कीट विज्ञान विभाग

आचार्य नरेंद्र देव कृषि एवं प्रौद्योगिक विश्वविद्यालय

कुमारगंज, अयोध्या–224229 (उ०प्र०), भारत

Department of Entomology

Acharya Narendra Deva University of Agriculture and Technology,

Kumarganj, Ayodhya-224229 (U.P.), India

ABOUT THE DEPARTMENT: The Department of Entomology came into existence in 1977 with the start of under graduate teaching in agriculture leading to B. Sc. (Ag.) under the college of Agriculture. The teaching of Postgraduate programme began in 1978. The of Ph.D. programmes began in 1982 under the Headship of Dr. S.M.A. Rizvi. Till now department has produced 264 M.Sc. (Ag) and 47 Ph.D. students. Major achievements of the department have been in the field of developing highly skilled personnel placed in reputed institutions, state department of Agriculture and Public Sector Undertakings. The technologies developed by the department are being regularly transferred to the farmers by the university. A major achievement of the department has been striking a balance in pursuing both the basic and applied aspects of entomology.

VISION: To be a leader in Entomological science by promoting quality education and multi-disciplinary research and extension in various fields of Entomology.

MISSION: To be a leader in Entomological science by promoting quality education, innovative and multidisciplinary research, and sustainable insect pest management technologies for enhancing agricultural productivity, conserving beneficial insects, and ensuring environmental sustainability.

OBJECTIVES:

- To develop effective resident instruction program in entomology.
- To develop and strengthen different fields of specialization in entomology.
- To generate basic and applied information based on ecology, systematics, toxicology, physiology, molecular biology and economic entomology to develop sustainable insect pest management in different crops/cropping systems.
- To develop technology for propagation and strain improvement of useful insects and quality of their products.
- To transfer technology developed for management of insect pests to end users.

FACULTY STRENGTH:

Sr. No.	Name of faculty	Designation
1.	Dr. Rudra Pratap Singh	Head
2.	Dr. Sameer Kumar Singh	Assistant Professor
3.	Dr. Ram Veer	Assistant Professor
4.	Dr. Kamal Ravi Sharma	Assistant Professor
Associated Faculty		
5.	Dr. Pankaj Kumar	Associate Professor (Entomology), Department of Genetics & Plant Breeding
6.	Dr. Pradeep Kumar Dalal	Assistant Entomologist/Assistant Professor, Department of Vegetable Science
7.	Dr. Vinod Kumar	Assistant Entomologist/Assistant Professor, Department Seed Science & Technology
8.	Dr. Vinod Kumar Dubey	Assistant Entomologist/Assistant Professor, Department of Genetics & Plant Breeding

Faculty Profile



Dr. Rudra Pratap Singh

Associate Professor& Head
Entomology
rudrapsingh.doe@gmail.com
Mob.No. 8447363053

Designation: Associate Professor & Head
Research Interests & Expertise: Entomology
Qualifications: UG: B. Sc. (Ag.) in 2000, VBS Purvanchal University Jaunpur; **PG:** M. Sc. (Ag.) Entomology in 2002 Narendra Deva University of Agriculture & Technology, Kumarganj, Ayodhya; **Ph.D.:** Ph.D. (Entomology) in 2009, Narendra Deva University of Agriculture & Technology, Kumarganj, Ayodhya (U.P.)
Experience: >22 Years (Teaching, Research, Extension and Admin.*)
Research Projects / Consultancies: 10
Patents: 01 (In process)
Other Qualifications: ASRB NET in 2004
Publications:
Research Paper: 56, **Books / Booklets:** 06, **Technical Bulletins:** 08
Leaflets: 16, **Book Chapters:** 12, **Popular Articles:** 67
Awards & Recognitions: 21
Students Guided: M. Sc. - 03, Ph.D. (03 persuing)
*> 3 years working experience as Group 'A' Officer in Central & State Govt.



Dr. Sameer Kumar Singh

Assistant Professor

skbhu1991@gmail.com
drsameerent@nduat.org
Mob. No: 9936662265 & 8896085738

Designation: Assistant Professor

Research Interests & Expertise: Entomology

Qualifications: UG: B.Sc. (Agriculture) Hons. 2011, Chhatrapati Shahu Ji Maharaj University, Kanpur, Uttar Pradesh, India; PG: M.Sc. (Ag) in Entomology and Agricultural Zoology 2013, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, Uttar Pradesh, India; Ph.D.: Ph.D. Entomology and Agricultural Zoology 2018, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, Uttar Pradesh, India

Research Projects / Consultancies: 09

Patents: 02

Other Qualifications: ASRB NET in 2014 & 2021

Experience: Teaching: 7 years 8 Months; Research: 7 years 8 Months; Industry: Nil; Extension: 7 years 8 Months

Journal Publications: 102

Books / Booklets: 04

Book Chapters: 21

Popular Articles: 56

Awards & Recognitions: 08

Students Guided: M.Sc.: 24, Ph.D. 03



Dr. Ram Veer

Assistant Professor

ramveer5251@gmail.com

ramveerent@nduat.org

9554594236

Designation: Assistant Professor

Research Interests & Expertise: Entomology

Qualifications: UG: B.Sc. (Agriculture) Hons., CSJMU, Kanpur, Uttar Pradesh, India; PG: M.Sc. (Ag) in Entomology, ANDUA&T., Kumarganj, Ayodhya, Uttar Pradesh, India; Ph.D.: Ph.D. (Entomology), ANDUA&T., Kumarganj, Ayodhya, Uttar Pradesh, India

Patents: 01

Other Qualifications: ASRB NET in 2018.

Experience: Teaching: 03 years 10 Month; Research: 03 year; Industry: Nil; Extension: 03 year

Journal Publications: 29

Books / Booklets: 01, **Book Chapters:** 05

Students Guided: M.Sc.: 03



Dr. Kamal Ravi Sharma

Assistant Professor

krsharma.ento@nduat.org

ravikamal8075@gmail.com

Mob No. : 8545821867

Designation: Assistant Professor

Research Interests & Expertise: Entomology, HPR, Insecticide Toxicology, Storage Entomology

Qualifications: UG: B.Sc. (Agriculture) Hons. 2015, Chandra Shekhar Azad University of Agriculture & Technology, Kanpur, Uttar Pradesh, India; PG: M.Sc. (Ag) in Entomology and Agricultural Zoology 2017, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, Uttar Pradesh, India; Ph.D.: Ph.D. Entomology and Agricultural Zoology 2021, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, Uttar Pradesh, India

Research Projects / Consultancies: 06

Patents: 02

Other Qualifications: - ASRB NET in 2018 & 2021

Experience: Teaching: 3 Years; Research: 03 years; Extension: 03 Years

Journal Publications:

Research Papers: 67 **(**National 54; International 13), **Review paper:** 06

Books / Booklets: 03, **Book Chapters:** 23, **Technical Buletins**-04;

Popular Articles: 35

Students Guided: M.Sc.: 03, Ph.D. 01 (Pursuing)

Awards & Recognitions: 08

Associated Faculty Profile



Dr. Pankaj Kumar
Associate Professor
mailto:pk_scientist@yahoo.co.in
Mob. No. 94159 18411

Designation: Associate Professor, Entomology
Research Interests & Expertise: Entomology
Qualifications: UG: B. Sc. (Ag. &A.H.) in 1998; PG: M. Sc. (Ag.) Entomology, 2000; Ph.D.: Ph.D. (Entomology) in 2019, CSAUAT, Kanpur (U.P.)
Experience: Teaching: >22 Years; Research: >24 Years; Industry: -; Extension: 04 Years
Publications :
Research Paper : National 38; International 04
Conference Papers: International 03
Books / Booklets: Books-8, **Book Chapters:** 04
Compendium-02**,**
Achievements: Research Projects 2 (AICRP-02- MULLaRP and Chickpea),
Technologies Developed-5
Students Guided: Ph. D. - 07, M. Sc. -22



Dr. Pradeep Kumar Dalal
Assistant Entomologist/Assistant Professor
drpradeep.entovs@nduat.org
pradeepdalalag@gmail.com
Mob. No: 9467086187 & 7015622349

Designation: Assistant Entomologist/Assistant Professor
Research Interests & Expertise: Vegetable Entomology, Apiculture and Insect nutrition
Qualifications: UG: B.Sc. (Hons) Ag. From CCSHAU Hisar.; PG: M.Sc. (Entomology) from PAU Ludhiana; Ph.D.: Ph.D. (Entomology) from CCSHAU, Hisar.
Research Projects / Consultancies / Patents: Co-PI in AICRP on Potato
Other Qualifications: ICAR-Junior Research Fellowship in 2012**,** ASRB NET in 2014
Experience: Teaching: 3 years; Research: 7 years 3 months; Industry: Nil; Extension: 9 months
Journal Publications: National: 24, International: 12
Conference Papers: National: 06, International :07
Books / Booklets: 03, **Book Chapters:** 10, **Extension Folders:** 04
Students Guided: M.Sc.: 02
Awards & Recognitions: 03



Dr. Vinod Kumar

Assistant Professor

vinod.afh@gmail.com

drvk.gattas@nduat.org

Mob. No: 8755311567

Designation: Assistant Professor
Research Interests & Expertise: Entomology (Storage , Fruit and Vegetable Entomology and HPR)
Qualifications: UG: B.Sc.(Ag) ; D. B. R. A. U , AGRA , PG: M.Sc.(Ag) in Entomology ; Ph.D.: Ph.D. Entomology, S.V.P.U.A&T, Meerut.
Research Projects / Consultancies / Patents: Nil
Other Qualifications: ASRB NET in 2021
Experience: Teaching: 5 years; Research: 3 ; Industry: Nil; Extension: Nil
Journal Publications: National: 25, International: 03
Conference Papers: Nil
Books / Booklets: 02
Book Chapters: 01
Students Guided: M.Sc.: 17
Awards & Recognitions: 03



Dr. Vinod Kumar Dubey

Assistant Entomologist/Assistant Professor

vinodkumardubey42@gmail.com
Mob. No: 9456890250
9720140856

Designation: Assistant Entomologist/Assistant Professor

Research Interests & Expertise: Insects Taxonomy, Host plants resistance, Pesticides Residue Analysis and Beekeeping

Qualifications: UG: B. Sc. (Ag.) Hons. in 2018 (SVPUAT, Meerut, Uttar Pradesh); PG: M. Sc. (Ag.) Agricultural Entomology, 2020 (KSNUAHS, Shivamogga, Karnataka); Ph.D.: Ph.D. (Entomology) in 2024, RPCAU, Pusa, Bihar;

ASRB NET: 2021

Experience: Teaching: >2 Years; Research: >2 Years Extension: >2 Years

Publications : Research Paper : National 17; International 14; **Conference Papers**: National 03; International 05; **Review paper:** 06

Books / Booklets: Books-03; **Edited Books**-01; **Compendium** -02; **Technical Buletins**-04; **Book Chapters**: 34

Achievements: Research Projects (PI: 02; Co-PI: 05),

Patent-02

Awards & Recognitions: 01

Students Guided: M. Sc.-01

PROGRAMMES OFFERED

1. M. Sc. (Ag.) Entomology 2. Ph.D. Entomology

PG and Ph.D. Courses

Year and Semester	Course Code	Title	Credit Hours
B.Sc. (Hons.) Agriculture			
I Year II Semester	**APE-121**	Fundamentals of Entomology	3 (2+1)
I Year II Semester	**APP-APE-122**	Biofertilizers and Biopesticides Production	2(0+2)
II Year II Semester	**APE-221**	Beneficial Insect Farming	2 (0+2)
III Year I Semester	**APE-311**	Pest Management in Crops and Stored Grains	3 (2+1)
IV Year I Semester	**APP/APE 411**	Biopesticides and Biofertilizers	4 (3+1)
B.Sc. (Hons.) Horticulture			
II Year I Semester	**HENT-221**	Pest Management in Horticulture Crops	3 (2+1)
II Year II Semester	**HSE - 223**	Sericulture	2 (0+2)
III Year II Semester	**HSE-211**	Apiculture	2 (0+2)
B.Sc. (Hons.) Forestry			
III Year I Semester	**FORM-312**	Forest Pest and Diseases	3 (2+1)
B. Tech Biotech			
II Year I Semester	**BFC-213**	Fundamental of Crop Protection	3 (2+1)
M. Sc. (Ag.)			
I Year I Semester	**ENT 501***	Insect Morphology	3 (2+1)
	ENT 502*	Insect Anatomy and Physiology	3 (2+1)
	ENT 504*	Insect Ecology	3 (2+1)
	ENT 509*	Pests of Field Crops	3 (2+1)
	ENT 515	Techniques in Plant Protection	1 (0+1)
I Year II Semester	**ENT 503***	Insect Taxonomy	3 (1+2)
	ENT 505*	Biological Control of Insect Pests and Weeds	3 (2+1)
	ENT 510*	Pests of Horticultural and Plantation Crops	3 (2+1)
	ENT 511*	Post-Harvest Entomology	2 (1+1)
	ENT 507	Host Plant Resistance	2 (1+1)
	ENT 513	Principles of Acarology	2 (1+1)
	ENT 514	Vertebrate Pest Management	2 (1+1)
	ENT 519	Molecular Approaches in Entomology	3 (2+1)
	ENT 520	Plant Quarantine, Biosafety and Biosecurity	2 (2+0)
	ENT 521	Edible and Therapeutic Insects	2 (1+1)
	ENT 522	Medical and Veterinary Entomology	2 (1+1)
II Year I Semester	**ENT 506***	Toxicology of Insecticides	3 (2+1)
	ENT 508*	Concepts of Integrated Pest Management	2 (2+0)
	ENT 516	Apiculture	3 (2+1)
	ENT 517	Sericulture	3 (2+1)
	ENT 518	Lac Culture	3 (2+1)
	ENT 523	Forest Entomology	2 (1+1)

II Year II Semester	**ENT 591**	Master's Seminar	1 (0+1)
	ENT 599	Master's Research	30 (0+30)
Ph.D.			
I Year I Semester	**ENT 602****	Insect Physiology and Nutrition	3 (2+1)
	ENT 604	Insect Behaviour	2 (1+1)
I Year II Semester	**ENT 601****	Insect Phylogeny and Systematics	3 (1+2)
	ENT 607	Plant Resistance to Insects	2 (1+1)
II Year I Semester	**ENT 603****	Insect Ecology and Diversity	3 (2+1)
	ENT 610	Integrated Pest Management	2 (2+0)
II Year II Semester	**ENT 606****	Insect Toxicology and Residues	3 (2+1)
	ENT 609	Molecular Entomology	2 (1+1)
III Year I Semester	**ENT 605****	Bio-inputs for Pest Management	3 (2+1)
	ENT 691	Doctoral Seminar – I	1 (0+1)
III Year II Semester	**ENT 692**	Doctoral Seminar – II	1 (0+1)
	ENT 699	Doctoral Research	75 (0+75)

***Compulsory Major Courses for M.Sc. (Ag.) and **Compulsory Major Courses for Ph.D.**

List of Major equipment Available in the Department

S. No.	Name of equipment	Nos
1.	Centrifuge Machine	02
2.	Refrigerator	04
3.	Balance	02
4.	Simple Dissecting Microscopes	64
5.	Monocular Microscopes	03
6.	Binocular Microscopes	22
7.	Oven	03
8.	Digital pH meter	02
9.	BOD Incubators	03
10.	Computer	02
11.	Photocopier Machine	02
12.	Electronic balance	03
13.	Prismatic Binmocular	01
14.	Honey extractor	04
15.	Humidifier	01
16.	Maruti hand sprayer	02
17.	Insect rearing cagc	15
18.	Insect light trap	01
19.	Moisture meter	02
20.	Foot sprayer	02
21.	Chcnometric balance	02
22.	Digital spectrophotometer	04
23.	Inoculation chamber	01
24.	Getner Advance binocular microscope	01
25.	Orient hand rotary duster	01
26.	Incubator	03
27.	Olympus magnus microscope	03
28.	Power sprayer	01

29.	Digital thermometer	01
30.	Digital humidity temperature meter	01
31.	Mixer grinder	02
32.	Vortex Mixers	01
33.	Minifuge	01
34.	Soxhlet Apparatus	01
35.	Microscope - Pathological and Research	01
36.	LCD Display Moisture Analyser	01
37.	Electronic Weighing Scale	01

Ongoing Research Projects

S. No	Title of The Project	Amount (in Lakhs)	Funding agency	Duration
1.	Assessing the impacts of new invasive thrips species, *Thrips parvispinus* infestation on chilli and their sustainable management. (Principal Investigator - Dr. Kamal Ravi Sharma).	15.36	Council of Science and Technology, Uttar Pradesh	2026-2029
2.	Evaluation of Bio efficacy of NII 2002 (Flubendamide 5.75% + Emamectin benzoate 1.99% w/w ME) insecticide against leaf folder of rice. (Principal Investigator - Dr. Rudra Pratap Singh).	5.60	NICHINO INDIA PVT. LTD.	2026-2027
3.	The investigation of Metarhizium anisopliae 5% (strain code- IPL/KC/44) *Beauveria bassiana* 5% (strain code- IPL/BB/MI/01) (SC lethal concentration) (LC_{50} and LC_{90}) against okra shoot and fruit borer (Earias vittella) Fab. (Principal Investigator - Dr. Sameer Kumar Singh).	2.54	IPL Biologicals Limited	2026-27

Major Achievements the Department (Teaching, Research, Extension)

S. No	Major Achievement
1.	Last five years, the Department has successfully undertaken seven externally funded research projects worth ₹334.75 lakh from RKVY, NATCO Pharma, GSP Crop Science, ICAR-IIWBR and Gharda Chemicals Ltd., focusing on bioefficacy, phytotoxicity and sustainable pest management. Major achievements include the establishment of a Biofertilizer and Biopesticide Research Centre and the promotion of drone-based pest surveillance and crop protection technologies.
2.	Over the last five years, the Department has published more than 100 research papers in reputed national and international journals, along with 10 books and 12 book chapters, demonstrating its significant contribution to agricultural research and scientific advancement.
3.	Patent and Design Achievements: During 2024–2025, the Department achieved three intellectual property publications, comprising one Indian patent application and two registered designs related to innovative insect-trapping devices, pest food-choice testing and sustainable pest management technologies.
4.	A total of 17 students of the Department successfully qualified the ICAR-ASRB National Eligibility Test (NET) during 2020–2025, reflecting the Department's academic excellence, quality teaching and commitment to preparing students for careers in agricultural education and research.
5.	Over the last five years, A total of 29 students of the Department have secured prestigious positions in government departments, agricultural universities, Krishi Vigyan Kendras (KVKs), research institutions and leading private organizations, including PI Industries and Syngenta, reflecting the Department's excellence in education, research and career development.
6.	Mr. Venkatesh Padimi, a postgraduate student of the Department, has been selected for the Ph.D. programme in Entomology at Nachappa Lab, Department of Agricultural Biology, Colorado State University, Fort Collins, USA.
7.	M.Sc. student Ms. Vaishnavi Chaturvedi was awarded the Summer Research Fellowship 2025–2026 by the Council of Science & Technology, Uttar Pradesh (UP-CST), securing 3rd rank in the state. Under this fellowship, she is undertaking a two-month research internship at ICAR–IARI, New Delhi, with a total fellowship grant of ₹50,000 (₹25,000 per month). Application No.: CSTSRF247995.

Distinguished Alumni of the Department

S. No	Name of Alumni	Designation and Address	Degree
1.	Dr. H.S. Singh,	Principal Scientist and Head of Division, Division of Crop Protection, ICAR- Central Institute for Subtropical Horticulture, Rehmankhera, P.O, Kakori, Uttar Pradesh 226101, India.	M.Sc. and Ph.D.
2.	Dr. Abu Manzar	Professor, Division of Entomology, Sher-e-Kashmir University of Agricultural Sciences and Technology -Kashmir, Shalimar Campus, Srinagar (Jammu and Kashmir) India-190025	M.Sc. and Ph.D.
3.	Dr. Bhupendra Kumar Singh	Professor (Entomology), Banda University of Agriculture and Technology, Banda, Uttar Pradesh 210001, India	M.Sc. and Ph.D.
4.	Dr. Akhilesh Kumar Singh	Associate Professor & Head, Department of Entomology, Rani Lakshmi Bai Central Agricultural University Jhansi.	M.Sc.
5.	Dr. Dinesh Chandra Rajak	Joint Director, Directorate of Plant Protection, Quarantine, and Storage, Faridabad, Haryana -121001, India.	M.Sc. and Ph.D.
6.	Dr. Raghuraj Pratap Singh	Deputy Director (Agriculture) District Pratapgarh, Uttar Pradesh.	M.Sc. and Ph.D.
7.	Dr. Samar Bahudur Singh	Assistant Director, Sericulture Department, Bahraich, Uttar Pradesh, India.	M.Sc. and Ph.D.
8.	Dr. Gyan Prakash Singh	Joint Director, (Entomology) RPQS, Mumbai	M.Sc. and Ph.D.
9.	Dr. S. N. Satapathy	Associate Professor, Department of Entomology, College of Agriculture, Odisha University of Agriculture and Technology, Odisha, India	M.Sc.
10.	Dr. Sachin Arya	Entomologist, Directorate of Horticulture, Lucknow, U.P. Government	M.Sc.

Photographs of Different Activities











