02	02	01	02	NIL	02	02

Post-Graduate and Ph.D. Courses

❖ **Courses for M.Sc. (Ag.) Agricultural Statistics**
❖ **Courses for Ph.D. (Agricultural Statistics)**

(A) Courses for M.Sc. (Ag.) Agricultural Statistics

Courses for M.Sc. (Ag.) (Agricultural Statistics) Degree Programme

(From Academic Session: 2022-23 onwards, as per new BSMA guidelines of ICAR)

Courses	Course No.	Course Title	Credit
SEMESTER-I			
Major Courses	STAT 552	Probability Theory	2 (2+0)
	STAT 553	Statistical Methods	3 (2+1)
Minor Courses	AEC - 503	Agricultural Marketing and Price Analysis	3(2+1)
Supporting Courses	STAT 501	Mathematics for Applied Sciences	2 (2+0)
	STAT 502	Statistical Methods for Applied Sciences	4(3+1)
Common Courses	PGS 501	Library and Information Services	1 (0+1)
	PGS 504	Basic Concepts in Laboratory Techniques	1 (0+1)
Research	STAT 599	Master's Research	3 (0+3)
		Total Credit	**19(11+8)**
SEMESTER-II			
Major Courses	STAT 562	Statistical Inference	3 (2+1)
	STAT 563	Design of Experiments	3 (2+1)
	STAT 564	Sampling Techniques	3 (2+1)
Minor Courses	AEC - 505	Econometrics	3(2+1)
Common Courses	PGS 502	Technical Writing and Communications Skills	1 (0+1)
	PGS 503	Intellectual Property and its management in Agriculture	1 (1+0)
	PGS 505	Agricultural Research, Research Ethics and Rural Development Programmes	1 (0+1)
Research	STAT 599	Master's Research	6 (0+6)
		Total Credit	**21(9+12)**
SEMESTER-III			
Major Courses	STAT 565	Statistical Genetics	3 (2+1)
	STAT 571	Multivariate Analysis	3(2+1)
Minor Courses	AEC - 508	Linear Programming	2(1+1)
Research	STAT 599	Master's Research	10 (0+10)
		Total Credit	**18(5+13)**
SEMESTER-IV			
Seminar	STAT-591	M. Sc. (Ag) Seminar	1 (0+1)
Research	STAT 599	Thesis Submission & Viva-Voce	11(6+5)
		Total Credit	**12(0+12)**
		Overall Credit	**70(25+45)**

Courses for M.Sc. (Ag.) (Agricultural Statistics) Degree Programme

(Upto the Academic Session: 2021-22)

Courses	Course No.	Course Title	Credit
SEMESTER-I			
Major Courses	STAT-513	Probability theory	2 (2+0)
Minor Courses	AE - 516	Optimization Techniques	3(2+1)
	GPB - 511	Principles of Genetics	3(2+1)
Supporting Courses	STAT-515	Computer Application	3(1+2)
	STAT-516	Mathematical Methods	3(3+0)
Deficiency Courses	STAT-511	Essential Statistical Methods	3(2+1)
Compulsory Courses	LIB - 511	Use of Scientific and Technical Literature	1(1+0)
		Total Credit	**18(13+5)**
SEMESTER-II			
Major Courses	STAT-524	Statistical Inference	3(3+0)
Minor Courses	AE - 522	Econometrics	3(2+1)
Deficiency Courses	STAT-521	Basic Design & Analysis of Experiments	3 (2+1)
	STAT-523	Economic Statistics	3(2+1)
Seminar	STAT-591	M. Sc. (Ag) Seminar	1 (0+1)
Research	STAT-600	M. Sc. (Ag) Thesis Research	5 (0+5)
		Total Credit	**18(9+9)**
SEMESTER-III			
Major Courses	STAT-514	Statistical Methods	4(3+1)
	STAT-517	Design of Experiments-I	3(2+1)
	STAT-518	Sampling Techniques-I	3(2+1)
	STAT-519	Statistical Genetics-I	3(2+1)
Research	STAT-600	M. Sc. (Ag) Thesis Research	5 (0+5)
		Total Credit	**18(9+9)**
SEMESTER-IV			
Major Courses	STAT-525	Applied Multivariate Methods	3(2+1)
Research	STAT-600	Thesis Submission & Viva-Voce	10(5+5)
		Total Credit	**13(2+11)**
		Overall Credit	**67(33+34)**

(B) Courses for Ph.D. (Agricultural Statistics)

Courses for Ph.D. (Agricultural Statistics) Degree Programme

(From Academic Session: 2022-23 onwards, as per new BSMA guidelines of ICAR)

Courses	Course No.	Course Title	Credit
SEMESTER-I			
Major Courses	STAT 601	Advanced Data Analytics	3 (1+2)
Minor Courses	AEC-606	Advanced Agricultural Marketing and Price Analysis	3(2+1)
Supporting Courses	STAT 613	Advanced Sampling Techniques	3 (2+1)
Research	STAT 699	Doctoral Research	5 (0+5)
		Total Credit	**14(5+9)**
SEMESTER-II			
Major Courses	STAT 604	Advanced Statistical Methods	3(2+1)
Minor Courses	AEC-603	Advanced Econometrics	3(2+1)
Supporting Courses	STAT 612	Advanced Design of Experiments	3 (2+1)
Research	STAT 699	Doctoral Research	8 (0+8)
		Total Credit	**17(6+11)**
SEMESTER-III			
Major Courses	STAT 602	Simulation Techniques	2(1+1)
Minor Courses	AEC-605	Operations Research	3(2+1)
Research	STAT 699	Doctoral Research	12 (0+12)
		Total Credit	**17(3+14)**
SEMESTER-IV			
Major Courses	STAT 603	Linear Models	2 (2+0)
Research	STAT 699	Doctoral Research	15 (0+15)
		Total Credit	**17(2+15)**
SEMESTER-V			
Major Courses	STAT 611	Bayesian Inference	2 (2+0)
Seminar	STAT-691	Ph.D. Seminar- I	1(0+1)
Research	STAT 699	Doctoral Research	15 (0+15)
		Total Credit	**18(2+16)**
SEMESTER-VI			
Seminar	STAT-691	Ph.D. Seminar- II	1(0+1)
Research	STAT 699	Thesis Submission & Viva-Voce	20(15+5)
		Total Credit	**21(0+21)**
		Overall Credit	**104(18+86)**

Courses for Ph.D. (Agricultural Statistics) Degree Programme

(Upto the Academic Session: 2021-22)

Courses	Course No.	Course Title	Credit
SEMESTER-I			
Major Courses	STAT-611	Linear Models and Regression Analysis	3(2+1)
	STAT-612	Advance Statistical Inference	1(1+0)
Minor Courses	AE 512	Research Methodology	3(2+1)
	AE 513	Farm Management Analysis	3(2+1)
	AE 515	Agricultural Marketing and Prices	3(2+1)
Seminar	STAT-691	Ph.D. Seminar- I	1(0+1)
Research	STAT-700	Ph.D. Thesis Research	4(0+4)
		Total Credit	**18(9+9)**
SEMESTER-II			
Major Courses	STAT-621	Advanced Design of Experiment-I	2(1+1)
	STAT-622	Advanced Design of Experiment-II	2(1+1)
	STAT-623	Advanced Sample Surveys-I	2(1+1)
	STAT-624	Advanced Sample Surveys-II	2(1+1)
Minor Courses	AE 622	Advanced Econometrics	3(2+1)
Seminar	STAT-691	Ph.D. Seminar- II	1(0+1)
Research	STAT-700	Ph.D. Thesis Research	6(0+6)
		Total Credit	**18(6+12)**
SEMESTER-III			
Research	STAT-700	Ph.D. Thesis Research	10(0+10)
		Total Credit	**10(0+10)**
SEMESTER-IV			
Research	STAT-700	Ph.D. Thesis Research	10(0+10)
		Total Credit	**10(0+10)**
SEMESTER-V			
Research	STAT-700	Ph.D. Thesis Research	5(0+5)
		Total Credit	**5(0+5)**
SEMESTER-VI			
Research	STAT-700	Thesis Submission & Viva-Voce	10(5+5)
		Total Credit	**10(0+10)**
		Overall Credit	**71(15+56)**

Under-Graduate Courses

❖ List of Under-Graduate Courses offered through the Department

Sl. No.	Course No.	Course Title	Credit	Name of Instructor(s)
College of Agriculture, A.N.D.U.A.T, Kumarganj, Ayodhya				
1.	MATH-111	Elementary Mathematics	2 (2+0)	Dr. Manish Kumar / Dr. Piyush Kumar Singh
2.	STAT-211	Statistical Methods	2 (1+1)	Dr. Manish Kumar / Dr. Piyush Kumar Singh
3.	STAT-212	Agricultural Informatics	2 (1+1)	Dr. Vishal Mehta / Dr. Manish Kumar
4.	MATH-101	Basic Mathematics-I	3 (3+0)	Dr. Manish Kumar
5.	MATH-102	Basic Mathematics-II	3 (3+0)	Dr. Manish Kumar / Dr. Piyush Kumar Singh
6.	STAT-101	Basic Statistics	2 (1+1)	Dr. Vishal Mehta / Dr. Piyush Kumar Singh
College of Agriculture, Kotwa, Azamgarh Campus				
1.	MATH-111	Elementary Mathematics	2 (2+0)	Dr. Manish Kumar / Dr. Vishal Mehta
2.	STAT-211	Statistical Methods	2 (1+1)	Dr. Manish Kumar / Dr. Vishal Mehta
3.	STAT-212	Agricultural Informatics	2 (1+1)	Dr. Vishal Mehta / Dr. Manish Kumar
College of Fisheries, A.N.D.U.A.T, Kumarganj, Ayodhya				
1.	FES-111	Statistical Methods	3 (2+1)	Dr. Manish Kumar / Dr. Piyush Kumar Singh
2.	FES-121	Information and Communication Technology	2 (1+1)	Dr. Vishal Mehta/ Dr. Manish Kumar
College of Community Science, A.N.D.U.A.T, Kumarganj, Ayodhya				
1.	STAT-211	Elementary Statistics	3 (2+1)	Dr. Manish Kumar / Dr. Piyush Kumar Singh
2.	HECM-413	Web Designing and Multimedia Production	4 (0+4)	Dr. Vishal Mehta / Dr. Manish Kumar
3.	HECM-321	Information and Communication Technology	3 (1+2)	Dr. Vishal Mehta / Dr. Manish Kumar
College of Horticulture & Forestry, A.N.D.U.A.T, Kumarganj, Ayodhya				
1.	STAT-111(H)	Elementary Statistics and Computer Application	3 (2+1)	Dr. Vishal Mehta / Dr. Manish Kumar
2.	STAT-121(H)	Information and Communication Technology	2 (1+1)	Dr. Vishal Mehta / Dr. Manish Kumar

FACILITIES AND INFRASTRUCTURE

❖ Classrooms and Laboratories

Lecture Room	:	**01**
Computer Lab-cum-Seminar Room	:	**01**
PG Computer Lab	:	**01**
ARIS Lab-cum-Server Room	:	**01**
ARIS Lab-II (For Ph.D. Students)	:	**01**
Departmental Library	:	**01**

❖ Equipments

Computer	:	**40**
Printer	:	**01**
Photocopier- cum-Printer	:	**01**
Projector	:	**01**
Display Board	:	**02**

GLIMPSES OF THE DEPARTMENT

Computer Lab-cum-Seminar Room
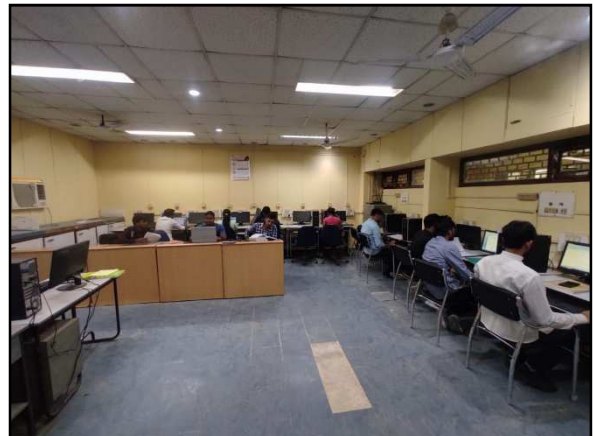
PG Computer Lab

ARIS Lab-cum-Server Room

ARIS Lab-II