College of Horticulture & Forestry
Acharya Narendra Deva University of Agriculture and Technology,Kumarganj, Ayodhya-224229 (U.P.), India

About College

1. Historical Background

Dr. Basant Ram, the then Vice- Chancellor and Dr. B.P. Singh, first Dean of the college inaugurated the college and the departments, were shifted in the new college building on 11th December, 2009. Before establishment of College of Horticulture & Forestry, Department of Horticulture was initiated in the year 1977, the research work on horticultural crops were started at the Crop Research Station (CRS) Mashodha are later shifted to the main campus of the University at Kumarganj, Ayodhya. Initially all the disciplines viz. Fruit Science, Vegetable Science, Ornamental Horticulture & Post- Harvest Technology were included in Department of Horticulture. Later on, in the year 1981 a separate Department of Vegetable Science was established.

The College of Horticulture & Forestry was established in December 2009. It is situated at prime location of university in the front of administrative block of university in area of about 2 hectare. The geographical and climatic conditions of the region are quite congenial for the production of horticulture and forestry crops. In the year 1980 orchard of Aonla, Bael, Ber, Grapes, Mango, Guava and different minor fruit were established in alkaline soil after reclamation. It's experimental farms (Area 1- 300 hectare, Area 2- 100 hectare, Area 3- 25 hectare and Area 4- 25 hectare). The journey of Horticulture & Agro-Forestry started as Department of Horticulture & Agro-Forestry in College of Agriculture, A.N.D. University of Agriculture and Technology, Kumarganj, Ayodhya in 1986.

Prof. Sanjay Pathak
Dean
College of Horticulture & Forestry

From Dean's Desk:

The need for horticultural science education in agricultural universities arose with increased demand and recognition of the role of rural horticultural farmers in contributing to the family economy and increasing their standard of living. As a result, the status of horticultural science has increased and the demand for this education is on the rise and the potential for jobs in different fields is also enormous. Its scope is not limited to improving farmer's family life only, but education plays a key role in the welfare of the society. Agri-hoticultural scientists are actively engaged in confronting the emerging challenges with broader scientific vision and tackling the issues through holistic approaches for evolving and refining the viable technologies with angular societal aspirations for ensuring sustainable livelihoods and better economic options for different economic strata.

Collection and conservation of germplasm in mandate crops especially Aonla has led to development of improved Aonla varieties NA-7 through sustained affords in release during the period. Soil management, water productively, irrigation, fertilizer management, pest and diseases management options have been pursued vigorously and experimented upon in view of obtaining better utilization of natural resources for maximization of productivity potential. Technology dissemination and its refinement strategies have been attended through farmers- scientists' interaction, farm visits, training programme and technology impact assessment approaches. The college endears itself to bring about strategies for improving the livelihood options of farmers through sustainable approaches of integrated horticultural development in the coming years. The contributions the entire concerned department, technical, nontechnical, accounts and other supporting staff in shaping this college are gratefully acknowledged.

2. Present Status:

At present college is committed to provide education in 6 streams viz. Fruit Science, Vegetable Science, Floriculture & Landscaping, Silviculture & Agro-Forestry, Medicinal & Aromatic Plants, Post Harvest Management as per the recommendation of 5th Dean's Committee (at UG programme and 19th BSMA for PG and Ph. D programme). The college focuses on developing skills and strengths of the students based on scientific principles and knowledge acquired for day-to-day living; promotion of analytical abilities of students towards innovative research, teaching and research to augment the quality of life of farmers, community and industry in the changing scenario, enhancing entrepreneurial skills for professional careers. The college offers one under graduate programmes B.Sc. (Hons.) Horticulture and various post

graduate degree programmes (Master's and Ph.D.). The college has six departments with faculty strength of 24 engaged in Teaching, Research, Extension and training activities in the field of horticulture and forestry. The college is well equipped with model infrastructure facilities required to carry out high quality teaching, research, extension and other training activities.

Departments

1- Department of Fruit Science

2- Department of Floriculture and Landscaping

3- Department of Post Harvest Management

4- Department of Medicinal and Aromatic Plants

5- Department of Vegetable Science

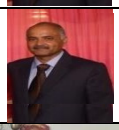
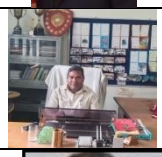
6- Department of Silviculture & Agro-forestry

Vision Mission and Goals:

To provide teaching facilities to undergraduate (Horticulture, Agriculture, Home Science and Agriculture Engineering), post graduate and doctoral programme.

1. The conduct research on various aspects of tropical, sub-tropical and temperate fruits, ornamental crops, vegetable crops, medicinal and aromatic plants including their post harvest management.
2. Establishment of model nursery of fruits, vegetables, ornamental, medicinal and aromatic crops and assuring their supply to research institutes and farmers.
3. Landscaping and beatification of the university campus, instructional and other research farms.
4. To communicate research achievements and developed technologies to the farmers.

Faculty of College of Horticulture and Forestry

S. No	Name & Designation	Department/ College	Mob.No. & Email. ID	Photo
1.	Dr. Sanjay Pathak Dean	College of Horticulture & Forestry	9415720124 sanjay.pathakhort@gmail.com	
2.	Dr. Sanjay Pathak, Professor and Head	Fruit Science	9415720124 sanjay.pathakhort@gmail.com	
3.	Dr. D. Ram Professor	Horticulture	9450717709 drdram.map@gmail.com	
4.	Dr Bhagwan Deen, Professor and Head	Post Harvest Management	9451203838 drbdpasi@gmail.com	
5.	Dr. Bhanu Pratap, Professor and Head	Medicinal and Aromatic Plants	9415439398 drbhanupratap71@gmail.com	
6.	Dr. C.N. Ram, Professor and Head	Vegetable Science	9451205686 cnram2006@gmail.com	
7.	Dr. H.K. Singh, Associate Professor	Plant Pathology	9415720179 hksndu@gmail.com	
8.	Dr. S.K. Verma, Associate Professor and Head	Floriculture and Landscaping	9450234406 vermasant@gmail.com	
9.	Dr. S.K. Verma, Associate Professor and Head	Agro-Forestry	9115230421 ver.sanj@gmail.com	
10.	Dr. Pradeep Kumar, Assistant Professor	Plant Pathology	9415475037 pradipnduat07@gmail.com	
11.	Dr. R.S. Mishra, Assistant Professor	Plant Pathology	9450045737 drramsumanmishra@gmail.com	
12.	Dr. Yashmita Ulman Nitin, Assistant Professor	Agro-Forestry	9871360055 yashmita2018@gmail.com	
13.	Dr. Aastik Jha, Assistant Professor	Vegetable Science	9453909227 aastikiivr@gmail.com	
14.	Dr. Anil Kumar, Assistant Professor	Vegetable Science	9415474728 akkakori@gmail.com	

15.	Dr. Devendra Kumar, Assistant Professor	Agroforestry	9455697796 devendraagfkumar@gmail.com	
16.	Dr. Shayama Parveen, Assistant Professor	Agroforestry	9452724360 shyama.agro@gmail.com	
17.	Dr. Anjali Tiwari, Assistant Professor	Agroforestry	8209201579 anjalitiwari2807@gmail.com	
18.	Dr. Ashish Kumar Singh, Assistant Professor	Vegetable Science	9415577639 aksingh7639@gmail.com	
19.	Dr. Jagveer Singh, Assistant Professor	Fruit Science	9915949698 jagveersinghhort@gmail.com	
20.	Dr. Atul Yadav Assistant Professor	Fruit Science	9795973121 atulnduat15@gmail.com	
21.	Dr. Kuldeep Pandey Assistant Professor	Fruit Science	9455185388 pandeykuldeephort@gmail.com	
22.	Dr. Niranjan Singh Assistant Professor	Fruit Science	9882416628 niranjansinghfruits@gmail.com	
23.	Dr. Sunil Kumar Assistant Professor	Floriculture and Landscaping	9625665033 sunilfls13@gmail.com	
24.	Dr. Hitesh Kumar, Assistant Professor	Post Harvest Management	9466218467 Hitesh.3971@gmail.com	

Academic Programs:

	Programmes	Duration
UG	B.Sc. (Hons.) Horticulture	4 years
PG	➢ Silviculture & Agro- Forestry ➢ Fruit Science ➢ Vegetable Science ➢ Post Harvest Management ➢ Floriculture & Landscaping	2 years
Ph.D.	❖ Silviculture & Agro-Forestry ❖ Fruit Science ❖ Vegetable Science	3 Years

Courses Offered at UG level in I Semester

Course No.	Title	Credit
	B.Sc. (Hons.) Horticulture I Year	
STAT-111(H)	Elementary Statistics and Computer Application	3(2+1)
SS-111(H)	Fundamentals of Soil Science	2(1+1)
AE-111(H)	Economics and Marketing	3(2+1)
BIOCHEM-111(H)	Elementary Plant Biochemistry	2(1+1)
CP-111(H)	Introductory Crop Physiology	2(1+1)
FS-111 (H)	Fundamentals of Horticulture	3(2+1)
FLS-111(H)	Principles of Landscape Architecture	1(0+1)
GPB-111(H)	Principles of Genetics and Cytogenetics	3(2+1)
MICROB-111(H)	Introductory Microbiology	2(1+1)
ENG-111(H)	Communication Skills and Personality Development	2(1+1)
PE-111(H)	NSS/NCC/Physical Education	1(0+1)
	Total	**24(13+11)**
	B.Sc. (Hons.) Horticulture II Year	
PP-211(H)	Fundamentals of Plant Pathology	3(2+1)
ENT-211(H)	Fundamentals of Entomology	3(2+1)
VS-211(H)	Temperate Vegetables	2(1+1)
NEM-211(H)	Nematode pests of Horticultural crops and their Management	2(1+1)
PP-212(H)	Diseases of Fruit, Plantation, Medicinal and Aromatic Crops	3(2+1)
BIOCHEM / FT-211 (H)	Fundamentals of Food Technology	2(1+1)

FS-211(H)	Temperate Fruit Crops	2(1+1)
AGRON-211(H)	Weed Management in Horticultural Crops	2(1+1)
FLS-211(H)	Commercial Floriculture	3(2+1)
BIOTECH-211(H)	Elementary Plant Biotechnology	2(1+1)
	Total	**24 (14+10)**
	B.Sc. (Hons.) Horticulture III Year	
AGRON-311 (H)	Organic Farming	3 (2+1)
AGRON-312 (H)	Introduction to Major Field Crops	2 (1+1)
MAP-311 (H)	Medicinal and Aromatic crops	3 (2+1)
AF-311 (H)	Introductory Agroforestry	2 (1+1)
VS-311 (H)	Breeding of Vegetable, Tuber and Spice Crops	3 (2+1)
PP-311 (H)	Diseases of Vegetables, Ornamentals and Spice Crops	3 (2+1)
FS-311 (H)	Orchard and Estate Management	2(1+1)
AGM-311 (H)	Agro-meteorology and Climate Change	2 (1+1)
VS-312 (H)	Potato and tuber crops	2 (1+1)
	Total	**22 (13+9)**
B.Sc. (Hons.) Horticulture IV Year **Student Ready: Experiential Learning Program (ELP)**		
ELP-411(H)	Commercial Horticulture	10 (+10)
ELP-412(H)	Processing of Fruits and Vegetables for Value Addition	10 (0+10)
	Total	**20 (0+20)**

Courses Offered at UG level in II Semester

Course No.	Title	Credit
	B.Sc. (Hons.) Horticulture I Year	
FS-121(H)	Tropical and Subtropical Fruits	3(2+1)
VS-121(H)	Tropical and Subtropical Vegetables	3(2+1)
GPB-121(H)	Principles of Plant Breeding	3(2+1)
SS-121(H)	Soil Fertility and Nutrient Management	2(1+1)
AGRON-121(H)	Water Management in Horticulture Crops	2(1+1)
FS-122(H)	Plant Propagation and Nursery Management	2(1+1)
FEE-121(H)	Environmental Studies and Disaster Management	3(2+1)
CP-121(H)	Growth and Development of Horticultural Crops	2(1+1)
PE-121(H)	Physical and Health Education	1(0+1) (NC)*
STAT-121(H)	Information and Communication Technology	2(1+1) (NC)*
	Total	**23(13+10)**

	B.Sc. (Hons.) Horticulture II Year	
Course No.	**Title**	**Credit**
SS-221 (H)	Soil, Water and Plant Analysis	2(1+1)
VS-221 (H)	Spices and Condiments	3(2+1)
FLS-221 (H)	Ornamental Horticulture	3(2+1)
FS-221 (H)	Plantation Crops	3(2+1)
FS-222 (H)	Breeding of Fruit and Plantation Crops	3(2+1)
AENG-221 (H)	Farm Power and Machinery	2(1+1)
ENT-221 (H)	Insect Pests of Fruit, Plantation, Medicinal & Aromatic Crops	3(2+1)
VS-222 (H)	Precision Farming and Protected Cultivation	3(2+1)
FS-223 (H)	Dry land Horticulture	2(1+1)
	Total	**24(15+9)**
	B.Sc. (Hons.) Horticulture III Year	
ENT-321 (H)	Apiculture, Sericulture and Lac culture	2(1+1)
ENT-322 (H)	Insect Pests of Vegetable, Ornamental and Spice Crops	3(2+1)
PHT-321 (H)	Postharvest Management of Horticultural Crops	3(2+1)
VS-321 (H)	Seed Production of Vegetable, Tuber and Spice Crops	3(2+1)
FLS-321 (H)	Breeding and Seed Production of Flower and Ornamental Crops	3(2+1)
PHT-322 (H)	Processing of Horticultural Crops	3(1+2)
AE-321 (H)	Horti-Business Management	2(2+0)
AE-322 (H)	Entrepreneurship Development and Business Management	2(1+1)
EXT-321 (H)	Fundamentals of Extension Education	2 (1+1)
	Total	**23(14+9)**
B.Sc. (Hons.) Horticulture IV Year **Student Ready: Experiential Learning Program (ELP)**		
RHWE-421(H)	STUDENT READY - Placement in Industries	10(0+10)
RHWE-422(H)	STUDENT READY- Placement in Villages	10(0+10)
	Total	**20(0+20)**

Courses Offered at PG level in I Semester

Course No.	**Title**	**Credit**
	M. Sc. (Horticulture) Fruit Science	
FSC 511(N)	Tropical Fruit Production	3(2+1)
FSC 512(N)	Propagation and Nursery Management of Fruit Crops	3(2+1)
FSC 513(N)	Systematics of Fruit Crops	3(2+1)
FSC 514(N)	Climate Change and Fruit Crops	1(1+0)
FSC 515(N)	Biotechnology of Fruit Crops	3(2+1)
FSC 516(N)	Export Oriented Fruit Production	3(2+1)
FSC 517(N)	Canopy Management in Fruit Crops	2(1+1)
FSC-599(N)	Research	Variable
	Total	**18(12+6)**

Ph. D. Horticulture (For Old students)		
HORT-691	Doctoral Seminar-I	1(0+1)
HORT-691	Doctoral Seminar-II	1(0+1)
HORT-700	Ph.D. Research	Variable
	Total	**2(0+2)**
Ph. D. (Horticulture) Fruit Science (18th BSMA) For 2021-22 Batch		
FSC-613	Biotic and Abiotic Stress Management in Horticultural Crops	3(2+1)
FSC-691	Doctoral Seminar-I	1(0+1)
FSC-699	Doctoral Research	Variable
	Total	**4(2+2)**
	Ph. D. Horticulture (Fruit Science) Courses	
FSC-611(N)	Innovative Approaches in Fruit Breeding	3(3+0)
FSC 612(N)	Modern Trends in Fruit Production	3(3+0)
FSC 613(N)	Abiotic Stress Management in Fruit Crops	3(2+1)
FSC 614(N)	Biodiversity and Conservation of Fruit Crops	3(2+1)
FSC-691 (N)	Doctoral Seminar-I	1(0+1)
FSC-699 (N)	Research	Variable
	Total	**13(10+3)**
M.Sc. (Horticulture) Floriculture & Landscaping For 2022-23 Batch		
FLS-511	Systematics of Ornamental Plants	3(2+1)
FLS-512	Commercial Production of Cut Flowers	3(2+1)
FLS-513	Commercial Production of Loose Flowers	3(2+1)
FLS-516	Turf Grass Management	3(2+1)
FLS-599	Master's Research	Variables
	Total	**12(8+4)**
M.Sc. (Horticulture) Post Harvest Management		
PHM-511	Postharvest Management of Horticultural Produce	3(2+1)
PHM-512	Principles and Methods of Fruit and Vegetable Preservation	3(2+1)
PHM-513	Processing of Horticultural Produce	4(2+2)
PHM-514	Laboratory Techniques in Post- Harvest Management	3(2+1)
PHM-515	Packaging and Storage of Fresh Horticultural Produce	2(1+1)
PHM-516	Packaging and Storage of Processed Horticultural Produce	2(1+1)
PHM-599	Master's Research	Variable
	Total	**17(10+7)**
M. Sc. (Horticulture) Vegetable Science (19th BSMA) For-2022-23 Batch		
VSC 511N	Production of Warm Season Vegetable Crops	3(2+1)
VSC 512N	Principles of Vegetable Breeding	3(3+0)
VSC 513N	Systematics of Vegetable Crops	2(1+1)
VSC 514N	Processing of Vegetable	2(1+1)
VSC 515N	Organic Vegetable Production	2(1+1)
VSC 516N	Breeding of Self-Pollinated Vegetable Crops	3(2+1)
VSC 517N	Protected Cultivation of Vegetable Crops	2(1+1)
VSC 591N	Master's Seminar	1(0+1)

VSC 599N	Master's Research	Variable
	Total	**18(11+7)**
Ph. D. Vegetable Science (For Old students)		
VS-700	Ph.D. Research	Variable
Ph. D. (Horticulture) Vegetable Science (18th BSMA) For 2020-21 & 2021-22 Batch		
VSC-611	Advance in Vegetable Production	3(2+1)
VSC-612	Advance in Breeding of Vegetable Crops	3(2+1)
VSC-613	Seed Certification, Processing and Storage of Vegetable Crops	2(1+1)
VSC-691	Doctoral Seminar-I	1(0+1)
VSC-699	Doctoral Research	Variable
	Total	**9(5+4)**
Ph. D. (Horticulture) Vegetable Science (19th BSMA) For 2022-23 Batch		
VSC611N	RecentTrendsinVegetableProduction	3(3+0)
VSC612N	AdvancesinBreedingofVegetableCrops	3(3+0)
VSC613N	SeedCertification, Processing and Storage of Vegetable Crops	3(2+1)
VSC614N	Biodiversity and Conservation of Vegetable Crops	3(2+1)
VSC691N	SeminarI	1(0+1)
VSC699N	Research	Variable
	Total	**13(10+3)**
M. Sc. Forestry (Silviculture and Agroforestry)		
SAF 511 N	Silviculture	3(2+1)
SAF 512 N	Forest Biometry	2(1+1)
SAF 613 N	Silviculture Practices	2(1+1)
SAF 514 N	Agroforestry Systems	3(2+1)
SAF 517 N	Industrial Agroforestry	2(1+1)
SAF 591 N	M.Sc. Seminar	Variable
SAF-599 N	M.Sc. Research	Variable
SAF-599	M.Sc. Research	Variable
	Total	**12(7+5)**
Ph. D. Forestry (Silviculture and Agroforestry)		
SAF 610 (N)	Research Methodology in Forestry	3(2+1)
SAF 611 (N)	Quantitative Silviculture	3(2+1)
SAF 613 (N)	Productivity Evaluation Agroforestry Systems	3(2+1)
SAF 691	Seminar	1(0+1)
SAF 699 (N)	Ph. D. Research	Variable
SAF 699	Ph.D. Research	Variable
	Total	**10(6+4)**
Non-Credit Compulsory Courses for Master Degree and Deficiency Courses for Ph. D.		
PGS-511 (N)	Library and Information Services	1(0+1) NC
PGS-512(N)	Basic Concepts in Laboratory Techniques	1(0+1) NC
PGS -513 (N) (e-Course)	Agricultural Research, Research Ethics and Rural Development Programmes	1(1+0) NC

Courses Offered at PG level in II Semester

Course No.	Title	Credit
P.G. Courses for M.Sc. (Horticulture) Fruit Science		
FSC521(N)	Sub-Tropical and Temperate Fruit Production	3(2+1)
FSC522(N)	Breeding of Fruit Crops	3(2+1)
FSC523(N)	Growth and Development of Fruit Crops	3(2+1)
FSC524(N)	Minor Fruit Production	3(2+1)
FSC525(N)	Nutrition of Fruit Crops	3(2+1)
FSC526(N)	Organic Fruit Culture	3(2+1)
FSC-599 (N)	Masters Research	Variable
	Total	**18(12+6)**
Ph.D. (Horticulture) Fruit Science		
FSC-621 (N)	Recent Developments in Growth Regulation	3(3+0)
FSC 622 (N)	Advanced Laboratory Techniques	3(1+2)
FSC 623 (N)	Arid and Dry Land Fruit Production	2(2+0)
FSC 624 (N)	Smart Fruit Production	2(2+0)
FSC 699 (N)	Research	Variable
	Total	**13(10+3)**
M.Sc. (Horticulture) Floriculture & Landscaping		
FLS-521	Breeding of Ornamental Plants	3(2+1)
FLS-522	Ornamental Gardening and Landscaping	3(2+1)
FLS-525	Seed Production in Flower Crops	2(1+1)
FSC-599	Master's Research	Variable
	Total	**8(5+3)**
M. Sc. (Horticulture) Post Harvest Management A		
PHM – 521	Post harvest physiology and biochemistry of the perishables	3(2+1)
PHM - 522	Quality assurance, safety and sensory evaluation of fresh and processed horticultural produce	3(2+1)
PHM - 523	Functional foods from horticultural produce	2(2+0)
PHM - 524	Marketing and entrepreneurship in post harvest horticulture	2(1+1)
PHM-599	Master's Research	Variable
	Total	**10(7+3)**
M. Sc. (Horticulture) Vegetable Science		
VSC 511N	Production of Warm Season Vegetable Crops	3(2+1)
VSC 512N	Principles of Vegetable Breeding	3(3+0)
VSC 513N	Systematics of Vegetable Crops	2(1+1)
VSC 514N	Processing of Vegetable	2(1+1)
VSC 515N	Organic Vegetable Production	2(1+1)
VSC 516N	Breeding of Self-Pollinated Vegetable Crops	3(2+1)
	Total	**15(10+5)**
Ph. D. (Vegetable Science)		
VS-624	Post harvest Technology of Vegetables	3(2+1)
VS-700	Ph. D. Research	Variable
	Total	**3(2+1)**
Ph. D. (Horticulture) Vegetable Science		
VSC 611N	Recent Trends in Vegetable Production	3(3+0)

VSC 612N	Advances in Breeding of Vegetable Crops	3(3+0)
VSC 613N	Seed Certification, Processing and Storage of Vegetable Crops	3(2+1)
VSC 614N	Biodiversity and Conservation of Vegetable Crops	3(2+1)
VSC 691N	Seminar I	1(0+1)
VSC 699N	Research	Variable
	Total	**13(10+3)**
M.Sc. (Forestry) Silviculture and Agroforestry		
SAF 511 N	Silviculture	3(2+1)
SAF 512 N	Forest Biometry	2(1+1)
SAF 613 N	Silviculture Practices	2(1+1)
SAF 514 N	Agroforestry Systems	3(2+1)
SAF 517 N	Industrial Agroforestry	2(1+1)
SAF 591 N	M.Sc. Seminar	Variable
SAF-599 N	M.Sc. Research	Variable
SAF-599	M.Sc. Research	Variable
	Total	**12(7+5)**
Ph. D. Agroforestry, as per 18th BSMA (2009) of ICAR 2rd year Students		
AF-621	Land Use Planning and Watershed Management	2(2+0)
SILVI 621	Forest Regeneration	2(1+1)
SAF-699	Ph. D. Research	Variable
	Total	**4(3+1)**
Ph. D. (Forestry) Silviculture and Agroforestry, as per 18th BSMA (2009) of ICAR 3rd year Students		
SAF 610 (N)	Research Methodology in Forestry	3(2+1)
SAF 611 (N)	Quantitative Silviculture	3(2+1)
SAF 613 (N)	Productivity Evaluation Agroforestry Systems	3(2+1)
SAF 691	Seminar	1(0+1)
SAF 699 (N)	Ph. D. Research	Variable
SAF 699	Ph.D. Research	Variable
	Total	**10(6+4)**

Department of Fruit Science:

Research Achievements

- **Varieties Developed**

➢ Aonla (8) NA-4, NA-5, NA-6, NA-7, NA-10 and NA-20, NA-25, NA-26

➢ Bael (7) NB-4, NB-5, NB-7, NB-9, NB-16, and NB-17, NB-10

➢ Ber (2) Narendra Ber Selection-1 and 2

➢ Jack Fruit (4) NJ-1, NJ-3, NJ-14 and NJ-16

➢ Karonda (1) NK-1

- **Technology Developed**

1. Standardized pit filling mixture in sodic soils
2. Screened cultivars of ber, bael and aonla for sodic soils
3. Developed propagation technique in aonla, bael, ber and jackfruit
4. Screened rootstocks for ber
5. Standardized nutritional management for aonla, bael, ber and phalsa
6. Standardized pruning technique in ber guava and phalsa.
7. Standardized drip irrigation technique in aonla and guava
8. Developed fruit based cropping systems for sodic soils
9. Aonla + ber
10. Aonla + guava

- **Post harvest Technology**

1. Techniques developed for handling, storage and processing of aonla,bael and ber
2. Value added products developed from aonla, bael, ber karonda,jamun, monkey fruits and aloe vera.

New Released Variety of Aonla & Bael, AICRP, Arid Zone Fruits

Narendra Aonla-25

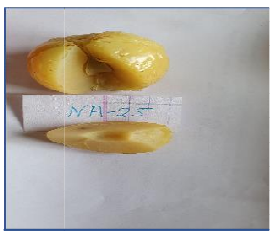
Description of Variety Tree habit: Spreading

Fruit Characters: Shape- Flattened, Av. Fruit weight (g) -75, No. of segment-6, colour-creamy yellow,

pulp (%)-97, pulp stone ratio-1:33.90, TSS (%)-12, Acidity (%)-1.02 Ascorbic acid (mg/100 g pulp)-525

IC-0613871

Name of Workers: Dr. Bhanu Pratap, Dr. H.K. Singh and N.L. Sharma



Narendra Aonla – 26

Description of Variety

Tree habit: Spreading

Fruit characters:

Shape- Flattened, Av. Fruit weight (g) -50, No. of segment-6, colour- greenish yellow, pulp (%)-96, pulp stone ratio-1:24, TSS (%)-16 Acidity (%)-1.79 Ascorbic acid (mg/100 gpulp)-535 IC-0613872

Name of Workers: Dr. Bhanu Pratap, Dr. H.K. Singh and N.L. Sharma

Narendra Bael-10

Description of Variety

Fruit shape-elliptical, Average of 5 years (2016-2020) yield/plant weight 1.87 kg, fruit size 26.51 cm x 25.02 cm, shell thickness 2.49 mm, total number of seed 135.70, locules in cross section 11-12, vitamin C 21.81 mg / recorded.TSS pulp 30. 89^0B acidity (0.40%) and100 g pulp, pulp colour-Pale yellow, pulp test-sweet were record

IC-0613864

Name of Workers: Dr. Bhanu Pratap, Dr. H.K. Singh and N.L. Sharma

AONLA

On the basis of pooled over 5 years data of aonla germplasm, the maximum yield was recorded in genotype NA-26 (86.67 q/ha) followed by NA-25 (54.17 q/ha) and NA- 27 (38.45 q/ha) along with better quality parameters. Hence it may be concluded that all 3 genotypes recommended for commercial cultivation.

BAEL

Twelve germplasm (ND/AH-8, ND/AH-9, ND/AH-10, ND/AH-11, ND/AH-12,ND/AH-16, ND/AH-17, ND/AH-21, ND/AH-22, ND/AH-25, ND/AH-26, ND/AH-27) of bael were evaluated. On the basis of pooled over 5 years data, the maximum yield was recorded in genotype ND/AH-10 (212.85 q/ha) followed by ND/AH-17 (211.38 q/ha), ND/AH-16 (203.53 q/ha) and ND/AH-8 (148.57 q/ha) along with better quality parameters. Hence it may be concluded that all 4 genotypes recommended for commercial cultivation.

EPIDEMIOLOGICAL STUDIES ON AONLA RUST:

On the basis of 16 years epidemiological studies of aonla rust, it has been observed that aonla rust occurs in eastern UP from 3 September to December when temperature range between 26.41 to 33.0^{o}C and humidity 70.0 to 87.0% with sunshine 5.94 hrs/day found favourable for thr initiation of the disease. The incremental disease in the incidence of the rust showed linear pattern from September to January of each year with its peak in the month of December.

Promising genotypes in pipeline

Aonla: NA-27, NA-29, NA-31, NA-32, NA-33 and NA-34

Bael: ND/AH-8, ND/AH-9, ND/AH-10, ND/AH-11, ND/AH-12, ND/AH-16, ND/AH-17, ND/AH-21, ND/AH-22, ND/AH-25, ND/AH-26, ND/AH-27 and NB-19,NB-21, NB-22 and NB-23.

BER: Narendra Ber Selection-9, Narendra Ber Selection-10, Narendra Ber Selection-11, Narendra Ber Selection-12, Narendra Ber Selection-13, Narendra Ber Selection-14,Narendra Ber Selection-15 and Narendra Ber Selection-16.

Jamun: CISH-J-37, CISH-J-42, and Narendra Jamun-6. Narendra Jamun-7, Narendra Jamun-8 and Narendra Jamun-9.

Introduction of improved cultivars / high density plantation:

Introduced following Fruit crops with high density plantation at MES Horticulture

.

S.N.	Name of fruit crop	Variety	Area/Number	Type of plantation
1.	Guava	L 49	0.3 acre	High density
2.	Mango	Pusa Arunima Pusa Surya PusaLalima Pusa Pitamber PusaShreshtha PusaPratibha	20 scions shoot of each cultivar were collected from the IARI, Pusa, New Delhi and propagated on seedling root-stock of mango	Developed plants will be maintained in germplasm block of mango for teaching and research purposes
3.	Bael	CISH-Bael, Goma Kirti, Goma Yashi, Thar Divya	 06 06	Varietal
4	Dragon Fruit	Red pulp	100 plants	Teaching and research purposes

Department of Vegetable Science:

Bottle Guard -Narendra Kamna (NDBG-16)

Characteristics:
Season-*Zaid* and *Kharif*
Recommended for Zone- Zone I (J&K and Uttarkhand) and VIII (Karnataka, TN and Kerala)
Features- Long fruit shape
Average Yield-270.83
Potential Yield-542.2 q/ha
Breeder- Dr. Gulab Chand Yadav

b. Recommendation-

On the basis of 5 year result it has been concluded that planting of Potato at optimum date (25th Oct to 5th Nov.) harvested at 90 days and transplanting onion thereafter is recommended for Potato-Onion cropping sequence for Eastern U.P.

Department of Post Harvest Technology:

- Technology developed for handling, storage and processing of aonla, bael and ber.
- Value added products developed from aonla, bael, ber, karonda, jamun, monkey fruits and aloe vera.
- Following processing technologies have been developed for preparation of different products
- Aonla herbal jam, foffee, osmo-dehydrated product, sauce, herbal syrup, shreds,pickle, laddu powder, diabetes powder, trifla powder, low calorie beverages, aonla+mango low calorie beverages technology.
- Bael- bael beverages, osmo-dehydrated product and powder preparation technology.
- Ber- Ber candy, powder and beverages preparation technology,
- Phalsa- Juice extraction and beverages preparation tehnology.
- Mango and guava candy preparation technology
- Blended beverages- Aonla + Mango, aonla + ginger +citrus and aonla + alovera.
- Packaging material for osmo-dehydrated products and developed technology for best utilization of waste syrub of candy.
- Post harvest package for amrapali mango has been developed for quality fruit and long shelf life.
- **Products in the market through processing industry**
- Aonla candy
- Bael candy
- Aonla supari
- Aonla shreds
- Beverages of guava, ginger, mango, bael and aonla

Department of Medicinal and Aromatic Plants:

Survey of diseases in medicinal and aromatic plants has been done at the N. D. University campus during 2020-2021. The major diseases were found leaf spot in Aloe vera, ritha, bahera, latgira and guruch., Virus disease was reported in Gurmar and Akarkara. Wilt disease was found in Bauchi and root rot in Kalmegh. The maximum disease intensity was recorded in soft rot of Aloe vera (40-45%) followed by leaf blight of Mulethi (35-40%) and leaf spot of Aloe vera (35-40%).

Leaf spot diseases management in Aloe vera.

The minimum PDI and plant mortality were recorded in the plants treated with Soil application of FYM (1.0 kg/m2) enriched with Trichoderma + Pseudomonas talc-based formulation each @ 2.0% at planting time, dip the suckers in Carbendazim 0.1% solution at the time of planting followed by the plants treated with Soil application of FYM (1.0 kg/m2) enriched with Trichoderma + Pseudomonas talc-based formulation each @ 2.0% at planting time. On the onset of disease symptoms three spray of Pseudomonas fluorecence @ 2.0% of talc-based formulation and Neem oil @ 300 ppm.

Downy mildew management in opium poppy

The minimum disease intensity and disease severity of downy mildew of opium poppy was recorded in Furrow application of FYM (500g/M^2) enriched with

Trichodermaharzianum + *Pseudomonas fluorescens* @2.0% 4-5 days prior to sowing. Seed treatments with streptocyclinesulphate @0.030% (300ppm) and Metalaxyl @ 2.5g/Kg. On appearance of disease symptoms spray of *Trichodermaharzianum*and *Pseudomonas fluorescens* @0.5%. Second and Third spray with Streptocyclinesulphate @0.030% and metalaxyl @ 0.25% at 15 days interval

Diseases Management in Basil (*Ocimumbasilicum*)

The maximum fresh and dry leaf weight was recorded from the plants treated with Soil application of FYM (1.0 kg/m2) enriched with Trichoderma + Pseudomonas talc-based formulation each @ 2.0% at planting time. On the onset of disease symptoms three sprayof Pseudomonas fluorescence @ 2.0% of talc-based formulation and Neem oil @ 300 ppm followed by the Soil application of FYM (1.0kg/m2) enriched with Trichoderma + Pseudomonas talc based formulation each @ 2.0% at planting time. On the onset of disease symptoms three spray of Tebuconazole +Trifloxystrobin @ 0.10% with 15 days interval.

Aloe vera

Among 25 germplasm screened against soft rot disease of Aloe vera varied significantly and the minimum PDI (percent disease intensity) was observed in IC-310611 (10.22) followed by IC- 285626 (10.56). However, the germplasm IC- 283610 revealed the highest PDI (48.33).

Kalmegh...Minimum percept disease intensity was observed in Soil treatment with *Pseudomonas flourescence* +Trichodermaviride @3.0g/m^2 with 20t FYM/ha + Neem Cake @2.0t/ha (28.00) followed by 20t FYM/ha + Neem Cake @2.0t/ha (31.33), Soil treatment with *Pseudomonas flourescence* @3.0g/m^2 with 20t FYM/ha + Neem Cake @2.0t/ha and Soil treatment with *Trichodermaviride*@3.0g/m^2 with 20t FYM/ha + NeemCake @2.0t/ha (34.66). Where as in control PDI was found (66.66).

Department of Medicinal and Aromatic Plants:

Opium poppy (*Papaver somniferum*) - NOP- 4 (Kirtiman)

Special features:

- Medium plant stature
- Mid in flowering and maturity
- Bold and slight oval capsule shape
- Moderately susceptible to downy mildew disease
- An average high latex and seed yield (45- 56.64 Kg/ha and 10-20 q/ha, respectively) and better morphine content

Opium poppy (*Papaver somniferum*) -NOP-1

Special features:

- Moderately resistant to downy mildew disease
- Better latex yield (54.16 kg/ha)

Opium poppy (*Papaver somniferum*) - Ghazipur Local

Special features:

- High morphine content
- Resistant to downy mildew disease
- Low yielding

Babchi (*Psoralea corilifolia*) -

IC-112226

Special feature:

- High psoralene content.

Lemon grass (*Cymbopogan flexuosus*) NLG-84

Special features:

- High oil yield
- High citrol content
- High herbage yield

Mandookparni (*Centella asiatica*) var. Vallabh Medha

Special features:

- Bigger in size in respect to all morphological characters
- Leaf area is more than 4.5 times higher than the local cultivar
- It has higher fresh and dry herbage yield
- Higher quantity of active

List of available germplasm of medicinal and aromatic plants

Sl. No.	Name of crop	Botanical Name	No. of accession
1.	Opium poppy	*Papaver somniferum*	35
2.	Lemon grass	*Cymbopogan flexuosus*	16
3.	Vetiver	*Vetiveria zizanoids*	12
4.	Aloe vera	*Aloe barbedensis*	25
5.	Babchi	*Psoralea corylifolia*	01
6.	Palmarosa	*Cymbopogan martinii*	01
7.	Kalmegh	*Andrographis paniculata*	20
8.	Sataver	*Asparagus racemosus*	24
9.	Ashwagandha	*Withania somniferum*	07
10.	Mandookparni	*Centella asiatica*	01
11.	Isabgole	*Plantago ovata*	30
12.	Sweet Basil	*Ocimum basilicum*	02
13.	Tulsi	*Ocimum sanctum*	03

1.	**Opium Pappy (*Papaver somniferum*)** is very high valued crop grown in U.P., Rajasthan, M.P. Main chemical constituent is morphine etc. It is used as pain killer, anesthecia etc. **Result:** The maximum mean latex yield (24.37 kg/ha) obtained with 75% N through Vermicompost + 25% N followed by 75% N through FYM + 25 % N on the basis of 2 years data in 2006.
2.	**Kalmegh** (***Andrographis paniculata***) in a high valued crop for U.P. & other states in terms of monetary gain, nutritional & health benefits. Main chemical constituents of Kalmegh are Andrographloid It is used in fever, jaundice etc. The best results obtained i.e the maximum fresh average herbage yield (173.86 q/ha) and dry yield (67.60 q/ha) have been obtained due to application of 7.5-ton FYM on the basis of 3 years mean data concluded in 2006-07. Application of pressmud @ 10 t/ha performed better herbage yield in 2008-09. **Impact: -** The farmers can increase their income (40.00-50.00 /ha) from Kalmegh cultivation in4-5 months crop duration, needs to be popularize more in future.
3.	**Safed Musali** (***chlorophytum borivilianum***) is a high valued crop for U.P., Madhya Pradesh and other states in terms of high monetary gain, nutritional & health benefits. The main chemical constituent is saponin etc. It is used in enhancing vitality etc. **Significant findings** The experiment was concluded in 2006-07 on the basis of 3 years' experimentations. Variety MCB 405 and closerspacing (30 × 10 cm) showed significantly higher fresh & dry rood yield. **Impact:** Farmers obtained very high return of monetary value i.e., nearly 2.0-2.5 lakhs/ ha along with nutritional & medicinal value. Hence, farmers are adopting this crop very well in U.P. M.P. and other states.
4.	**Ashwagandha (*Withnia somnifera*)** is another high valued crop grown in U.P. M.P. Rajasthan etc. The main chemical constituent withanin etc. It is used as enhancing vitality ie energy enhancear, relieved joints pain etc. **Significant results-** 1. The experiment was concluded in 2006-07 on the basis of 3 years experimentation. 2. The variety JA- 20 was found best to harvest maximum fresh (9.29 q/ha) average yield and dry root yield (4.38 q/ha). 3. Application of 8 kg/ ha seed rate was adjudged as optimum dose of seed rate showed maximum fresh average yield (10.02 q/ha) & dry root yield (4.69 q/ha) among four seed rates. 4. The maximum fresh root yield (14.54 q/ha) and dry root yield (5.08 q/ha) was obtained with applications of higher dose of presumed i.e 10 ton/ha followed by FYM 10 ton/ ha (fresh 13.24 q/ha & dry 4.63 q/ha) during 2008-09. In another fertilizer trial. **Impact:** farmers are getting high economic value from cultivation of this crop along with nutritional & medicinal benefits.

5.	**Matricaria (*Matricaria chamomilla*)** is a high valued aromatic crop (oil content) in U.P. M.P. Uttaranchal etc. **Significant findings-** Significantly higher fresh flower yield (38.6 q/ha) and dry flower yield (8.65 q/ha) have been achieved due to application of 10 ton/ha pressured followed by FYM 15 t/ha (fresh 37.86 & dry flower yield 8.6 q/ha) during the year 2007-08. **Impact:** Farmers are getting high economic returns from cultivation of matricaria through extraction of higher oil yield / ha along with, nutritional & medicinal benefits.
All India Coordinated Project on Medicinal and Aromatic Plants:	
1.	**Effect of FYM & harvesting time on herbage yield of Kalmegh** **FYM dose:** The maximum average fresh herbage and dry herbage yield (173.86 q/ha and 67.60 q/ha) have been obtained due to application of higher level of FYM (7.5 tonnes/ha), respectively on the basis of 3 year's mean data. **Harvesting time:** Harvesting of Kalmegh should be done at 150 DAS to harvest maximum average fresh as well as dry herbage yield (167.50 q/ha and 60.92 q/ha), respectively from 3 years's mean data.
2.	**Effect of different organics on herbage yield of Kalmegh** Application of organic sources particularly pressmud 10 tonnes/ha performed significantly better fresh herbage yield (144.03 q/ha and dry herbage yield (44.55 q/ha) as compared to other organic sources during 2007-08.
3.	**Effect of variety and spacing on root yield of *Chlorophytum borivilianum*** The experiments were carried out to find out to suitable variety with optimum spacing during 2004-05-,2005-06 and 2006-07, which designed in factorial RBD with 2 varieties (MCB 405 and MCB 412) and 3 spacing levels (10,15 and 20 cm). The trials were sown on 02-07-2004, 31-05-2005 and 5.7.06 the data been recorded in following parameters.
4.	**Effect of variety and seed rate on root yield of Ashwagandha** **Suitable variety:** The variety JA-20 was found best to harvest maximum average fresh and dry yield (9.29 q/ha and 4.38 q/ha), respectively from 3 years's mean performance. **Seed rate:** Application of 8 kg/ha seed rate was adjudged best to harvest maximum average fresh and dry root yield (10.02 and 4.69 q/ha) respectively from 3 years's mean data.
5.	**Effect of various organic fertilizers on flower yield of matricaria** Maximum plant height (46.08 cm) and no. of primary branches (18.65) have been obtained with the application of pressmud 15 t/ha. Minimum days taken to bud initiation (49.31) due to control followed by FYM 5 t/ha (49.89). Significantly higher fresh flower yield (38.6 q/ha) and dry flower yield (8.65 q/ha) have been achieved due to application of mid dose of pressmud (10 t/ha). The next best treatment was found FYM 15 t/ha (37.86 q/ha and 8.61q/ha fresh and dry yield respectively). The above data recorded during 2007-08.

6.	**Effect of FYM and spacing on seed yield of Chandrasur** Maximum plant height (121.63 and 113.07 cm) has been measured due to application of FYM 20 t/ha and under 30 x 10 cm spacing level, respectively and same FYM level (20 t/ha) showed higher no. of branches (25.10) and 30 x 15 cm spacing (24.94). Minimum days taken to bud initiation (89.33) was recorded in control. Higher test weight (162.33 mg) was weighed under FYM 20 t/ha level which was at par with 30 x 20 cm spacing level (163.67 mg). Maximum seed yield (14.38 and 13.22 q/ha) has been obtained due to higher level of FYM (20 t/ha) and lower level of spacing (30 x 10 cm) respectively, which were significantly superior over other respective treatments. Wider spacing level proved to be supra-optimal in terms of increasing seed yield of chandrasur.

Department of Floriculture and Landscaping:

- 17 Gladiolus varieties were evaluated for sodic soil conditions.
- 15 Chrysanthemum varieties were evaluated for sodic soil conditions.
- 15 marigold genotypes were evaluated under Eastern U.P. condition.
- Techniques developed for prolonging vase life of Tuberose, Gladiolus,Chrysanthemum and marigold.
- Agro Techniques developed for all round the year production of marigold flower
- Propagation technique developed for Bougainvillea and croton.
- Agro technique developed for African marigold. Pinching 20 DAT with CCC 500ppm gave maximum growth and flower yield.
- PSB+N+50%P+K+FYM gave maximum yield and spike length in Tuberose.
- Azospirallum +50%N+P+K gave maximum plant heigh and spike yield per ha. InGladiolus. 0

Department of Silvi-culture and Agro-Forestry:

- As per **organic fertilizers-based experimentation**, the maximum grain yield of **paddy var. Sarjoo-52** (1.94 t ha^{-1}) has been obtained with the application of **FYM 10 t ha^{-1}** and the higher grain yield of **wheat var. Kundan** (1.91 t ha^{-1}) was recorded by the application of same treatments *i.e.,* 10 t ha^{-1} FYM under***Dalbergiasissoo*based agri-silviculture system.**
- Significantly higher**turmeric** rhizome yield (5.83 t $ha^{-1}yr^{-1}$) has been obtained due to application of 50% recommended dose of NPK (120:80:80 kg ha^{-1}) + 50% FYM dose (recommended dose 20 t ha^{-1}) as compared to other treatments under **agri-silvi-horti system**.
- In the *Dalbergia*sissoo based **silvi-pastoral system**, the maximum annual green

fodder yield was found for *Pennisetum purpureum* (43.24 ha^{-1}), followed by *Panicum maximum* (31.12 t ha^{-1}) and *Brachiaramutica* (29.06 ha^{-1}).

- Clone PS-52of shisham has been found best under eastern UP condition. This clone has better plant height, collar diameter, number of branches and crown spread.
- Under *Eucalyptus* based agroforestry system for Indo-gangetic plains, Moong-Wheat crop rotation was found better in respect of more grain yield as well as more plant height and collar diameter of Eucalyptus.

Job Opportunities in Different Fields of horticulture

1. Scientist in ICAR systems
2. Lecturer in Govt./Private Colleges
3. Guest faculty in College/University
4. SRF in AICRP research project
5. Principal /lecturer in School
6. Entrepreneur in horticulture field
7. Technical Assistant and horticultural Inspector in state Government/ centralGovernment
8. Land scape officer and floriculturist in hotels
9. In organizations like WHO, UNICEF, FAO, NABARD Ministry of Agricultureand Horticulture
10. Landscape designer, Interior Designer and Decorator
11. Tour Manager for different gardens of India
12. Hostel Superintendent
13. CAD Professionals
14. Horticultural consultant
15. Journalist & Editor in horticultural in filed
16. Advertisement and Extension of horticulture Designer
17. Horticulture Marketing Manager
18. Consultant in orchard development.
19. Establishment of documentary/educational Youtuber unit as an enterpr

Photo Gallery College of Horticulture and forestry

Kishan Gosthi organized by MIDH

Distribution of Aonla plants

Hon'ble Chief Minister visited Kishan Mela at ANDUAT, Kumarganj, Ayodhya

ANDUAT, Kumarganj, Ayodhya

Farmers visited MES Horticulture

Students doing practical at MES

Class room of College of Horticulture

I[st] years Students of college of Horticulture

Plantation by Hon'ble Governor on the occasion of convocation

Visit of Hon'ble Minister Agriculture on MES Horticulture

Visit of Hon'ble Minister Agriculture on MES Horticulture

Welcome to Hon'ble Vice- Chancellor by Dean, CHF Dr. O.P. Rao

DISTRIBUTION OF WHEAT BREEDER SEED & PVC IRRIGATION PIPE

Ginger as a inter crop in kinnow orchard

Extension works

College of Horticulture Stall in State Level Exhibition at Governor House

Germplasm in coriander

IET in Fennel

CVT on Fenugreek

Interaction with farmers at MES

Visit of potato experiment by Monitoring team(AICRP-Potato)

Visiting of Potato Verities by Hon'ble Vice Chancellor, Dean (COH&F)and Accreditation team members at MES Vegetable Farm

A View of Turmeric Plantation

Plantation by the Hon’ble Vice-Chancellor

Activities of College of Horticulture

Developed residential play ground by department of Landscaping

Photo gallary of Horticulture & Forestry


उद्यान एवं वानिकी महाविद्यालय
जिला स्तरीय सेमिनार
दिनांक- 11-12 अगस्त 2021

कृषि वानिकी विभाग

आचार्य नरेंद्र देव कृषि एवं प्रौद्योगिकी विश्वविद्यालय

कुमार गंज, अयोध्या उत्तर प्रदेश

के सौजन्य से ग्राम पंचायत मीननगर के

अनुसूचित जाति के किसानों को

दो दिवसीय पौधों का नि:शुल्क वितरण कार्यक्रम

दिनांक :- 16-08-2021 से 17-08-2021

आज सफलतापूर्वक सम्पन्न हो गया है।

सादर धन्यवाद!

जय जवान, जय किसान!

रीता देवी

ग्राम प्रधान

Mahua Fruits

Mahua

Jatropha

ALL INDIA CO-ORDINATED RESEARCH PROJECT ON SPICES

All India Co-ordinated Research Project on Spices of the University came in to the existence during VIII plan in the year 1996. The centre has developed 11 varieties of the different spices crop. In which 5 varieties of turmeric namely, Narendra Haldi-1, Narendra Haldi-2, Narendra Haldi-3, Narendra Haldi-98 and Narendra Saryu (NDH-8). In Coriander two varieties- Narendra Dhania-1 and Narendra dhania-2. In fenugreek 3 varieties namely, Narendra Methi -1, Narendra Methi-2 and Narendra Richa, and one Variety of Sauf-Narender Saunf-1 . In spite of these achievements the cent also developed many **All India Coordinated Research Project on Spices of Acharya Narendra Deva University of Agriculture and Technology Kumarganj**, also awarded as **"BEST AICRP CENTRE AWARD 2018-19"** for the spices research workshop of ICAR-All India Coordinated Research Project on Spices held at Tamil Nadu agriculture University, Coimbatore from 13 Nov. to 16 Nov 2019.

RECEIVING BEST AICRPS CENTRE AWARD 2018-19" DURING XXX WORKSHOP OF ICAR-AICRP ON SPICES AT TNAU, COIMBATORE FROM 14 NOV. 2019 TO 16 NOV. 2019.

SPICES EXHIBITION STALL DURING XXX WORKSHOP

SPICES EXHIBITION STALL DURING

SPICES EXHIBITION STALL DURING

RECEIVING BEST AICRPS CENTRE AWARD 2018-19" DURING XXX WORKSHOP OF ICAR-AICRP ON SPICES AT TNAU, COIMBATORE FROM 14NOV. 2019 TO 16 NOV. 2019.

Best AICRP Centre Award

Monitoring team visit

Termeric Trial

Monitoring team visit

Monitoring team visit

Termeric Trial

Experimental Trials Photographs

भ्रम कृषि विश्वविद्यालय को मिला राष्ट्रीय सम्मान

वैज्ञानिक डा. विक्रमा पाण्डेय व उनकी टीम के अथक परिश्रम का रहा परिणाम

Hon'ble Vice-Chancellor along with Dean Horticulture & Forestry and HOD

SANJAY PATHAK (Ph. D.)		
Designation	Dean, College of Horticulture and Forestry	
University	NDUAT, Kumarganj Faizabad	
Contact Details	9415720124,sanjay.pathakhort@gmail.com	

ACADEMIC PROFILE		
1	**Ph D (Horticulture) - 1988 [NDUAT, Kumarganj, Faizabad]**	Thesis title: Post harvest technology of aonla (*Emblica officinalis* Gaertn) fruits
2	**M.Sc(Ag)-1985[NDUAT, Kumarganj, Faizabad]**	Thesis title: Studies on propagation techniques of custard apple (Annona squamosal L.)

Experience

- Professor and Head Department of Fruit Science (Horticulture) ANDUAT, Ayodhya
- Coordinator, College of Horticulture & Forestry, ANDUAT, Ayodhya.
- Professor and Head Department of Post-Harvest Technology (Horticulture) ANDUAT, Ayodhya.
- Associate Professor Horticulture NDUAT, Ayodhya.
- Manager (Horticulture) UP Bhumi Sudhar Nigam, Lucknow. (On deputation).
- SMS/Assistant Professor (Horticulture) ANDUAT, Ayodhya.
- Assisstant Scientist (Horticulture) Dr. YS Parmar UHF, Nauni. Solan, HP April 1989-May, 1992,

Subject Taught

Processing of Horticultural crops,Post Harvest management of horticulture cropsPostharvest handling and storage of horticultural crops,Temperate fruits,Postharvest management and value addition of fruits and vegetables,Principles of Post Harvest Management of Perishable Horticultural Produces,Post Harvest Handling of Vegetables,Post harvest management of fresh horticulture produces,Fruits and vegetable processing technology,Breeding of fruit and vegetable crops,Advances in processing technology of fruit crops,Post harvest management and value addition of fruit and vegetables,Principles of Post Harvest Management of Perishable Horticultural,Post Harvest Technology of Vegetables,Research methods in fruit production

(UG/PG/PhD Students)

Research Projects

Running: 3

Externally funded, completed:4 Submitted :1	
Publications	
Books: 07Technical bulletins :13	
Research Publications:>60	Chapter in Books: 08
Popular Articles: >75	Abstract published:>125
STUDENTS GUIDANCE (Ph.D.)	
Ph.D. Thesis Supervised: 17 Ph.D. Thesis under supervision: 04	M.Sc. (Ag,) students supervised: 42 M.Sc. (Ag.) students under supervision: 6
Awards/Recognitions	
Lifetime achievement award by Alumni Association of NDUAT- Faizabad Best Performance Award in First UP Agriculture Science Congress held at NDUAT Faizabad Eminent Scientist Award on World Environment Day by Dr Ram Awatar Shikhsa Samiti at BBAU, Lucknow	
Invited Key Speaker at National meeting/conference/Refresher course	
• Directorate of Marketing and Inspection • Agriculture and Cooperative Department Lucknow • State Agriculture Management Institute, Rehmankhera, Lucknow • Centre of Technology and Entrepreneurship Development, Amethi • CISH, Lucknow • BBAU, Lucknow • Integral University, Lucknow • Dr. Rammanohar Lohia Avadh University, Ayodhya	
Member of Professional and Academic Journals/ Magazines	
Progressive HorticultureIndian Journal of Horticulture Indian HorticultureBeverage and Food World	
Participation in orientation programmes	
• Attended training on orientation training of core team for strategic research and extension plan (SERP) from 27 to 31 August 2001, at NDUAT, Kumarganj, Faizabad • Attended **Summer School** on Recent Advances in Production, Protection and Post harvest management of Subtropical Horticulture, Lucknow from 3rd June to 23rd June, 2002 at CISH, Lucknow	
Foreign exposer Professor and Head Department of Post-Harvest Technology (Horticulture) NDUAT, Faizabad / **Advance training at National Level**	

- Attended training on "Cultivation, Post Harvest Technology and Water Management" from 14th Feb.-22nd Feb. 1997 at **Israel Institute of Technology Technion City, Haifa, Israel**
- Attended training on Sub- Surface drainage, water management and production management of agricultural crops at **Directorate of Extension, Cairo, Egypt** from 23rd Feb- 2nd March 1997

Managerial training

- Attended training on "**Marketing of Vegetables**" from 12-13 Jan., 1999. Organized by national Institute of Agricultural Marketing (N.A.I.M.), Jaipur at I.C.C, M.R.T., Lucknow.
- Attended training on "**BLUE PRINT FOR SUCCESS**" between 10th-12th September., 1999 organized by Qualified Learning Systems (U.S.A. & INDIA) at Hotel Taj, LUCKNOW
- Attended training on Training of "Project **Management Skill**" from 11th Now. -16th Nov. 2000 at Manage, Rajendranagar, Hyderabad

Academic/Administrative/Other responsibilities

- Participated for Technology dissemination at Governor House/year
- Member Project evaluation committee of UPCST, DST
- Participated for Technology dissemination at University Kisan Mela
- Participated in different decision-making various committees like subsidies, plant standard & rate of planting material of Directorate of Horticulture UP
- Advisor of Medicinal Plant Board Chhattisgarh
- Attended various meetings with line department at district & state level
- Delivered lecture to farmers and other stakeholder in Kisan Mela

- Head Department of Post Harvest Technology
- Hostel Warden, Rapti, Anoma and Sarasvati Hostels
- Coordinator RHWE and Experiential Learning programs of B.Sc. (Horticulture)
- Organized Alumni meet as President in 2012 & 2013
- President Basketball
- Chairman throw events of annual sports
- Assistant Examination Superintendent
- Played a key role in organizing Annual Function (SANKALPA-2005 and 2006)
- Organized Inter hostel Volleyball tournament

- Member of Steering Committee for report preparation and visit during NAAC accreditation
- Member of Steering Committee for report preparation and visit of Impact Assessment team of ICAR

(Sanjay Pathak)

BIO-PROFILE

1	**Name**	**:**	**Prof. D. Ram, Horticulture**
2	**Address (Resi)**	**:**	A1/3 University Campus, NDUAT., Kumarganj, Faizabad- 224229 Mobile No. 09450717709
3	**(Office)**	**:**	College of Horticulture & Forestry, N DUAT., Kumarganj, Faizabad- 224229 (U.P.) Email-*drdram.map@gmail.com*
4	**Permanent Address**	**:**	Village-Rajjupur, Post-Bishunpura District-Chandauli (U.P.) 232104
5	**Caste**	**:**	Schedule Caste
6	**Educational Qualifications**	**:**	**B.Sc. (Ag. & A H), M.Sc. (Ag.) Horticulture, Ph.D. (Horticulture)**
7	**Present Position**	**:**	Professor, Horticulture Pay Scale- Rs. 37400-67000 AGP Rs. 10000.00
8	**Experience**	**:**	(**27 years Experience** in teaching, Research and Extention in the field of Horticulture specially in fruit, medicinal plants & Flowers)

POSITIONS HELD :

Designation	Name of Employer	Period of service	Project
Professor, Horticulture	V.C., N.D. University of Agriculture & Technology, Kumarganj, Faizabad (U.P.)	June 18, 2010 to till date	Department of Horticulture, NDUAT., Kumarganj, Faizabad. 224229
Associate Professor/ Horticulturist	V.C., N.D. University of Agriculture & Technology, Kumarganj, Faizabad (U.P.)	June 18, 2004 to till date	All India Networking Project on medicinal and Aromatic Plants (I.C.A.R.)
Training Associate/ S.M.S./Assistant Professor (Horticulture)	V.C., S.V.B., Patel University of Agriculture & Technology, Meerut (Department of Horticulture)	1 April 2000 to 17 June, 2004	K.V.K., Ghaziabad (U.P.) (I.C.A.R.),
Training Associate/ S.M.S./Assistant Professor (Horticulture)	V.C., G.B. Pant University of Agriculture & Technology, Pantnagar (Udham Singh Nagar), Uttranchal	24 January, 1996 To March, 2000	K.V.K., Ghaziabad (U.P.) (I.C.A.R.)
Research Fellow/ Research Associate (Horticulture)	V.C., N.D.U.A.&T., Faizabad	28-05-1994 To 23-01-1996	World Bank Project in U.P. Sodiac Land Reclamation, U.P.

PARTICULARS OF NET/SLET/GATE ETC

Name of the Test	Name of the organization	Month and year	Roll No.	Subject
ASRB New Delhi	ICAR	1993	11978	Horticulture

Field Specialisation : M.Sc. (Ag.) Hort. Study on "the Growth Characters and yield of onion (*Allium cepa*. L.) as influenced by the foliar application of urea and indole acetic acid".
Ph.D. (Hort.) "Study on ripening storage and processing of bael fruits (*Aegle Mormlose* Correa)".

AWARDS AND HONOURS:

Award: 1 Scientist of year 2012- National Seminar (Emeriging pollutants and pathogens due to climate change: Challenges and Risk reduction) at 08-09 March, 2013.
N.D. University of Agriculture & Technology, Kumarganj, Faizabad (U.P.)

Award: 2 Young scientist 2013- National Seminar (Frontier Agriculture 2013) at 21 April, 2013. N.D. University of Agriculture & Technology, Kumarganj, Faizabad. (U.P.)

Award: 3 Best Performance Award- U.P. Agricultural Science Congress 17-19 August, 2013. N.D. University of Agriculture & Technology, Kumarganj, Faizabad. (U.P.)

ADMINISTRATIVE ACTIVITIES AND EXPERT MEMBER OF DIFFERENT BOARDS:

- Assistant Hostel Warden of Post Graduate students (Yamuna Hostel, NDUA&T, Kumarganj, Faizabad)
- Member of Screening/selection/admission committee of NDUA&T, Kumarganj, Faizabad.
- Member of Committee of Fellowship SC/ST award NDUA&T, Kumarganj, Faizabad
- Member of Promotion of Officers/teachers/karmchari NDUA&T, Kumarganj, Faizabad.
- Vice- President Alumni Association 2010-11 of NDUAT., Kumarganj, Faizabad.
- Member of various committee regarding 12th Convocation held at Main Campus NDUAT., Kumarganj, Faizabad.
- Member of Admission committees CATET Examination 2006-2012
- Guest House In-charge, N.D.U.A.T., Kumarganj, Faizabad Since June, 2012 to till date
- Farm In-charge MES Horticulture Pithla, N.D.U.A.T., Kumarganj, Faizabad.

MEMBER OF SOCIETIES / JOURNALS:

- Life member of progressive horticulture. Hill Horticulture Development Society of HETC Chaubattia (Ranikhet) Almora in India.
- Life member of journal of ornamental horticulture. Indian Society of Ornamental Horticulture Division of Floriculture Landscaping, IARI, New Delhi.
- Annual member of Indian Journal Horticulture Society of India, ICAR, New Delhi.
- Member of quarterly rural advisory meeting All India Radio, New Delhi on 1997 to May, 2004.
- Referee/ experts of research projects.
- Purvanchal kheti.
- Krishi vigyan patrika.

- **Expert for evaluation and examiner** for M.Sc. and Ph.D. research B.B.A. University Lucknow.
  Birsa Agriculture University & Technology, Bihar. (Jhansi, Meerut, Agra, Faizabad)
- **Examination duties** (Invigilation, question paper setting. Evaluation/ assessment of answer scripts) as per allotment University/Colleges

PUBLICATION:

1. **BOOK:** Handbook of Medicinal and Aromatic Crops, 2006.

2. **Horticulture at a Glance:** ISBN No. 9789351247739

3. **Bulletin:** egqvk dh ckxokuh

4. **Mannual-** Medicinal & Aromatic Plants Practical Mannual on Horticultural crops

COMPILED ANNUAL & BIENNIAL PROGRESS REPORT OF VARIOUS STARTING FOR 2004 TO TILL DATE

REVIEW MEETING ATTENDED AS PROJECT-INCHARGE AND OR CO-PROJECT INCHARGE 2004 TO TILL DATE-

Sl. No	Name of programme attended	Name of sponsoring agency	Period
1.	**Review Group meeting AINP on Medicinal & Aromatic Plants.**	MPUST, Udaipur, Rajasthan	11 Dec. to 14 Dec., 2004
2.	**Review Group meeting AINP on Medicinal & Aromatic Plants.**	Dr. Panjab Rao Deshmukh, Krishi Vidhya Peeth, Akola. (Maharastra)	30 October to 2 November, 2006
3.	**Review Group meeting of R & D Net work programme on tree Borne oil seeds (NOVOD), Ministry of Agriculture, Govt. of India.**	NASC Campus, IARI, Pusa Campus New Delhi.	12 February, 2008
4.	**Annual Review Meeting of NHM, Ministry of Agriculture, Govt. of India**	TNAU, Coimbatore	August- 7, 2008
5.	**Review Group meeting AINP on Medicinal & Aromatic Plants.**	Kerla Agric. Uni. Trichur	15 November to 18 November, 2008
6.	**Review Group meeting R&D Network programme Tree borne Seed on National Oil Seed and Vegetable Oil Development Apricot & Chura.**	NASC Campus, IARI, New Delhi.	24 March, 2009
7.	**Review group Meeting of NHM Ministry of Agriculture Govt. Of India**	BCKVV, Nadia, West Bengal	9 August to 20 August, 2009
8.	**Review group meeting R&D Net work programme on tree borne oil seed an National oil seeds and vegetable oil development board on Jatropha & Karanja and wild apricot & cheura**	**Ministry of Agriculture, Govt. Of India, 86 Sector 18 Industrial Area, Gurgaon, Haryana**	29 May, 2010
9.	**Review group Meeting of NHM Ministry of Agriculture Govt. of India**	**Achrya N.G. Ranga Agriculture Univ. Rajendra Nagar University Campus, Hydrabad**	4 Aug. to 5 Aug., 2011
10.	**Review group Meeting of NHM Ministry of Agriculture Govt. of India**	Maharana Pratap Agriculture University & Technology, Udaipur (Rajasthan)	8, 9 August, 2011

11.	**Review group meeting R&D Net work programme on tree Borne oil seed**	National oil seeds and vegetable oil development board on Jatropha & Karanja and wild apricot & cheura. Forest Research Institute Dehradun, Uttarakhand.	**8 October, 2011.**
12.	**Review group Meeting of NHM Ministry of Agriculture Govt. Of India**	University of Agriculture Science JKVK, Campus Banglore	**17 July to 19 July, 2012**
13.	**Review Group meeting R&D Network programme Tree borne Seed on National Oil Seed and Vegetable Oil Development Apricot & Chura.**	**Ministry of Agriculture, Govt. Of India, 86 Sector 18 Industrial Area, Gurgaon, Haryana**	17-18 April, 2013
14.	**Review Meeting of the schemes on Spices & Aromatic Plants under NHM implemented through DASD**	**Centre for Research on Seed Spices (CRSS) Sardarkrushinagar Dantiwada Agricultural University, Jagudan in Gujrat**	19th & 20th June 2013
15.	**Review group Meeting of NHM Ministry of Agriculture Govt. of India held at the college of Horticulture, University,** Venkataramannagudem, Tadepalligudem (Chennai)**, on 19**	**Review group Meeting of NHM Ministry of Agriculture Govt. of India held at the college of Horticulture, University,** Venkataramannagudem, Tadepalligudem (Chennai)**,**	**20th June 2015.**

Name	Dr. Bhanu Pratap
Qualification(s)	Ph.D., NET
Designation	Associate Professor
Discipline/Department	Horticulture
Specialization	Pomology, & Floriculture
Contact No.	9415439398
***e-mail* address**	*drbhanupratap71@gmail.com*

Publication (Total)	(Including Research Paper, Review, Article, Manual, Book, Booklet, Book Chapter, Pamphlet, Leaflet, Abstract etc.)- 39					
	Author	**Year**	**Title**	**Journal Name**	**Vol.(No.): pp**	**NAAS Rating/Indexed/ ISSN No./Impact Factor**
Research Paper	Vijay Singh Meena, **Bhanu Pratap**, K.C. Bhatt, K. Pradeep, N.L. Meena, Ashok Kumar and Kuldeep Singh	2020	Physico-Chemical Studies on Maroon Coloured Karonda (*Carissa carandos*) collected from Uttar Pradesh, India	*International Journal of Economic Plants*,	7 (1)	5.21
Research Paper	H. K. Singh, Shashank Singh, Ashish Singh, **Bhanu Pratap** and Anil Kumar	2020	Effect of Pruning Intensity and Foliar Feeding ofNutrients on Growth and Quality of Phalsa *(Grewia subinaeqalis*D. C*)*	*Int.J. Curr.Microbiol.App.Sci.* https://doi.org/10.20546/ijcmas.2020. 901.108.	9(1)	5.31
Research Paper	Sneha Singh, **Bhanu Pratap,** Vimlesh Kumar, Atul Yadav, Dheeraj Yadav and Abhinav Kumar	2021	Assess the effect of integrated nutrient management on flowering and fruiting behavior of aonla cv. Francis.	International Journal of Chemical Studies	9(2)	5.31
Book/Book Chapter	**Author**	**Year**	**Chapter Title**	**Book Name**	**Publisher (pp)**	**ISBN/CAS/CAFT/Without ISBN**

Book Chapter	Pradeep Kumar, Hemant Kumar Singh, and **Bhanu Pratap**	2020	Diseases of Grape and their management	Diseases of Economically Important Horticultural Crops	Daya Publishing House-A Division of Astral International Pvt. Ltd., 4736/23, Ansari Road, Darya Ganj, New Delhi.	

Awards and Recognition	**Program/ Event**	**Year**
Excellence in Teaching Award	Outstanding SSDAT **Excellence in Teaching Award** at the occasion ofNational Conference on EPRAAS at during 8-9 Feb.2014 C.C.S.U. Meerut	2014
Excellence in Teaching Award	**Excellence in Teaching Award** at the occasion of international seminar onIndigenous Technologies for Sustainable Agriculture and Better Tomorrow during 9-10 Jan. 2016 organized by SVWS, Lucknow	2016
Excellence in Teaching Award	SERS **Excellence in Teaching Award** on the occasion of Innovative Approaches in Applied Sciences and Technologies in 2 **International Conference** during 19-23 June 2017 at Nanyang Technological University Singapore	2017
Excellence in Teaching Award	**Excellence in Teaching Award** at the occasion of National Conference on Doubling farmers income for sustainable and harmonious agriculture, DISHA-2017 during 9-10 Sep.2017 at Sri Venkateswara University, Tirupati	2017
Distinguished Scientific Award	**Distinguished Scientific Award** at **International Conference** on AAPS during international conference advances in agriculture and applied sciences for promoting food security at Battishputli Kathmandu Nepal 13-15 May 2017	2017
Best Teacher Award	**Best teacher award** on the occasion of teachers' day by the Honourable Vice-chancellor, ANDUAT, Kumarganj, Ayodhya-5 September 2020	2020
Project in Hand/ Projected Completed	**PROJECT TITLE**	**FUNDING AGENCY**
	All India Coordinated Research Project on Arid Zone Fruits	AICRP-ICAR, New Delhi

Name	Dr. C.N. Ram	
Qualification(s)	Ph.D.	
Designation	Associate Professor	
Discipline/Department	Vegetable Science	
Specialization	Plant Breeding	
Contact No.	09451205686	
***e-mail* address**	cnram2006@yahoo.co.in	

Publication (Total)	**(Including Research Paper, Review, Article, Manual, Book, Booklet, Book Chapter, Pamphlet, Leaflet, Abstract etc.)- 39**					
	Author	**Year**	**Title**	**Journal Name**	**Vol. (No.):pp**	**NAAS Rating /Indexed / ISSN No./Impact Factor**
Research Paper	Mahendra Kumar Yadav, **C. N. Ram**, G. C. Yadav, Nisha Kant Maurya	2019	Extent of genetic varivility, heritability genetic advance for quantitative traits in tomato (Solannum lycopersicon [mill] Wettsd.)	*Internatio of nal Journal Chemical Studies*	7(5): 261-263	5.31
	Sandeep Kumar Gupta, G. C. Yadav, **C. N. Ram**, Manjeet Kumar and S.K Verma	2019	Estimation of direct and indirect yield contributing traits in egg plant (*solanum melongena* L.)	*An International Refereed, Peer Reviewed & Indexed Quarterly Journal in Science, Agriculture & Engineering.*	(VIII):305-307	5.20
	Kumar, P.; Singh, P.K.; Yadav, G.C.**: Ram, C.N.**; Yadav, S. and Verma, S.K.	2019	Studies on combining ability in tomato (*Solanum lycopersicum* (Mill.) Wettsd.).	*An International Refereed, Peer Reviewed & Indexed Quarterly Journal in Science, Agriculture & Engineering*	(VIII):301-302	5.20

	Maurya, N.; Yadav, G.C.; **Ram, C.N.**; Yadav, M.K. and Gupta, S.	2020	Studies on character association and path analysis in garden pea (*Pisum stivum* L. sub Sp. *hortense* Asch.).	*Int. J. Chem. Stud.*	8(1): 616-619.	5.31
Research Paper	Manjeet Kumar, **CN Ram**, GC Yadav, Sharvan Kumar and Devraj Singh	2020	Studies on gene action involved in inheritance of yield and its contributing traits in brinjal (Solanum melongena L.)	*International Journal of Chemical Studies.*	2020; 8(3): 761-767	5.31
	Manjeet Kumar, **CN Ram,** GC Yadav, Sharvan Kumar and Rohit Kumar Bajpai	2020	Studies on genetic variability, heritability in narrow sense and genetic advance in percent of mean in brinjal (Solanummelongena L.)	*Pharma Innovation Journal.*	2020; 9(9): 300-303	5.23
	Sumit Kumar, **CN Ram,** Shiva Nath, Shravan Kumar, ManishaKumari and Vivek Singh	2020	Studies on genetic variability, heritability and genetic advances in fenugreek (Trigonella foenum graecum L.)	*Journal of Pharmacognosy and Phytochemistry.*	9(5): 481-484	5.21
	Manisha Kumari, **CN Ram,** Shiva Nath, NishakantMaurya and Sumit Kumar	2020	Studies on genetic variability, heritability and genetic advance in cucumber (Cucumis sativus)	*Journal of Pharmacognosy and Phytochemistry.*	9(5): 481-484	5.21
	CM Gupta, GC Yadav, **CN Ram,** Pradip Kumar, Raja Bhaiya and AnojYadav	2020	Estimation of direct and indirect association of independent traits with seed yield in bottle gourd (Lagenaria siceraria (Mol.) Standl.)	*Journal of Pharmacognosy and Phytochemistry.*	9(6): 1668-1671	5.21

	Prateek Kumar and **CN Ram**	2021	Estimation of heterosis in bottle gourd (Lagenaria siceraria (Mol.) Standl.)	*The Pharma Innovation Journal.*	10(7): 1044-1053	5.23
Article	Manjeet Kumar, **Dr. C. N. Ram**, Dr. G. C. Yadav, Shravan Kumar and Devraj Singh	2019	Shaljam ki unnat kheti	*Madhy Bharat Krashak Bharti*	Januar y pp. 11	2019 -
	Manjeet Kumar, **Dr. C. N. Ram** and Dr. G. C. Yadav	2019	Mrida svasthya Labhkari Evam Tikaue krishi ka ek abhinn ang.	*Madhy Bharat Krashak Bharti*	*April 2019 pp. 26*	-
	Manjeet Kumar, **Dr. C. N. Ram**, and Dr. G. C. Yadav	2019	Matar ki Vaigyanik kheti	*Pooryanchal Kheti*	October, pp. 06-08.	-
Article	Dr. Pradeep Kumar, Dr. G. C. Yadav and **Dr. C. N. Ram**,	2020	Pyaj Men Samekit Nashi jeevi Prabandhan	Pooryanchal Kheti	October pp. 19-20-23	-
	C.N. Ram, G.C. Yadav, Amar, PutanYadav	2021	Drumstick: a miracle & nutraceutical tree.	*AGRIBLOSSOM: A monthly peer reviewed e-magazine for Agriculture & allied Sciences*	*Volume-1 Issue- 7, February, 2021, Page No. 10-13*	ISSN-2582-8258
	Dr. C. N. Ram, and PutaYadav	Mr. 2021	Bhartiya Kisan: Keetnashkon ka prayog karate samay keen baton ka dhyan rakhen ya sawadhania karse barten.	Krishk Aradhana, 15-21, March,	15-21, March, 2021.	ISSN-2582-7286
	Mr. Dijendra Kumar and **Dr. C. N. Ram**	2021	Vagyanik Vidhi se Greenhouse men tamatar ki bemausami kheti karana.	Bhart Krishk	January, 2021 Page No. 47.	-
	Mr. Dijendra Kumar and **Dr. C. N. Ram**	2021	Matar ki Vaigyanik Vidhi se Jaivik Kheti Karana,	Bhart Krishk	January, 2021 Page No. 38.	-

Book/Book Chapter	**Author**	**Year**	**Book Title**	**Book Name**	**Publisher (pp)**	**ISBN/ CAS/ CAFT / Without ISBN**
Book	G. C. Yadav and C. N. Ram	2020	Text Book of Vegetable Breeding	Text Book of Vegetable Breeding	Rubicon Publications 4/4A Bloomsbury, Square, London, WC1A 2RP, England	978-1-91348 2-87-9
	C. N. Ram and G. C. Yadav.	2020	Text Book of Plant Breeding	Text Book of Plant Breeding	Rubicon Publications 4/4A Bloomsbury, Square, London, WC1A 2RP, England	978-1-91348 2-85-5
	G. C. Yadav and C. N. Ram	2020	Objective Vegetable Breeding (For competitive Examinations)	Objective Vegetable Breeding	Rubicon Publications 4/4A Bloomsbury, Square, London, WC1A 2RP, England	978-1-91348 2-86-2

Dr. S.K. Verma
Designation: Associate Professor (Fruit Science)

Mobile: 9450234406

E-mail: vermasant@gmail.com

Education: B.Sc. (Ag.), ANDUAT, Ayodhya (2000); M.Sc. (Ag.) Horticulture, CSAUAT, Kanpur (2002); Ph.D. (Horticulture) Fruit Science, ICAR-IARI, New Delhi (2007): NET- ICAR-ASRB (Fruit Science) -2004

Field of specialization/ Research Interests:

1. Crop improvement and rootstock/ varietal evaluation of Ber and Tamarind.
2. Nursery Management of fruit crops.
3. Fruit production technology of other minor fruit crops.

Research Publications: **30**

Selected Research Publications:

1. **Verma, S.K.** and Gaur, G.S. (2006). Studies on storage stability of phalsa beverages. *Progressive Horticulture*, **38**(2): 252-255.

2. **Verma, S.K**., Singh, S.K., Room Singh, and Patel, V.B. (2007). Nursery evaluation of different grape (*Vitis* sp.) rootstocks under sub-tropical plains. *Indian Journal of Horticulture*, **64**(3): 263-267.

3. **Verma, S.K**., Singh, S.K. and Hare Krishna (2010). The effect of certain rootstocks on the grape cultivar 'Pusa Urvashi' (*Vitis Vinifera* L.). *International Journal of Fruit Science*, **10**(1):16-28.

4. Hare Krishna, Singh, S.K., Sairam, R.K. and **Verma, S.K.** (2010). Effect of different factors on invitro tip culture established in mango. *Indian Journal of Horticulture*, **67**(3): 293-300.

5. **Verma, S.K**., Singh, S.K., Patel, V.B. and Singh, K.M. (2010). Grafting and stionic effects in grape. *The Journal of Rural and agricultural Research,* **10**(1):1-3.

6. **Verma, S.K**., Singh, S.K., Hare Krishna and Patel, V.B. (2012). Comparative performance of different grafting techniques in grape cv. Pusa Urvashi. *Indian Journal of Horticulture*, **69**(1):13-19.

7. Katiyar, H., Kumar, V., Ram, B., and **Verma, S.K.** (2013). Genetic variability in potato genotypes for qualitative traits. *Annals of Horticulture*, **6**(2): 235-241.

8. Prasad, N., **Verma, S.K.,** Singh, K.M., Singh, L.B. and Sahu, R.P. (2014). A comparative study of impact of KVK's managed by different agencies in Uttar Pradesh. *Indian Journal of Extension Education*, **50**(3&4): 74-77.

9. **Verma, S.K.** and Singh, S.P. (2015). Economic analysis through Frontline Demonstrations in bottle gourd. *Progressive Agriculture--An International Journal*, **15**(2) 305-306**.**

10. Prasad, N., **Verma, S.K.** and Singh, S.P. (2016). Organic farming: Livelihood for small farmers. *Technofame: A Journal of Multidisciplinary Advance Research*, **05**(1): 131.

Awards/Honors: 15

Selected Awards

1. **Distinguished Service Award – 2016** received in the Field of Horticulture by BIOVED Research Institute of Agriculture, Technology and Sciences, ***IN:*** 18th Indian Agricultural Scientists & Farmers Congress on Prospects of Skill Development in Agriculture and Rural Development –A Step Towards make in India, 20-21 Feb. 2016 at Allahabad.

2. **Young Fellow Award – 2016** received in the field of Horticulture by Society for Recent Development in Agriculture, Meerut. ***IN:*** Global Agriculture and Innovation Conference (GAIC - 2016), 27-29, November, 2016 at Noida.

3. **Scientist of the Year Award - 2019** received for contribution in the field of Horticulture by Pragati Scientific International Research Foundation, Meerut, U.P. ***IN*** International Conference on Sustainable Agriculture Production for Food, Nutritional and Livelihood Security: A Challange for Asian Farmers, 25-27 Sept., 2019 at Pattaya, Thailand.

4. **Young Scientist Award – 2021 by** New Age Mobilization Society, New Delhi. **IN** Research Initiative for Agriculture, Biotechnology and Allied Science (ICRIABAS-2021) .24-25 April, 2021 at SVPUAT, Meerut, UP.

5. **Young Scientist Award – 2021 by** New Hi-Tech Horticulture Society, Meerut. **IN** 5th Global Meet (GMST-2021) 08-09 October, 2022 at Swami Vivekanand Subharti University, Meerut, UP.

- **Fellowship: 01 (IARI Fellowship for Ph.D. degree programme)**

- **Project Handled: 02**

1. Establishment of small nursery for fast multiplication of elite clones and new varieties of Mango, Guava, and Litchi/Aonla. Funded by UPCAR, Lucknow
2. High Density Guava Cultivation and Demonstration with Cost Effective Meadow Technology funded by NABARD.

- **Book Published: 01**

1. Verma, S.K. (2013). Stionic effects in grapevines (V*itisVinifera* L.). Lambert Academic Publication, Germany ISBN No. 978-3-659-36220-0. P-131.

- **Book Chapter-08**
- **Bulletins -08**
- **Poplar Articles -52**
- **Extension leaflets: 03**
- **Folder : 01**
- **Developed E- Content: 02**
- **Life Member of the Societies: 03**
- **Radio Talk : 04**
- **TV Talk: 01**
- **Guiding Ph. D. Student: 01**
- **Guiding M. Sc. Student: 02**
- **Attended Seminar and Symposia**

1. **International (Abroad): 01**
2. **International (Within Country): 07**
3. **National: 13**

- **Attended Winter/Summer School: 03**
- **Attended Workshop: 02**
- **Attended Trainings: 08**

(Dr. S. K. Verma)

Name	Dr. Sanjay Kumar Verma
Qualification(s)	Ph.D. Forestry
Designation	Assistant Professor
Discipline/ Department	Agroforestry
Specialization	Agroforestry
Contact No.	9454932174
e-mail address	ver.sanj@gmail.com

Publication (Total) (Including Research Paper, Review, Article, Abstract etc.)

	Author	Year	Title	Journal Name	Vol.(No.): pp	NAAS Rating/Indexed/ ISSN No./Impact Factor
Research Paper	S.K. Verma, A.K. S. Parihar, O.P. Rao, andRajesh Kumar	2019	Performance of *Populus deltoids* clones and yield potential of paddy and wheat varietyin partially reclaimed sodic soil.	Multilogic in Science ISSN 2277-7601	VOL. VIII, Special issue, National Seminar on RTTEPSR, NDUAT, Ayodhya,Page 197-198.	

Abstract	Author	Year	Abstract	Place
Paper presented On Natural Resource Conservations and Management March 20-22, 2021.	S.K. Verma and O.P. Rao	2020	Paper presented in National Web Seminar entitled "Effect of fertilizers on Turmeric (*Curcuma longa*) and Guava (*Psidium guajava*) under agri-silvi-horti systems on partially improved sodic soil" on Natural Resource Conservations and Management March 20-22, 2021.	Online

Name	Dr. Ulman Yashmita Nitin
Qualification	Ph.D., NET
Designation	Assistant Professor
Discipline/Department	Forestry/Silviculture & Agroforestry
Specialization	Agroforestry, Community forestry, Wildlife, Non-timber Forest Products
Contact No.	7021299678
***e-mail* address**	*yashmita2018(at)gmail(dot)com*

Publication (Total) (Including Research Paper, Review, Article, Manual, Book, Booklet, Book Chapter, Pamphlet, Leaflet, Abstractetc.) - **36**

	Author	Year	Title	Journal Name	Vol. (No.): pp	NAAS Rating
Research Paper	**Yashmita - Ulman** and Manoj Singh	2021	Density, habitat associations and conservatio n status of *Gekko gecko* (Tokay gecko) in human-dominated landscapes around Nameri Tiger Reserve, Assam, India	Acta Ecolog ica Sinca	In Press, https://doi.org/10.1016/j.chnaes.2021.03.004	
Research Paper	**Yashmita-Ulman**, Manoj Singh, Awadhesh Kumar and Madhubala Sharma	2021	Conservati on of wildlife diversity in agroforestr y systems in eastern Himalayan biodiversity hotspot	Procee dings of Zoolog ical Societ y	74: 171-188	
Research Paper	**Yashmita-Ulman**, Manoj Singh, Awadhesh Kumar and Madhubala Sharma	2021	Conservati on of plant diversity in agroforestr y systems in a biodiversity hotspot region of Northeast India	Agri cultu ral Rese arch	In Press, https://doi.org/10.1007/s40003-020-00525-9	5.95
Research Paper	**Yashmita-Ulman**, Manoj Singh, Awadhesh Kumar, Madhubala Sharma	2020	Negative human-wildlife interactionsin traditional agroforestr y systems in Assam, India.	Journal of Threate ned Taxa	12(10): 16230-16238	5.64

Research Paper	**Yashmita-Ulman**, Manoj Singh, Awadhesh	2020	Agroforestry systems: A boon or bane for	Proceedings of Zoological Society	https://doi.org/10.1007/s12595-020-00335-5	
	Kumar, Madhubala Sharma		mammal conservation in northeastern India?			
Research Paper	Manoj Singh, Akash Jaiswal, **Yashmita-Ulman** and Krishan Kumar	2019	Vocal adjustmentsin purple sunbird (*Cinnyris asiaticus*) at noisy habitats	Acta Acustica united with Acustica	105: 294-300	
Book/Book Chapter	**Author**	**Year**	**Chapter Title**	**Book Name**	**Publisher (pp)**	**ISBN/CAS/CAFT/Without ISBN**
Awards and Recognition	**Program/ Event**					**Year**
Project in Hand/ Projected Completed	**PROJECT TITLE**		**FUNDING AGENCY**		**Principle Investigator / Co-Principle Investigator**	**Year**

NOTE: Complete information from the time of joining (Mostly from 2019-2021). In publication column mentiondata achieved throughout the career.

CV OF DR AASTIK JHA

Name	:	***Dr. Aastik Jha***
Father's Name	:	*Sri Narottam Jha*
Date of Birth	:	August 08, 1982
Marital Status	:	Married
Sex	:	Male
Nationality	:	Indian

Permanent Address	:	*Vill.- Shivpur, Post – Malhipur, Distt.-Sultanpur (U. P.)- 228001*
Corresponding Address	:	Department of Vegetable Science, CHF, ANDUA&T, Kumarganj, Ayodhya-224229, Uttar Pradesh
Email	:	aastikiivr@gmail.com
Contact No.	:	Mob. – 91-*9453909227,06388007474*

EDUCATIONAL QUALIFICATION

Degree/Diploma	Board/University	Subject
High School	*U. P. Board*	Agriculture
Intermediate	*U. P. Board*	Agriculture
B. Sc. (Ag.)	U.P.Autonomos College, Varanasi	Agriculture
M. Sc. (Ag.)	U.P.Autonomos College, Varanasi	Horticulture
Ph. D	MGCG,University, Satna , M.P	Horticulture
B.Ed	BU, Jhanshi	Agriculture

Qualified ICAR NET: Horticulture (Vegetable Science) - November, 2014

M. Sc. (Ag.) Thesis: *Genetic analysis of yield and its components in Pumpkin (Cucurbita moschata Duch. ex Poir.)"*

Ph.D. Thesis Title: Genetic diversity in bottle gourd [*Lagenaria siceraria* (Mol.) Standl.] inbred using molecular markers and their relation with heterosis**.**

Research Experience

- Working as Assistant Professor (Vegetable Science), Department of Vegetable Science, College of Horticulture & Forestry, ANDUAT, Kumarganj, Ayodhya, Since 15-11-2023 to Till date
- Worked as **Assistant Breeder (Scientis**t), ICAR-AICRP (Vegetable Crops), Dept. of Horticulture, SASRD, Nagaland University, Medziphema Campus, Nagaland since 18-12-2015 to 14-11-2022.
- Worked as **SMS (Horticulture) at** KVK, Raisen (M.P.) from 01-09-2015 to 16-12-2015.
- Worked as **Research Associate** in Project entitled **"Validating crop specific DUS testing guidelines for cucumber, bottle gourd, bitter gourd, pumpkin and pointed gourd" at** Indian Institute of Vegetable Research, Varanasi (U.P.) from 1-7-2013 to 28-8-2015.
- Worked as **Senior Research Fellow** in Project entitled **"Validating crop specific DUS testing guidelines for cucumber, bottle gourd, bitter gourd, pumpkin and pointed gourd" at** Indian Institute of Vegetable Research, Varanasi (U.P.) from 1-7-2010 to 30-06-2013.

- ❖ Worked as **Senior Research Fellow** in Project entitled "**Identification / Development of Suitable Ash gourd Variety / Hybrid for Petha Industry"** at Indian Institute of Vegetable Research, Varanasi (U.P.) from 02-11-2006 to 31-03-2010.

Publications

Research papers (52)

Abstracts (65)

Edited Book (01)

Book Chapters (07)

Extension folders (8)
Technical Bulletin (01)

Popular Articles (14)

Handling Research Project (05)

Awards

1. **Fellow Award – 2020** in 4th International conference on "Global approaches in natural resource management for climate smart agriculture (GNRSA-2020) during pandemic era of COVID-19" during 26-28 February, 2021 held at Shobhit Deemed University, Meerut, U.P. organized by Agricultural Technology Development Society (ATDS) Ghaziabad, UP.
2. **Outstanding Horticulturist Award-2021** in 4th International conference on " Doubling farmers income for sustainable& harmonious agriculture(DISHA-2021) during 13-14th March,2021 held at Sambodhi retreat, Dhanbad, Jharkhand organized by Green Agri Professional Society (GAPS), Dhanbad, Jharkhand.
3. **Scientist of the year award 2019** in International conference on "3rd global meet on science and technology for ensuring food and nutritional security" (GMST02019) held during 1-3 December, 2019 at NRC on Seed spices, Ajmer (Raj.) India.
4. Excellence of Research Award 2021 in ….The Indian Society for the Promotion of Agricultural Sciences (TISPAS), Nagaland.
5. **Young Scientist award** in "17th Indian Agricultural Scientists and Farmers' Congress on "Agri-Innovation for Enhancing Production & Rural Employment ''during 21-22 Feb. 2015, organized by Bioved Research Institute of Agriculture & Technology, Allahabad.
6. **Best poster presentation award** In: "natl. symp. on "Precision Horticulture for Small and Marginal Farmers -2014.", June., 24-27, organized by IGKV, Raipu and Indian Society of Vegetable Science held at IGKV Raipur Chhattisgarh. (T. Chaubey, B. Singh, S. Pandey, **A. Jha** and D.K. Upadhyay (2014). Varietal Characterization of cucumber varieties/ genotypes using DUS characters. pp. **213-214.**)

7. **Best poster presentation award** In: "natl. symp. on "Conservation Horticulture-2010.", March., 21-32, organized by GB Pant University of Agriculture and Technology, Pantnagar in collaboration with Indian Society of Horticultural Research and Development at Deharadoon ,. (S. Pandey, A. Singh, **A. Jha** and B**.** Singh, (2010). Development of hybrid in snakemelon by utilizing intra-specific variation of other melon groups for changing climate with yield and nutritional potential. pp. 213-214).

Radio Talk

- Patgobhii ki phaslo me samyik karya. AIR, Varanasi (21-11-2008).

Organized Training Programme

Farmers training programme "Advance production and protection of summer vegetable crops under AICRP (VC)-TSP programme, held at SASRD, Nagaland University dated on 10-03-2016.

Massive open online course (MOOC) Programme Successfully Completed (01)

- Successfully completed one month MOOC (Massive open online course) on "Designing E-Learning Content" organized by ICAR-National Academy of Agricultural Research management (NAARM), Hyderabad held during 1st -31st July, 2020.

Orientation Programme Successfully Completed (01)

- Successfully completed a 4-Week Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education" from 01-09-2020 to 30-09-2020 and obtained a grade A+ at Teaching Learning Centre, Ramanujan College Teaching Learning Centre, Ramanujan College University of Delhi.

Dr. Anil Kumar

Designation: Assistant Professor (Vegetable Science)

Mobile: 9415474728

E-mail:akkakori@gmail.com

Education: B.Sc. (Ag.), ANDUAT, Kumarganj (2009); M.Sc. (Ag.) Vegetable Science, ANDUAT, Kumarganj (2011); Ph.D. (Vegetable Science), Banaras Hindu University, Varanasi (2016),

Field of specialization/ Research Interests:

1. Crop improvement in vegetable crops
2. Vegetable breeding for climate resilience
3. Protected cultivation
4. Breeding for disease resistance

Projects accomplished:

Development of Sustainable Agricultural Systems involving fruit, fodder crops and exotic vegetable for better livelihood option to farming community of Ladakh	Department of Science and Technology	150 lakhs	**PI**
Precision farming development centre (PFDC)	Ministry of Agriculture	43 lakhs	**CO PI**
Tribal sub plane (TSP)	Govt. Of India (ICAR)	110 lakhs	**CO PI**
Conservation of Medicinal Plants and Promotion of Indigenous Knowledge through Local Health Traditions among Rural Communities in Ladakh	Ministry of AYUSH, GOI	21 lakhs	**CO PI**
Development of solar power integrated micro irrigation system for arid condition of Ladakh	Ministry of Agriculture	22 lakhs	**CO PI**

Student guided

Major Advisor: 01

Committee member-05

Selected Research Publications:

1. Kumar, A., Yadav, G.C., Prasad, R., Singh, A.K. and Pandey, V(2014). Influence of gene action in Diallel crossing on Bottle Gourd. *The Bioscan*, 9(2), 783-787

2. Kumar, A., Yadav, G.C., Pandey, V and Prasad, R. 2014. Mean performance of parents and F_1s for earliness and marketable yield related traits in Bottle Gourd. *Annals of Biology,* 30 (2), 394-399

3. Kumar, A., Yadav, G.C., Pandey, V and Patel, M.S., (2014). Studies on combining ability for yield and its related traits in Bottle gourd. *Annals of Agri Bio Research,* 19 (1), 140-143
4. Verma, R., Manjunath, B.L., Singh, N.P., Kumar, A., Asolkar,T., Chavan, V., Srivastava, T.K and Singh, P., (2018). Soil mapping and delineation of management zones in the Western Ghats of coastal India. *Land Degradation & Development,* 29 (12), 4313-4322
5. Verma, R. R., Srivastava, T. K., Singh, P., Manjunath, B. L and Kumar, A (2021). Spatial mapping of soil properties in Konkan region of India experiencing anthropogenic onslaught. *PLoS ONE*: 16(2): 1-21.

Awards/Honours/Distinctions:

- Senior research fellow [ICAR(PGS)]
- Rajiv Gandhi national fellowship (UGC)
- Received "Best Oral presentation award"-2017 from International Conference on Agricultural, Allied Sciences & Biotechnology for sustainability of Agriculture, Nutrition & Food security -2017
- Appreciation Letter by Dr. T. H. Masoodi, Associate Director (R&E), Leh during two days state level workshop on topic "Protected cultivation technologies for cold deserts " on 22-23 November-2017
- Appreciation letter by Shri. S.K. Pathenayak Secretary Deptt. of Agriculture, GoI New Delhi for excellent research work and demonstration at PFDC centre.
- Appreciation letter by Prof. Nazeer Ahemad Hon'ble Vice Chancellor SKUAST-K for excellent research work and demonstration at PFDC centre.
- Received "Best Oral presentation award"-2018 from International Conference on Impact of climate change and abiotic stresses on agriculture and management strategies held at Banaras Hindu University, Varanasi on 17-18 November 2018
- Appreciation Letter by Dr. S. K. Chauhan, Head, CAZRI-RRS on 06/04/2018
- Agriculture excellence scientist award 2018 by Mahima research foundation
- Best poster award "Technological intervention for vegetable production under cold arid condition of Ladakh", ICVEG-21, IIVR, Indian Society of vegetable Science 2021

Dr. Devendra Kumar
Designation : Assistant Professor (Silviculture & Agroforestry)
Mobile: : 9455697796
E-mail- devendraagfkumar@gmail.com

Education: M.Sc. (Agroforestry), AAI-DU, Allahabad (2007); Ph.D. (Agroforestry), SHIATS, Allahabad (2013)

Field of Specialization/ Research Interest:

1. Silviculture & Agroforestry
2. Medicinal and Aromatic Plants (MAP)
3. Natural Resource Management.

Projects Accomplished:
None

Ongoing Projects:
None

Selected Research Publication:

1. Vinita Bisht, K.S. Bangarwa, R.S. Dhillon and **Devendra Kumar** (2021). Potential of wheat varieties in eucalyptus based agrisilviculture system in semi-arid ecosystem of North India. *Indian Journal of Agroforestry* 23(1), 28-32. **(NAAS rating-5.19).**
2. Rabindra Kumar,B.P. Singh, **Devendra Kumar**, (2018). Yield, quality and economic of chickpea (*Cicer arietinum* L) Haryana-1 as influenced by different bio-fertilizers and phosphorus levels. *New Agriculturist*, 29 (2): pp.325-330. **(NAAS rating-3.92).**
3. Rabindra Kumar,B.P. Singh, **Devendra Kumar**, (2018). Impact of phosphorus levels and bio-fertilizers on yield attributes and yield of chickpea (*Cicer arietinum* L.) Haryana-1. *Bioved*, 29 (2): pp.281-286. **(NAAS rating-4.13).**
4. Nishant Tiwari, N. K. Jain and **Devendra Kumar** (2017). Suitability of Indian Gum (*Gum Dhawara*) as Ice Cream Stabilizer. *Bioved*, Vol. 28 No.(2)) :543-546. **(NAAS rating-4.13)**
5. **Devendra Kumar**, A. Kalra, and A. Bijalwan, Dobriyal, M. J.R. (2016). Effect of Shade and Organic manure on growth and yield of patchouli (*Pogostemon cablin* (Blanco) Benth.) under Teak (*Tectona grandis* L. f.) based agroforestry system. *The Indian Forester* 142 (11):1121-1129. **(NAAS rating-5.10)**

6. **Devendra Kumar**, B. Mehera, A. Kalra, and A. Bijalwan, (2014). Effect of IBA on length of cuttings and root formation of Patchouli [*Pogostemon cablin* (Blanco)Benth.] under Mist Chamber.*Journal of Advanced Studies in Agricultural, Biological and Environmental Sciences* (JABE) Vol. (I) issue 1, pp. 59-63. **(NAAS rating/IF-3.387)**

7. **Devendra Kumar,** B. Mehera, A. Kalra, A. Bijalwan, M. K. Tripathi. 2014. Effect of growth regulators on vegetative propagation and growth of Patchouli (*Pogostemon cablin* (Blanco) Benth.) cuttings. *Asian Journal of Science and Technology*, Vol. 5 Issue 6, pp.335-339. **(NAAS rating/SJIF-5.54)**

8. **Devendra Kumar,** B. Mehera, A. Kalra, A. Bijalwan. 2014. Yield and oil quality of Patchouli [*Pogostemon cablin* (Blanco) Benth.] under Teak (*Tectona grandis* Linn.f.) based agroforestry system in India. *Research Journal of Forest and Environmental Protection*; 1(2) pp. 81-89. **(NAAS rating/SJIF-2.6)**

9. **Devendra Kumar,** A. J. Raj, A. Bijalwan, H. B. Paliwal, S. Mishra. 2014. Impact of Spacing and Fertilizer levels on Maize (*Zea Maize* L.) under Teak based Agroforestry System. *New Agriculturist*, 25 (1): pp.83 -86. **(NAAS rating-3.92)**

10. A. Bijalwan, **Devendra Kumar**, H. B. Paliwal. 2009. Effect of Rooting Behaviour in Rose scented Geranium (*Pelargonium graveolens L.CV. Bourbon)* in different seasons under hill and mountain Agro-ecosystem of Garhwal Himalaya. *New Agriculturist*, 20 (1, 2): pp.115-121. **(NAAS rating-3.92)**

11. H. B. Paliwal, A. Bijalwan, **Devendra Kumar.** 2009. Study on variation in Ground water quality nearby Cement plant. *Bioved*, 22 (2): pp.185-188. **(NAAS rating-4.13)**

Article

1. **Devendra Kumar** and Arvind Bijalwan (2014) Patchouli Plant. *Science Reporter*, November Vol. 51(11), pp.11. (ISSN: 0036-8512)
2. Vinita Bisht, **Devendra Kumar** (2017) "Black Carbon Effect on Climate". *Technical Today*, Vol. 2 issue 3, pp. 27-28. (ISSN: 2455-9458).
3. Brajesh Kumar, **Devendra Kumar**, Vinita Bisth (2018) Hindi article on "Vano ke ghatate kchetraphal me krishivaniki ka mahatva evam uddheshya" in reputed journal *Fasal Kranti*, pp-34-36 (ISSN: 2394756X).

Awards/ Honours/ Distinctions:

1. **University Best Research Paper Award (2014)** for by Sam Higginbottom Institute of Agriculture, Technology & Sciences (Deemed University), Allahabad (U.P)

2. **Young Scientist award (Agroforestry)** (2018) by Bioved Research Institute of Agriculture, Technology & Science, Shringverpur, Allahabad (U.P.)

3. **Paryawaran Mitra Samman Award** (2018) by Bioved Research Institute of Agriculture, Technology & Sciences, Shringverpur, Allahabd (U.P.).

4. **UGC-(RGNF) (JRF)-** Fellowship during Ph.D. Agroforestry (2008-2010).

5. **UGC-(RGNF) (SRF)-** Fellowship during Ph.D. Agroforestry (2010-2013).

Career and Positions held:

- Worked as Assistant Professor (Agroforestry) in United University, Jhalwa, Prayagraj from 1 August, 2020 to 22 October, 2022.

- Worked as Assistant Professor (Agroforestry) in Bioved Research Institute of Agriculture, Technology & Sciences, Shringverpur, Prayagraj. From 1 August, 2018 to 29 June, 2020.

- Worked as Assistant Professor & Associate Professor (Agroforestry) in Mewar University, Gangrar (Chittorgarh), Rajasthan from 27th March, 2017 to 28th July, 2018.

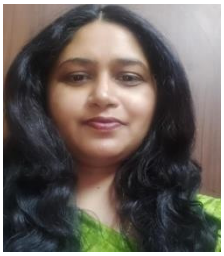
- Worked as Area Manager in Dr. Reddy's Foundation (Hyderabad), Rural Livelihood's at Patna (Bihar) from 16th June, 2015 to 18 March, 2017.

Dr. Shayma Parveen

Designation: Assistant Professor (Silviculture and Agroforestry)

Mobile: 9452724360

E-mail:shayma.agro@gmail.com



Education: B.Sc. (Forestry), JNKVV, Jabalpur (2007); M.Sc.(Ag) Agroforestry,BU,Jhansi (2009); NET (ASRB) -Forestry and Environment Science (2010)
Ph.D. (Agroforestry), BU,Jhansi (2021).

Field of specialization/ Research Interests:

1. Quality Seedling Production of agroforestry tree species
2. Allelopathic interaction in agroforestry systems
3. Organic management in agroforestry systems and in nursery stock.

Projects accomplished:

None

Ongoing Projects:

None

Selected Research Publications:

1. SHAIWAL SHEKHAR MISHRA, NARESH KUMAR, SANGRAM B. CHAVAN, ASHA RAM, INDER DEV, ASHOK SHUKLA, VISHNU R, PANKAJ LAVANIA**, SHAYMA PARVEEN (2022)** Studies on Integrated Nutrient Management in Swietenia macrophylla King. under nursery conditions. **Environment and Ecology 40 (2B) : 702—707.** (NAAS rating-5.25)
2. NIRAJ YADAV, K.B SRIDHAR, **SHAYMA PARVEEN**, S.B CHAVAN, DHIRAJ KUMAR, INDER DEV **(2022)** Effect of type and position of branch cuttings on rooting and root morphology in Bambusa vulgaris Schrad. ex. J.C. Wendl **J. Bamboo and Rattan, 21 (1):45 – 54.** (Impact factor- 0.25)
3. **SHAYMA PARVEEN (2022)** Effect of Bio-fertilizer on different Barley (Hordeum vulgare L.) Varieties under Arjun (Terminalia arjuna) based Agroforestry System **Research Journal of Agricultural Sciences (An International Journal), 13(1):108-112.** (NAAS rating-4.50)
4. C.S. DHANAI , **SHAYMA PARVEEN** , NANDINI SINGH AND R.S. BALI (**2021)** Effect of *Emblica officinalis* Gaertn. on Bio mass Production of Traditional Winter Crops in Bundelkhand Region Frontiers in Crop Improvement 9 : 2066-2069 (Special Issue-V) (NAASrating-4.67).

5. C.S. DHANAI **& SHAYMA PARVEEN (2021)**Assessing Allelopathic Potential of Aonlaon Germination and Growth of Two Traditional Crops in Pot Culture. **Frontiers in Crop Improvement 9 : 382-385 .Special Issue-I** (NAAS rating-4.67).
6. **SHAYMA PARVEEN** & VINIT KUMAR **(2020)** Effect of Bio-Fertilizer on Growth and Nutrient Uptake of *Acacia nilotica* L. Seedlings under Nursery Conditions**. Research Journal of Agricultural Sciences (An International Journal) 11(5):1005-1009.** (NAAS rating-4.50)
7. S.HASHMI, M.HASHMI AND **SHAYMA PARVEEN (2020)** Effect of AM fungi, PSB, Rhizobium and chemical fertilizers on growth and yield of Pea (Pisum sativum). **Journal of natural resources and development 15 (1): 51-56.** (NAAS rating-3.77)
8. ASHA RANI, NARESH KUMAR, ASHA RAM, INDER DEV, A.R. UTHAPPA, ASHOK SHUKLA & **SHAYMA PARVEEN (2019)** Effect of growing media and arbuscular mycorrhiza fungi on seedlinggrowth of ***Leucaena leucocephala*** **(Lam.) de Wit. Indian J. of Agroforestry 21 (2) : 22-28.** (NAAS rating-5.19)
9. SHAHNASHI HASHMI, DELIP KUMAR, MEHJABI HASHMI, **SHAYMA PARVEEN** (2019)Evaluation of Trichoderma Species against Fusarium Oxysporum F. Sp. Ciceris for Integrated Management of Chick Pea Wilt. **AJANTA. 8(1):87-93. (UGC listed)**
10. ANOOP KUMAR, C.S. DHANAI, **SHAYMA PARVEEN &** DHEERESH **S**AMADHIYA, **(2011)** Soil properties and biomass production under neem and babool based agroforestry system**. Flora and Fauna, 17(1) (Special Issue): 96-99. (Naas Rating-4.34/ UGC listed)**
11. D. **S**AMADHIYA **SHAYMA PARVEEN,** C.S. DHANAI**,**C.B. SINGH & G.S. PANWAR **(2011)Effect of *Acacia nilotica* & *Mangifera indica*** on Soil Fertility & Productivity ofWheat Crop. **Flora and Fauna 17(1):59-63. (Naas Rating-4.34/ UGC listed)**
12. MAHIPAT SINGH, **SHAYMA PARVEEN** & C.S. DHANAI (**2012)** Evaluation of Indian mustard (*brassica juncea* l.) growth, seed yield and seed quality under various levels of nitrogen and sulphur fertilization in Bundelkhand region. **Progressive Research:An International Journal 6(2):33-37. (NAAS Rating- 3.78)**

Awards/Honours/Distinctions:

1. **Excellence in Teaching Award (2017) - Agricultural Technology Development Society,Ghaziabad (U.P.)**
2. **Young Scientist Award (2020)- Society For Scientific Development in Agriculture &Technology,Meerut (U.P.)**

LIFE MEMBERSHIP IN PROFESSIONAL SOCIETIES

1.Indian Society of Agroforestry
2.Range Management Society of India
3.Society For Scientific Development in Agriculture & Technology
4.Centre for Advanced Research in Agricultural Sciences-RJAS

Dr. Anjali Tiwari

Designation: Assistant Professor (Agroforestry)

Mobile: 8209201579

E-mail:anjalitiwari2807@gmail.com

Education: Education: B.Sc., RMLAU, Ayodhya (2010); M.Sc. (Agroforestry) ANDUAT, Ayodhya (2012); Ph.D. (Agroforestry) ANDUAT, Ayodhya (2016)

Field of specialization/ Research Interests:

1. Agroforestry and silviculture
2. Carbon sequestration & Climate change
3. Nursery management
4. Plantation management

Projects accomplished:

None

Ongoing Projects:

None

Selected Research Publications:

1. **Anjali Tiwari**, S.K. Verma and O.P. Rao. 2015. Effect of fertilizers on *curcuma longa* L. (turmeric) growth under agri-silvi-horti system in sodic soil. *Indian Forester*. 141(2): 183-188. (**NAAS rating: 4.5**)
2. **Anjali Tiwari** and O.P. Rao.2015. Tree growth, litter fall and leaf litter decomposition of *Casuarina equisetifolia* base Agri-silviculture system. Biotech Today, 5(1):28-33. (**NAAS rating: 4.15**)
3. **Anjali Tiwari** and O.P. Rao. 2015. Litter fall production and nutrient composition in *Casuarina equisetifolia* base Agri-silviculture system in sodic land. Annals *of Horticulture*,8(2): 163-168 (**NAAS rating: 4.2**).
4. Vikas Kumar and **Anjali Tiwari**. 2017. Importance of Tropical Homegardens Agroforestry System. *Journal of Current Microbiology and Applied Sciences*. Vol. 6(9): 1002-1019 (**NAAS rating: 5.38**).
5. Vikas Kumar, **Anjali Tiwari** and Desai, B.S. 2018. Patterns of floristics and biodiversity of woody angiosperms of Purna Wildlife Sanctuary, Mahal, Dang district, Gujarat, India. *Indian Journal of Ecology*. **45**(2): 260-265 (**NAAS rating: 5.79**).
6. Vikas Kumar, **Anjali Tiwari** and A.P. Garg 2019. An efficient approach towards the bioremediation of heavy metal pollution from soil and aquatic environment: An overview. In: Gautam, A. and Pathak, C. (Eds), **Contamination in Soil Environment**, Astral publication, New Delhi, pp-57-73.

7. Vikas Kumar, **Anjali Tiwari**, Tak, P.K. and Raut, S. 2017. Practical Manual of Forest Mensuration. Agri-Biovet Press, New Delhi.
8. Vikas Kumar, **Anjali Tiwari**, 2018. Practical Manual of Nursery Management. Agri-Biovet Press, New Delhi.
9. **Anjali Tiwari**, S.K. Verma and A.K. Saxena. 2013. Usar bhumi me krishi-vaniki-uddhyaniki paddhti ke antargat haldi ka uatpadan. Puranchal Kheti, NDAUT, Faizabad, 23(1): 10-12.
10. S.K. Verma, O.P. Rao and **Anjali Tiwari**. 2015. Purvi Uttar Pradesh me Poplar ki kheti. Puranchal Kheti, NDAUT, Faizabad, 25(2): 13-14.
11. Vikas Kumar, **Anjali Tiwari** and Ashwin, S. 2017. *Couroupita guianensis* Aubl: A potentialMedicinal tree. *Van Sangyan*, 4(10): 30-34.**Anjali Tiwari**, Vikas Kumar and Hoshiyar Singh. 2021. An overview of Organic Farming situation in India. *Van Sangyan*, 8(4): 15-20.

Awards/Honours/Distinctions:

1. **Best Performance Award** in "Post Graduate studies" in, First U.P. Agricultural Science Congress" organized at NDUAT, Faizabad, Uttar Pradesh from 19-20 August 2013.
2. **I20R-Promising Educator Award 2017** by International Institute of Organized Research, Australia for outstanding contribution in the field of **Agroforestry** on 21 August, 2017.
3. **Best Doctoral Thesis Award** given by Society for Scientific Development in Agriculture and Technology, Meerut during International Conference on Global Research Initiatives for Sustainable Agriculture & Allied Sciences will held on 28-30 October 2018.

DR. ASHISH KUMAR SINGH
Designation: Assistant Professor (Vegetable Science)

Mobile: 9415577639

E-mail: aksingh7639@gmail.com

Education: B.Sc. (Ag.), ANDUAT, Kumarganj (2014); M.Sc. Hort. (Vegetable Science), BAU, Sabour (2016); Ph.D. (Vegetanble Science), GBPUAT, Pantnagar, Uttarakhand (2020)

Field of specialization/ Research Interests:

1. Vegetable crop improvement and varietal evaluation of Tomato, Okra, Pointed gourd, Water melon, Muskmelon, Radish, Clusterbean, Amaranthus and Coriander etc.
2. Resistance breeding to biotic & abiotic stresses
3. F_1-hybrid development
4. Mutation breeding

Projects accomplished: None

Ongoing Projects: None

Selected Research Publications:

1. **Ashish K. Singh**, S S Solankey, Meenakshi Kumari and Neeraj Singh (2019). Morpho-chemical quality improvement in tomato through heterosis breeding. *Indian Journal of Agricultural Sciences*. 89(8): 1251-1255.
2. **Ashish K. Singh**, S. S. Solankey, Shirin Akhtar, Preeti Kumari and Jagdeep Chaurasiya (2018). Correlation and Path Coefficient Analysis in Tomato (*Solanum lycopersicum* L.). *International Journal of Current Microbiology and Applied Sciences.* 7: 4278-4285.
3. **Ashish K. Singh,** Dhirendra K. Singh, NK Singh, ML Kushwaha and SK Maurya (2020). Genetic analysis in okra under *Tarai* region of Uttarakhand. *International Journal of Chemical Studies*. 8(1): 2767-2770.
4. **Ashish K. Singh,** Dhirendra K. Singh and Neeraj Singh (2020). Estimation of genetic component of okra for yield and its contributing traits. *RASSA Journal of Science for Society* 2(2): 105-108.
5. Meenakshi Kumari, S S Solankey, D P Singh, **Ashish K. Singh** and Manoj Kumar (2020). Phytochemical diversity in okra (*Abelmoschus esculentus*) genotypes. *Indian Journal of Agricultural Sciences*. 90(8): 1214-1520.
6. Meenakshi Kumari, S S Solankey, Kuldeep Kumar, Manoj Kumar and **Ashish K Singh** (2019). Implication of Multivariate Analysis in Breeding to Obtain Desired Plant Type of Okra [*Abelmoschus esculentus* (L.) Moench]. *Current Journal of Applied Science and Technology*. 36(4): 1-8.

7. Preeti Kumari, R B Verma, Nisha Rani, **Ashish K. Singh**, Amba Kumari (2018). Diversity in phytochemical composition of bitter gourd (*Momordica charantia* L.) genotypes based on principal component analysis. *International Journal of Chemical Studies*. 4: 36-42.

8. Saurabh Bhatt, Dhirendra Kumar Singh, Leela Bhatt, **Ashish Kumar Singh** and Sandeep Yadav (2019). Genetic divergence studies in brinjal (*Solanum melongena* L.) under *Tarai* conditions of Uttarakhand. *International Journal of Chemical Studies*. 7(4): 1456-1459.

9. Meenakshi Kumari, Saurabh Tomar, Manoj Kumar, D P Singh and **Ashish K Singh.** (2019). Path coefficient analysis among different diverse okra *(Abelmoschus esculentus L. Moench)* genotypes. *International Archive of Applied Sciences and Technology. 10 (1): 187-192.*

10. Neeraj Singh, Dhirendra K Singh, **Ashish K Singh** Ankit Panchbhaiya and Sandeep Yadav. (2021) Estimation of combining ability and gene action for yield and its contributing traits in okra [*Abelmoschus esculentus* (L.) Moench]. *Vegetable Science* 48(1): 67-72.

11. Ankit Panchbhaiya, Dinesh Kumar Singh, Lavlesh Yadav, Sandeep Yadav and **Ashish Kr Singh.** (2020). Estimation of heterosis for yield and yield related traits in tomato (*Solanum lycopersicum* L.) under polyhouse conditions. *Vegetable Science* 47(2): 230-237.

Awards/Honours/Distinctions:

1. **Best Poster Award** by presenting a poster on "Potential source of resistance to yellow vein mosaic virus (YVMV) disease in okra" in International Conference on "Sustainable Agriculture Development in Changing Global Scenario" organised by Royal Association for Science-Led Socio-Cultural Advancement at BHU, Varanasi during 11^{th} – 13^{th} October 2019.

2. **Best Oral Award** by Royal Association for Science-Led Socio-Cultural Advancement at BHU, Varanasi during 11^{th} – 13^{th} October 2019.

Dr. Jagveer Singh

Designation: Assistant Professor (Fruit Science)

Mobile: 9915949698

E-mail:jagveersinghhort@gmail.com

Education: B.Sc., R.B.S. Agra (2011); M.Sc., ANDUAT, Ayodhya (2013); Ph.D., PAU, Ludhiana (2017)

Field of specialization/ Research Interests:

1. Crop improvement and rootstock/ varietal evaluation of citrus and dragon fruit
2. Molecular fruit breeding
3. Fruit production technology

Projects Submitted: 02

Guiding M.Sc. Students: 02

Selected Research Publications:

1. Gaikwad, P. N., Sharma, V., **Singh, J*.**, Sidhu, G. S., Singh, H., & Omar, A. A. **(2023)**. Biotechnological advancements in Phytophthora disease diagnosis, interaction and management in citrus. **Scientia Horticulturae,** 310, 111739. **(IF 4.34)**

2. Verma P, **Singh J**, Sharma S and Thakur H **(2022)** Phenological growth stages and growing degree days of peach [*Prunus persica* (L.) Batsch] in sub-temperate climatic zone of North-Western Himalayan region using BBCH scale. **Annals of Applied Biology**, 1–11. https://doi.org/10.1111/aab.12815. **(IF 2.77)**

3. Pandey K, Rattanpal HS, Sidhu GS and **Singh J (2022)** Tree Morphology, Yield Efficiency and Fruit Quality of Kinnow Mandarin (*Citrus Nobilis* Loureiro × *Citrus Deliciosa* Tenora) Budded on Different Rootstocks in The North-Western Region of India. **Applied Ecology And Environmental Research**. 20(3):2077-2093. **(IF-0.71)**.

4. Sidhu GS, Rattanpal HS, Arora A and **Singh J (2022)** Effect of chemical mutagens and Phytophthora culture filtrate on survival and plant regeneration from callus of *Citrus jambhiri* lush. **Fruits**. 77(4) 1-9., doi.org/10.17660/th2022/019**(IF-0.8)**.

5. **Singh J**, Sharma S, Kaur A, Vikal Y, Cheema AK, Bains BK, Kaur N, Gill GK, Malhotra PK, Kumar A, Sharma P, Muthusamy V, Kaur A, Chawla JS and Hossain F **(2021)** Marker assisted pyramiding of lycopene ε cyclase, β carotene hydroxylase1 and opaque2 genes for development of biofortifed maize hybrids. doi.org/10.1038/s41598-021-92010-8 **Scientific Reports** https://doi.org/10.1038/s41598-021-92010-8 **(IF-4.38)**.

6. Rajput P, Thakur A, Singh H, **Singh J**, Kaur S, Koulagi R and Pathak D **(2021)** Screening of peach rootstock hybrids for resistance to root-knot nematode. **Indian J. Horti.** 78(2): 134-141 **(IF-0.16)**.

7. **J. Singh**. R. Singh, H.S. Dhaliwal, G.S. Sidhu, A. Thakur and P. Chhuneja**(2021)** Morpho-genetic diversity in zygotic populations derived from Rough lemon (*Citrus jambhiri* Lush.) and their tolerance against Phytophthora. **Fruits** 76(5), 236–247. **(IF-0.8)**.

8. **Singh J**, Dhaliwal HS, Thakur A, Sidhu G, Chhuneja P and Gmitter FG **(2020)** Optimizing recovery of hybrid embryos from interspecific citrus crosses of polyembryonic Rough lemon (*Citrus jambhiri* Lush.). **Agronomy.** 10, 1940; doi:10.3390/agronomy10121940. **(IF-3.43)**

9. Kaur K, Dhuvan N, **Singh J**, Kaur G and Vikal Y **(2020)** Computational identification of maize miRNA and their gene targets involved in biotic and abiotic stresses. **Journal of Biosciences**, DOI: 10.1007/s12038-020-00106-6-45. **(IF-1.83)**
10. Kaur R, Kaur G, Vikal Y, Gill GK, Sharma S, **Singh J,**Kaur G, Gulati A, Kaur A and Chawla JS **(2020)** Genetic enhancement of essential amino acids for nutritional enrichment of maize protein quality through marker assisted selection. **Physiology and Molecular Biology of Plants**. doi.org/10.1007/s12298-020-00897 **(IF-2.39)**
11. **Singh J**, Dhaliwal HS, Thakur A, Sidhu G, Arora A and Devi I **(2020)** In vitro leaf inoculation as an early screening test for Citrus rootstock hybrids for Phytophthora root rot. **Fruits**. (75(3), 104–114). **(IF-0.8)**
12. **Singh J**, Dhaliwal HS, Thakur A, Sidhu GS, Chhuneja P and Pandey K **(2020)** Ex vitro recovery of rough lemon (Citrus jambhiri) hybrids and identification with SSR markers. **Indian Journal of Agricultural Sciences** 90(4), 823–830. **(NAAS rating-6.21)**
13. Devi I, Singh H, Thakur A and **Singh J(2018)** Optimization of pollen storage conditions for low chill peach cultivars. **Indian J. Hort.** 75(4): 560-566. **(IF-0.16)**
14. **Singh J**, Dhaliwal HS, Thakur A, Chhuneja P, Sidhu GS and Singh R **(2017)** Morphological and genetic diversity in citrus genotypes to substantiate rootstock breeding for root rot resistance. **Indian J. Horti.** 74(3):326-333. **(IF-0.16)**

Awards/Honours/Distinctions:

1. Fourgermplasmsof maize (QßLM11(INGR22014),QßLM12(INGR22015),QßLM13(INGR22016)andQßLM14 (INGR22017)) registered by **PlantGermplasm Registration Committee of ICAR inNBPGR-ICARNew Delhi**on29thMarch2022.
2. Awarded 2021 travel by MDPI-Horticulturae to attend IX International Scientific and Practical Conference on Biotechnology in Bangkok, Thailand 2021.
3. Awarded scholarship for the Summer Program in Agriculture: Genetic Engineering andBreeding, July 11 to August 10, 2016 at The Hebrew University of Jerusalem, Israel, funded by The Council for Higher Education, the Governmentof Israel.
4. Award an International Travel Grant to attend International Citrus Congress (2016) at Brazil fundedDBT/CTEP/02/201601103.
5. Award a Student Grant (Registration Fee) to attend International Citrus Congress (2016) at Brazil funded by International Society of Citriculture,California.
6. Awarded travel grant to attend Summer Program at Israel, Funded by Dr. G S KhushFoundation, PAU, Ludhiana,Punjab (India).

CURRICULUM VITAE OF Dr. ATUL YADAV

PERSONAL INFORMATION

Name : Dr. Atul Yadav

Designation : **Assistant Professor**
Department of Fruit Science
College of Horticulture and Forestry,
Acharya Narendra Deva University of Agriculture and Technology Kumarganj, Ayodhya (U.P.)

Father`s Name : **Shri Shambhu Nath Yadav**

Date of Birth : **Feb. 07, 1995**

Address : **Village- Kamas, Post- Gondey, District.- Pratapgarh**

(U.P.)Contact No. : **+91-9795973121, 9793909496**

E-mail Id : ***atulnduat15@gmail.com***

ACADEMIC QUALIFICATIONS

Sr. No.	Degree	Name of the Institution/University	Year of Passing	Division
1.	**Ph.D. Horticulture**	Acharya Narendra Deva University of Agriculture and Technology Kumarganj, Ayodhya (U.P.)	2020	First
2.	**M.Sc. (Ag.) Horticulture**	Acharya Narendra Deva University of Agriculture and Technology Kumarganj, Ayodhya (U.P.)	2017	First
3.	**B.Sc. Horticulture**	SHIATS- DU, Allahabad, (U.P.)	2015	First
4.	**Intermediate**	Allahabad Agriculture Intermediate Institute , Naini, Allahabad Uttar Pradesh (UP Board).	2011	First
5.	**Matriculation**	Ethel Higginbottom School, AAI, Naini Allahabad (ICSE)	2009	First
6.	**NET (Fruit Science)**	ICAR-ASRB	Qualified 2019	

Experience Details

S.No.	Post held	From	To	Nature of duties in brief
1.	Assistant Professor, Fruit Science Department of Horticulture ,SHUATS	10 Sept 2021	25 Oct 2022	Teaching , Research and Extension
2.	**Assistant Professor** Horticulture, FASAI,Rama University Kanpur	28 Dec 2020	09 Sept2021	Teaching , Research and Extension

3.	**Guest Faculty** Department of Post- Harvest Technology CHF, A.N.D.U. T.Ayodhya	28 Jan 2020	31 July 2020	Teaching , Research and Extension
4.	Under Agri. Clinic & Agri-Business Management 15 Expert Lecture Delivered at CTED Amethi			

OTHER ACTIVITY (TRAINNING PROGRAMME)

Participation in Co-curricular activities and distinctions achieved along with evidenceTraining:

I. One week vocational training in Soil Testing Laboratory CORDET Phulpur, Allahabad From 04- 06-2012 to 10-06-2012
II. Training course on "Bio-Fertilizer" From June 03-08,2013, Directorate of Extension Education at G.B. PANT UNIVERSITY OF Agriculture &Technology Pantnagar Distt. U.S. Nagar Uttrakhand
III. Training on "Postharvest Management & Processing of Horticultural Produce"(March 17- 21,2015), ICAR-INDIAN AGRICULTURE RESEARCH INSTITUTE NEW DELHI-110012
IV. Did Training under Agri.-clinics and agri-business Centre Scheme of Govt. of India. From 23 May to 21 July 2014 at J.A.R.D.S. Moradabad UP – National Institute of Agriculture Extension Management Hyderabad
V. Participated in training programme on mushroom cultivation six days 21/07/2014 to 26/07/2014 in State Mushroom Laboratory – State Institute of Food Processing Technology Aliganj Lucknow
VI. Did State Level Training on Basics of Beekeeping from 26/10/2014 to 01/11/2014 conducted for overall Development of Beekeeping in India – Sponsored by : National Bee Board
VII. Training on Development of Functional Food Products through Extrusion Processing (November5 to 7, 2015) organized by the Division of Food Science and Postharvest Technology. ICAR- IARI NEW DELHI
VIII. One day training programme on ' Waste Utilization of Banana" held on 23rd October, 2013 organized by Department of horticulture SHIATS- Allahabad
IX. Training from 10th Jan 2015 to 10th Feb 2015 in General landscaping, garden maintenance, Turf growing and management, orientation in Seasonal flowering plants and production, marketing of product organized by green corners at Munireka New Delhi
X. Training on Organic Agricultural Management organized by Uttrakhand Organic Production Council held on 08-10 June 2015 at Majkhali, Almorah –Uttrakhand.
XI. Workshop on Recent Technologies for food Security and Rural Development. Allahabad
XII. Attended training sessions on Climate-Smart Agriculture &Soil in 2nd International conference on Food & Agriculture 2018 held on 29th & 30th – Mar - 2018 at Dhanbad Jharkhand
XIII. Participated in Horti- Entrepreneurship workshop -2018 on nursery value Addition, Protected cultivation Organic Farming and Tissue Culture at ICAR-CISH, Rehmankhera Lucknow on18- 08-2018.
XIV. Attended Tanning on ''Certificate Courses on Organic Farming" from 30th April to 29 May 2019 at National Centre Of Organic Farming, Ghaziabad.
XV. One Week Online Training Course on '' Smart Handling and Processing Systems of

Horticultural crops" (CAAST-CSAWM),Mahatma Phule Krishi Vidyapeeth, Rahuri(Maharashtra State) Under (NAHEP)-(ICAR) During 09-14 May, 2020

Seminar/conference /Symposium:

1. Attended one One Day National workshop on " Post Harvest Management and Value Additionof Horticultural commodities"
2. Attended the Lecture on " Bio-Fertilizer & Bio-Pesticides " organized by the Department of soil Science and Allahabad Chapter of Indian Society of Soil Science, IARI, New Delhi on 20th November 2014
3. National Seminar on Protected Cultivation of Horticultural crops and Value Addition 29th- 30thNovember 2013
4. Attended PPV&FRA (Ministry of Agriculture, GOI) Sponsored Awareness Training Programme on " Protection of Plant Variety and Farmers Right in Relation to Conservation of Plant Varieties" UP SHIATS , Allahabad on 11th February 2013.
5. Attended the Special guest lecture on "Coffee Cultivation in India" Department of HorticultureSHIATS on 25th November, 2014.
6. Attended one day Training programme on " Organic Certification Horticultural Crops"Organized by Society Horticulture SHIATS Collaboration with Control Union Inspection India Pvt. Ltd. Mumbai, India on 25th April 2013
7. Attended One Day Workshop on E-Content: The Newly Emerging Technique for Teaching through Web on 2nd may -2013
8. Participated in The National Workshop on "My Earth My Duty " jointly Organized by National Service Scheme Units, SHIATS and Ministry of Youth Affairs & Sports, Government of India Held at SHIATS – Allahabad on August 21st , Sponsored by Zee Media Corporation Limited.
9. Attended National Conference on " Emerging Trends in Agriculture Sciences and its Impact on Sustainable Livelihood" 25-26 February 2017(SSSD Meerut UP)
10. Attended a National Seminar on "Recent and Future Prospects in Sustainable Agriculture with Reference to Climate Change" 18-19 March 2017.
11. Attended a International Conference on Advanced in Agriculture and Applied Science for Promoting Food Security" 13th-15th May, 2017.
12. Attended a International Conference on Advances in Agriculture and Biodiversity Conservation for Sustainable Development (ABCD-2017) 27-28 October, 2017.
13. Attended a National Symposium on "IPRs in Agriculture Research" August 30-31,2017.
14. Participated " National Conference on Promoting & Reinvigorating Agri.-Horti., Technological Innovations, PRAGATI-2017 11-12 November 2017
15. National Seminar on Farmer centric Cinema; October 14-16, 2017 ICAR-IISR ,Lucknow
16. National Seminar on Transforming Agriculture to Doubling of Farmer Income February 10-11,2018, Lucknow

Patent Published

1. Title of the invention : Conversion Of Sugarcane Leaves Into Useful Products; ApplicationNo.202111013258 A ; Publication Date : 02/04/2021; Go to link: Part-1.pdf (ipindia.gov.in)

PUBLICATIONS

Research Papers in Peer Reviewed Journals:

S. No.	Research Publications in referred journals
1.	**Atul Yadav**, Bhanu Pratap, Shivam, Ashwani Kumar and Angelina Patro Assess the effect of micronutrients and plant growth regulators on quality parameters of strawberry cv. *Chandler The Pharma Innovation Journal* 2017; 7(1): 303-305.
2.	Budha Krishna Bahadur, **Dr. Atul Yadav**, Dr. Sharvan Yadav, Dr. Chandra Shekhar and Dr. Satendra Kumar(2021) Effect of micro nutrient and FYM on growth and yield of cucumber (Cucumis sativus L.) under plastic house The Pharma Innovation Journal 10(9): 1207- 1211
3.	Rajendra Shahi, **Dr. Atul Yadav**, Dr. Chandra Shekhar and Dr. Satendra Kumar(2021) Effect of different doses of nitrogen on growth and yield of brinjal (Solanum melongena L.) Cv. Pusa purple long Kanpur, India The Pharma Innovation Journal 10(9): 1228- 1230
4.	Dilli Dhakal, **Atul Yadav**, Sharvan Kumar, Dr. Chandra Shekhar and Dr. Satendra Kumar(2021) Comparative study of different sources of nutrients suitable for organic off season cucumber production The Pharma Innovation Journal ; 10(9): 1223- 1227
5.	Prakash Duwadi**, Dr. Atul Yadav**, Sarita Koirala, Vinay Joseph Silas, Dr. Chandra Shekhar and Dr. Satendra Kumar(2021) Utilization of different horticultural waste materials for vermicomposting by using Eisenia fetida in Mandhana Kanpur-UP, India The Pharma Innovation Journal 1201- 1206
6.	Subash Basnet, **Dr. Atul Yadav**, Dr. Gyanendra Kumar Singh and Dr. Chandra Shekhar(2021) Effect of 1- napthaleneacetic acid (NAA) on growth and yield of brinjal (Solanum melongena L.) Cv Pusa purple cluster Kanpur, India The Pharma Innovation Journal 10(9): 1235- 1238
7.	Sarita Koirala, **Dr. Atul Yadav,** Prakash Duwadi, Dr. Chandra Shekhar and Dr. Satendra Kumar(2021) Efficiency of different insecticides against major insect pest of summer squash (Cucurbita pepo) in Mandhana Kanpur, UP, India. The Pharma Innovation Journal 10(9): 1185-1192
8.	Yatendra Kumar Singh, SS Singh, VM Prasad, Raj Kumar Singh and **Atul Yadav** Assess the effect of different levels of micronutrient on fruitset and yield of guava (*Psidium guajava* L.)" cv Allahabad Safeda**.** *Journal of Pharmacognosy and Phytochemistry* 2017; 6(6): 1470-1475.
9.	Sneha Singh, Bhanu Pratap, **Atul Yadav** and Shivam 2017. Assess the effect of pruning and plant growth regulators on growth, flowering and fruiting of ber tree. *Journal of Pharmacognosy and Phytochemistry* **6(5):**735-738.
10.	Sonali Singh, AK Singh, **Atul Yadav**, Shivam and Harikesh .Assess the effect of different combinations of herbicides on weed population and economic feasibility of treatments in latesown wheat crop. *Journal of Pharmacognosy and Phytochemistry* 2017; 6(5): 648-651
11.	Bindhya Prasad, Ashok Kumar, Dileep Kumar Tiwari, **Atul Yadav** and Harikesh Effect of integrated nutrient management on vegetative growth and economics of German chamomile (*Matricaria chamomilla* L.) *International Journal of Chemical Studies* 2018; 6(3): 2595-2597
12.	Dileep Kumar Tiwari, Sanjay Pathak, **Atul Yadav**, Bindhiya Prasad and Bhanu PratapThe effect of pruning, organic and inorganic nutrition on quality characters of mango cv. Amrapali, *International Journal of Chemical Studies* 2018; 6(3): 2598-2601
13.	Sharvan Kumar, Himanshu Trivedi, Rahul Sah, Amit Kumar Verma and **Atul Yadav** Effect of different bio-enhancers on growth & yield of cauliflower (*Brassica oleracea* L. Var. *Botrytis) Journal of Pharmacognosy and Phytochemistry* 2018; SP1: 769-772
14.	Dileep Kumar Tiwari, Bhanu Pratap, Sanjay Pathak and **Atul Yadav** The effect of pruning, organic and inorganic nutrition on flowering and fruiting behavior of mango CV. Amrapali *Journal of Pharmacognosy and Phytochemistry* 2018; SP1: 1585-1589
15.	Yashwant Patel, **Atul Yadav**, Bhanu Pratap, Shivam and Dileep Kumar Tiwari Effect of foliar spray of micro nutrients on yield and quality of Aonla (*Emblica officinallis* Gaertn. L.) cv. NA-6 *Journal of Pharmacognosy and Phytochemistry* 2018; SP1: 1659-1662

16.	Dheeraj Yadav, AL Yadav, Abhinav Kumar, **Atul Yadav**, Satish Yadav and Sharavan Kumar Foliar feeding of nutrients on fruit quality and yield of mango (*Mangifera indica* L.) *cv*. Amrapali *Journal of Pharmacognosy and Phytochemistry* 2018; SP1: 2129-2131
17.	Rajat Gandhi, Sandeep Singh and **Atul Yadav**, Studies on effect of different level of NPK and Biofertilizers on Growth & Yield of cabbage (Brassica oleracea var. Capitata), Vol.VIII, Issue Special (E), August2018 *Multilogic in Scince* Page no.254-257
18.	**Atul Yadav***1 , Bhanu Pratap1 , Vimlesh Kumar2 , Sanjay Pathak3 and AkhileshKumar Yadav4ASSESS THE EFFECT OF MICRONUTRIENTS AND PLANT GROWTH REGULATORS ON VEGETATIVE GROWTH AND FRUIT ATTRIBUTES OF STRAWBERRY VOL. X, ISSUE XXXIV, JULY 2020 *MULTILOGIC IN SCIENCE*
19.	Anuj Kumar, Sanjay Pathak, **Atul Yadav***, Vimlesh Kumar, Akhilesh Kumar Yadav and Divya Singh Studies on Qualitative Traits and Effect of Annatto Colour on Beverages of Guava Pulp cv. Lucknow-49 2020;Int.J.Curr.Microbiol.App.Sci (2020) 9(10): xx-xx
20.	Sneha Singh1 , Bhanu Pratap1 , Vimlesh Kumar1 , Govind Vishwakarma1 , AtulYadav1* , Dheeraj Yadav1 and Abhinav Kumar (2021) Assess the Effect of Integrated Nutrient Management on Vegetative Growth and Quality of Aonla cv. Francis *Int.J. Curr. Microbiol. App. Sci* 10(02): 3340-3351
21.	**Atul Yadav*,** Sanjay Pathak and Vimlesh Kumar , (2021) Genetic Diversity Assessment for Horticultural, Fruit Characters, Yield and Quality Traits among Jackfruits Genotypes. *Int.J. Curr. Microbiol. App. Sci*10(02): 3333-3339
22.	**Atul Yadav1,** Dr. Sanjay Pathak2, Dr. Vimlesh Kumar3, Pradip Kumar Saini 4, Dr. O. P. Rao5 , Dr. G. C. Yadav6**,** Dr. R. K Yadav7 (2021)EVALUATION OF JACKFRUIT GENOTYPES FOR QUALITATIVEAND YIELD TRAITS UNDER EASTERN UTTAR PRADESH, *MULTILOGIC IN SCIENCE, VOL. X, ISSUE XXXV*

Books (Published by Publishers):

S. No.	Name of publication	Authors	Year	Publisher
1.	Role of PGRs and Micronutrients on Production of Strawberry **ISBN-978-93-86048-86-8**	**Atul Yadav** Dr.Bhanu Paratap	2018	GS Publisher Distribution Naveen Sharda, Delhi
2.	Endling Conference Souvenir cum Lead Proceeding, Book as Editorial board member	**Atul Yadav**	2018	Endling Conferences
3.	Model Short and Essay Type Questions and Answers in Horticulture **ISBN-978-3-96492-043-0**	Abdul Majid Ansari, Vinod Godi, Desh Pal Singh, **Atul Yadav,** Anil Kumar Yadav, Jeevan Lal Nag	2018	Weser Books Publications
4.	Innovative Approach in Agriculture Farming **ISBN-978-3-96492-095-9**	Dr. Joginder Singh , Dr. Rashmi Nigam, Dr. Wajid Hasan, Dr. Maya Kumari, Mr. Heera Lal, **Mr. Atul Yadav** and Mr. Sachin Kumar	2018	Weser Books
5.	(MAP) A MODERN TECHNOLOGY OF MEDICINAL, AROMATIC & PLANTATION CROPS **ISBN-978-93-87852-41-9**	Abhinav Kumar, **Atul Yadav,** Dheeraj Yadav	2019	Power Publishers
6.	Recent Trends of Horticulture **978-93-91872-03-8**	**Dr Atul Yadav**, Dr Abhinav Kumar, Mr Rohit Kumar, Dr Sharwan Kumar and Dr Dheeraj Yadav	2021	Learning Media Publication

MANUALS Manuals (Published by Publishers/Institute)

S.No.	Name of publication	Authors	Year	Publisher
1.	Advances and Value Addition in flower crops With **ISBN-9783964920638**	Sachi Gupta, Sanjay Pathak, and **Atul Yadav**	2018	Weser Books

2.	Fundamentals of Horticultures With **ISBN-**	**Atul Yadav**, Dr. Vimlesh kumar, Subra Jyoti Mishra and Satish Kumar	2018	Weser book
3.	Orchard management With **ISBN-978-3-96492-066-9**	**Atul Yadav**, Sanjay Pathak, Sachi Gupta	2018	Weser book
4.	Practical manual for soil analysis With **ISBN-978-3-96492-065-2**	Sanjay Kumar, **Atul Yadav** and Ajit Kumar	2018	Weser book
5.	A Practical Manual on Fundamentals of Horticulture & Production Technology of Fruit crops **978-93-91872-08-3**	Dr Bhanu Pratap , **Dr Atul Yadav** & Dr Jagveer Singh	2021	Learning Media Publication

BOOK CHAPTERs

Chapters in Books:

S. No.	Name of publication	Authors	Year	Publisher
1.	Petha-Not Just a Processed Food Product	Arghya Mani, Subrajyoti Chatterjee and Atul Yadav	2019	Trends & Prospects in Processing of Horticultural crops Today & tomorrow's Publisher New Delhi
2.	Postharvest Handling of Mango	**Atul Yadav** and Abhinav Kumar	2020	**Advances in Horticultural Crops** Weser Books Zittau, Germany 978-3-96492-079-9
3.	Plant Growth Regulators (PGR) in Nursery	Abhinav Kumar, **Atul Yadav**, Dheeraj Yadav, Sneha Singh, Sachi Gupta, Ravi Pratap Singh,Harendra and Archit Singh	2020	**Advances in Horticultural Crops** Weser Books Zittau, Germany 978-3-96492-079-9
4.	RECENT DEVELOPMENT IN POMEGRANATE	Dheeraj Yadav, Abhinav Kumar, **Atul Yadav** and Sneha Singh	2020	**Advances in Horticultural Crops** Weser Books Zittau, Germany 978-3-96492-079-9

HINDI ARTICLEs

Popular articles in magazine:

ABSTRACTs

Abstract:

S.No.	Date and Year	Name of Seminar	Tittle of Abstract	Author	Page No.

1.	11-12 Nov /2017	Promoting & Reinvigorating Agri-Horti, Technological Innovations (PRAGATI-2017)	Effect of pruning intensity and plant growth regulators on yield of ber (Zizyphous mauritiana lamk)cv. Gola	Sneha Singh, bhanu pratap, **Atul Yadav** Abhinav kumar and dheeraj yadav	43-44
2.			Doubling Farmers income	**Abhinav Kumar** and Atul Yadav	49
3.			Technologies of Hi-tech Horticulture	Abhinav Kumar**,** **Atul Yadav**, Bhanu Pratap, Dheeraj Yadav and Sneha Singh	51
4.	10-11/Feb/ 2018	National Seminar on Transforming Agriculture to Doubling of Farmers Income	What is CCS (Carban Capture and Storage)	Abhinav Kumar, Ragini Mishra, Sunna Deepti and **Atul Yadav**	61
5.			Precision Nutrient Management	**Atul Yadav** And Abhinav kumar, Angelina Patro	92
6.			The Effect of Pruning, organic and inorganic nutrition on Flowering and fruiting behaviour of mango cv. Amarpali	Dillep Kumar Tiwari and Bhanu Pratap , Sanjay Pathak**, Atul Yadav**	113
7.			The Effect of Pruning, organic and inorganic nutrition on Quality characters of mango cv. Amarpali	Dillep Kumar Tiwari and Bhanu Pratap , Sanjay Pathak**, Atul Yadav**	114
8.	29-31/Marc h/2018	Endling Conference ICFA-2018	Recent Technology for Improvement of Horticulture crops	**Atul Yadav** Dillep Kumar Tiwari and Sanjay Pathak**,**	146
9.			Recent Technology for Improvement of Fruit crops	**Atul Yadav** , Dillep Kumar Tiwari and Sanjay Pathak**,**	146
10.			Chemical Manipulation for Yield and Quality in Banana	**Atul Yadav,** Dillep Kumar Tiwari and Sanjay Pathak**,**	147
11.			Influence of Environment and time of Grafting on the Clefting grafting in Guava(Psidium Guajava Linn)	Dillep Kumar Tiwari, **Atul Yadav** and Sanjay Pathak**,**	147
12.			On Farm Multiplication of Suckers and Planting Technique in Banana	**Atul Yadav,** Dillep Kumar Tiwari and Sanjay Pathak	147
13.			Studies on Vegetative and Protective Phenological events in Mango 9Mangefera Indica L.)	**Atul Yadav,** Dillep Kumar Tiwari and Sanjay Pathak	148

14.	27-28/Jan/2018	National Conference on Livelihood & Food Security	Role of Plant Growth Regulators in Propagation of Horticultural crops	**Atul Yadav,** Sanjay Pathak and Angelina Patro	103

PROFESSIONAL AFFILIATIONS

Life Time Membership in Professional Societies:

I. Uttar Pradesh Academy Of Agricultural Sciences (UPAAS) (UPCAR) Uttar Pradesh
II. Society for Scientific & Social Development, Meerut Uttar Pradesh
III. Society for Agriculture Innovation and Development Ranchi. Jharkhand
IV. Science & Tech Society for integrated Rural Improvement Thorrur- Telangana
V. Agriculture Technology Development Society (ATDS) Ghaziabad. UP

HONOURS/ AWARDS

Awards:

I. **First Rank** in Zonal fruits, vegetables, and Flower show 2015 at Company Garden Allahabad
II. **Second Rank** in Zonal fruits, vegetables and Flower show 2015 at Company GardenAllahabad
III. **PG Research Fellow Award-2015 "** Emerging Trends in Agriculture Sciences and its Impacton Sustainable Livelihood" 25-26 February 2017(SSSD Meerut UP)
IV. **Young Professional Award** Promoting & Reinvigorating Agri-Horti, Technology Innovations,PRAGATI-11th -12th Nov 2017
V. **Excellence in Research Award –** S&T SIRI Science & Tech Society for integrated ruralimprovement (S&T SIRI) PRAGATI-11th -12th Nov2017
VI. **Scientist Associate Award –**During the two days National Conference on Livelihood and foodSecurity (LFS-2018)27th -28th January 2018 Bihar
VII. **Oral Presentation Award**-ICFA 2018 Dhanbad
VIII. **Best Research Paper Award**-(DISHA-2018),11-12, August.2018 at Ranchi
IX. **Best Research Scholar Award**-(ABAS-2018)20-22 October 2018
X. **Best Oral Presentation** at (ECOASPECT) September10-11 2016
XI. **Best Poster Presentation** at (ECOASPECT) September10-11 2016
XII. **Second Position** in the National Conference on (ETAS)25-26 February 2017
XIII. **Best Oral Presentation** Certificate - PRAGATI-11th -12th Nov 2017
XIV. **1st Position in the 2nd international** conference on (ABAS-2018)20-22 October 2018
XV. Admission with Fellowship in Ph.D. Programme 2017 Narendra Deva University ofAgriculture & Technology, Ayodhya.

XVI. **<u>Dr. Kashi Nath Tiwari Best Postgraduate Thesis Award-2017 Awarded by U.P. Academyof Agriculture Sciences (UPCAR) (UPAAS) Lucknow,</u>**

XVII. Research Scholar Student Selected of Scholarship **Krishi Utpadan Mandi Parisad Faizabad,Uttar Pradesh**

XVIII. **Innovative Article Award by** AGRICULTURE & FOOD: e- Newsletter Volume (01) issue 08Date 22-08-2019

XIX. **Innovative Article Award by** AGRICULTURE & FOOD: e- Newsletter Volume (01) issue 06Date 13-06-2019

XX. **Best Article Award by** AGRICULTURE & FOOD: e- Newsletter Volume (02) issue 05

Additional Remark: Applicants may mention here any special qualification or experience, not covered above. If the space below insufficient for this purpose, please give full particulars on a separatesheet of a paper and attach it to this application form inserting here a reference to the sheetattached.

1. **Peer Reviewer Member in *MULTILOGIC IN SCIENCE Journal***
2. Reviewer Member in AGRICULTURE & FOOD: e- Newsletter
3. Cultural Committee Head -Society of Horticulture-SHIATS-DU Allahabad
4. Organizing Coordinators-at National Seminar on Livelihood &Food Security 27-28 January2018
5. Certificate of Excellence-(ICAAAS-2018)New Delhi
6. Certificate of Accomplishment-(ICAAAS-2018)New Delhi
7. Certificate of Appreciation-(ABAS-2018)Meerut
8. Rapporteur was during the "National Conference on Agri-Horti Technological Innovations,PRAGATI-2017 11-12 Nov
9. Rapporteur was during the-international conference on food & Agriculture (ICFA-2018)29-31March2018
10. Acted as Rapporteur in 2nd international conference-(ABAS-2018)20-22 Oct 2018
11. Co-Organizing members at 3rd International Conference on Global Initiatives in Agricultural and applied Sciences for Eco-friendly Environment dated 16-18 June 2019 at Tribhuvan University Kathmandu, Nepal.
12. Course Director , 15 Days Training on Up gradation of skill and Knowledge of Post harvest Management and Processing Horticultural crops

(Atul Yadav)

Dr.Kuldeep Pandey

Designation: Assistant Professor (Fruit Science)

Mobile: 9455185388

E-mail:pandeykuldeephort@gmail.com

Education: B.Sc. (Hort.), NDUAT, Kumarganj (2015); M.Sc.Hort(Fruit Science),PAU, Ludhiana (2017); Ph.D. (Fruit Science), ICAR-IARI, New Delhi (2022)

Field of specialization/ Research Interests:

1. Crop improvement and rootstock/ varietal evaluation of Mango, Jackfruit and Litchi
2. Molecular fruit breeding
3. Tissue culture & Transgenic technology
4. Fruit production technology

Projects Submitted: 02

Guiding M.Sc. Students: 02

Selected Research Publications:

1. **PandeyK,** KarthikK, SinghSK, Vinod, SreevathsaR and SrivastavM (2022) Amenability of an *Agrobacteriumtumefaciens*-mediated shoot apical meristem-targeted *in planta* transformation strategy in Mango (*Mangifera indica* L.), GM Crops & Food, 13:1, 342-354, DOI: 10.1080/21645698.2022.2141014. **(NAAS rating-9.07)**.
2. **Pandey K,** Rattanpal HS, Sidhu GS and Singh J **(2022)** Tree Morphology, Yield Efficiency and Fruit Quality of Kinnow Mandarin (*Citrus Nobilis* Loureiro × *Citrus Deliciosa* Tenora) Budded on Different Rootstocks in The North-Western Region of India. **Applied Ecology and Environmental Research**. 20(3):2077-2093. **(NAAS rating-6.71)**.
3. Prusty R, Kumar R, **Pandey K**, Yadav P and Rajan R **(2022)** Assessment of post-harvest quality of guava cv. Pant Prabhat under different canopy heights and planting densities. **Agricultural Mechanization in Asia, Africa and Latin America.** Volume 53, Issue 05, May (**NAAS rating-6.14**)
4. **Pandey K,** Rattanpal HS, Rajan R, Sidhu GS, Singh J and Singh S **(2022)** Effect of different rootstocks on physiochemical parameters and leaf nutrient status in kinnow mandarin. **Agricultural Mechanization in Asia, Africa and Latin America.** Volume 53, Issue 08, August (**NAAS rating-6.14**)
5. RajanR,Mirza AA and **Pandey K(2022)**Fruit Based System- A viable alternative for carbon sequestration. Ecology Environmentand Conservation. 28 (1) 263-265. **(NAAS rating-5.41)**
6. **PandeyK,** Kishor A, SinghA, Singh SK, Sreevathsa R, Vinod and Srivastav M**(2022)**Assessment of in-vitro regenerationability of mango genotype'**Current Advances in Agricultural Sciences-AnInternational Journal', CAAS: 09/2022, Accepted (NAAS rating-5.12)**
7. Singh J, Dhaliwal HS, Thakur A, Sidhu GS, Chhuneja P and **Pandey K(2020)** Ex vitro recovery of rough lemon (*Citrus jambhiri*) hybrids and identification with SSR markers. **Indian Journal of Agricultural Sciences** 90(4), 823–830. **(NAAS rating-6.21)**

Awards/Honours/Distinctions:

1. **Chancellors Gold Medal (2015)**(First position in university for under graduate degree programme), **ANDUAT**, Kumarganj, Ayodhya.
2. **ICAR-JRF(2015)**during M. Sc. Hort.(Fruit science) degree programme.
3. ICAR-IARI Senior Scholarship**(SRF) (2018)** during Ph. D. programme.
4. ICAR Agri Unifest -19th All India Inter Agricultural University Youth Festival(**First position in all India quiz event**)organized at SardarkurshinagarDantiwada Agricultural University, Sardarkurshinagar, Gujarat.
5. **Best Thesis Award(2019)**for M.Sc.Hort (Fruit Science)(Performance of Kinnow mandarin on different rootstocks), **DST sponsored**&organized atDepartment of Environmental Science, Bareilly College, Bareilly

PERSONAL BIODATA

Name : Dr. Sunil Kumar
Father's Name : Late Shri Pokhaee
Designation : Assistant Professor
Discipline : Floriculture and Landscaping
Qualification : Ph.D., NET
Date of Birth : 01/07/1991
Present Address : Department of Floriculture and Landscaping, ANDUAT, Kumarganj, Ayodhya-224229, Uttar Pradesh
Permanent Address : Village- Kamuwan, Post-Dhaukalganj, Tehsil-Biswan and District Sitapur-221201 Uttar Pradesh
Contact : +919625665033, +918095516682
E-mail ID : sunilfls13@gmail.com

Academic Record:

Sr. No.	Degree	Name of the Institution/University	Year of Passing	Division
1	**Ph.D. (Hort.) (Floriculture)**	Indian Agricultural Research Institute, Pusa, New Delhi, Outreached campus ICAR-IIHR, Hessaraghatta, Bengaluru.	2021	First
2.	**M.Sc. (Hort.) Floriculture**	Indian Agricultural Research Institute, Pusa, New Delhi.	2015	First
3.	**B.Sc. Agriculture**	Acharya Narendra Deva University of Agriculture and Technology, Kumarganj, Ayodhya, Uttar Pradesh.	2013	First
4.	**Intermediate**	H.R.D. Inter College, Biswan, Sitapur Uttar Pradesh (UP Board).	2009	First
5.	**Matriculation**	D.N.S. Inter College, Sidhauli, Sitapur Uttar Pradesh (UP Board).	2007	Second
6.	**NET (Floriculture)**	ICAR-ASRB	Qualified 2016	

M.Sc. Thesis Title : Studies on Photoperiodic Response in Chrysanthemum (*Chrysanthemum morifolium* Ramat.) cv. Zembla"

Ph.D. Thesis Title : Studies on crossability and white rust resistance in chrysanthemum (*Dendranthema x grandiflora* Tzvelv.)

Employment record:

Organization	Position	Duration	Place of Posting and Nature of Work
Delhi Development Authority, Ministry of Urban Develoment, Govt of India, New Delhi	Sectional Officer (Horticulture)	30.08.2018 to 07.11.2022	A) Office of Deputy Director (Hort.), Horticulture Division –VI and IV, Sheikh Sarai Phase -1, Delhi Development Authority, New Delhi - 110017 b) Maintenance of parks and nursery

Acharya Narendra Deva University of Agriculture and Technology, Kumarganj, Ayodhya, Uttar Pradesh	Assistant Professor (Floriculture and Landscaping)	09.11.2022 to Till Date	Department of Floriculture and Landscaping, College of Horticulture and Forestry, ANDUAT, Kumarganj, Ayodhya-224229

Awards/ Appreciations/ received:

1. Awarded **ICAR-JRF (245740)** in **2013** during **M.Sc. Hort. (Floriculture and Landscaping)** degree programme.
2. **ICAR-IARI senior scholarship (SRF) in 2015** during Ph.D. Programme.
3. **UGC-Rajiv Gandhi National Felloship**. (F1.17.1/2017-18/RGNF-2017-18-SC-UTT-42998) in **2017** during **Ph. D Degree** Programme.
4. ***Second prize winner*** in Quiz completion held during "Swachhta Pakhwada" programme at ICAR-IIHR from 16.10.2016 to 31.10.2016 at Bengaluru.
5. ***First prize winner*** in ***Cricket*** **event** conducted during IARI-IIHR sports meet held from 25-27 February 2017 at ICAR-Indian Institute of Horticultural Research, Bengaluru.
6. Received recognition of securing **second place** in **football** event conducted during IARI-IIHR sports meet held from 25-27 February 2017 at ICAR-Indian Institute of Horticultural Research, Bengaluru.

Member of important body:

1. Appointed as **Member** for conducting ***Bonsai and Flowers Arrangements*** for ***Value Added Courses*** vide letter No. ANDUAT/CHF/2023/-1178 dated 18/01/2023.
2. Appointed as **Member** of successful celebration of India –Mother of Democracy on 26 November, 2022 vide letter No. ANDUAT/CHF/2022/-952 dated 25/11/2022.
3. Appointed as **Member** of **campus decoration committee** during **24th convocation** which was held at ANDUAT, Kumarganj, Ayodhya vide letter No. ANDUAT-02/24th convocation/2022/-1827 dated 02/12/2022.
4. Appointed as **Member** of **Regional Fruit, Vegetable and flowers Exhibition** which was held during 17.02.2023 to 20.02.2023 at **Raj Bhavan, Lucknow** vide letter No. ANDUAT/CHF/2023/1245 dated 08/02/2023.

Research /Review Articles Publication:

1 **Kumar, S.,** Singh, M.C., Yadav, S. and Sharma, D.K. 2017. Effect of Photosynthetically Active Radiation (PAR) from LEDs on Growth and Development of *Chrysanthemum morifolium* Ramat. cv. Zembla. International Journal of Current Microbiology and Applied Sciences. 6 (9): 458-465.

2 **Kumar, S.** and Singh, M.C. 2017. Effect of photoperiod on growth characteristics in *Chrysanthemum morifolium* Ramat. cv. Zembla. Res. on Crops, 18(1):110-115.

3 Bhandari, N.S., Srivastava, R. and **Kumar, S.** 2016. Effect of growing substances on performance of lilium (*Lilium longifolium* L.) cv. Bach. The Bioscan, 11(2): 1291-1293.

4 Bhargav, V., Kumar, R., Rao, T. M., Bharathi, T. U., Dhananjaya, M. V., **Kumar, S**., Babu, K. R. and Kumari, P. 2018. Evaluation of China aster [*Callistephus chinensis*

(L.) Nees] F1 Hybrids and their Parents for Qualitative and Quantitative traits. International Journal of Current Microbiology and Applied Sciences, 7(2): xx-xx

5 **Kumar, S.,** Nimbolkar, P. K. and Tripathi, A. 2015. Nano-tech an emerging technology for safe food. Progressive Research – An International Journal, 10 (Special-III): 1635-1639.

6 Nimbolkar, P.K., Porika, H. P., **Kumar, S.** and Shiva, B. 2016. A new vista of plant bio regulator in fruit crops. The Asian Journal of Horticulture, 11(1): 218-223.

7 **Kumar, S.,** Kumar, R., Sriram, S., Aswath, C., Rao, Nair, S.A. 2021. Screening of chrysanthemum (*Dendranthema grandiflora*) genotypes for resistance to white rust (*Puccinia horiana* Henn.). Journal of Pharmacognosy and Phytochemistry, 10(2): 23-297.

Book Chapters:

1. Nimbolkar, P.K., Bhargav, V., Sangma, D., Shiva, B. and **Kumar, S.** Environmental issue related to climate change in fruit crops. Lenin Media Private Limited, New Delhi, India, 2016, 272-287.
2. Bhandari, N.S., Jatav, V., **Kumar, S.,** Neha, P., Singh, S., Murthy, B.K. and Pandav, A.k. Outlook of Horticultural Education, its potential and carrier opportunities. National Conference on Horticultural Education held on 24 September at ICAR-IIHR, Hessaraghatta, Bengaluru, Karnataka, India, 2016, 58-61.
3. Yadav, S., Abirami, K., Jerard, B.A., Damodaran, V., Swain, S., **Kumar, S.,** Dayal, B., Singh, A. and Prakash, K. Export standards of major spice crops. Director, ICAR-CIARI, Port Blair, 2018, 157-175.

Practical/Training Manual:

1. Kumar, R. and **Kumar, S.** Crop improvement and production technology of
2. Chrysanthemum. ICAR-IIHR, 2018, 21-29.

Popular Articles

1. Bhanu Murthy, K.C., Pushpavati,Y. and **Kumar, S.** Vertical farming: Future of modern agriculture. Kerala Karshakan, 2016, 4(6): 42-45.
2. Bhanu Murthy, K.C., Saidulu, Y., **Kumar, S.** and Anish, M. Polythene mulches: It's importance in horticulture crops. Kerala Karshakan, 2016, 3(9): 26-28.
3. **Kumar, S**., Bhandari, N.S., Bhargav, V., Kumari, P. and Jatav, V. Community garden: New concept for food security and healthy life. ICAR–IIHR Student Newsletter, 2016, 1(3): 2-3.
4. Jatav, V., Kumari, P., Bhandari, N.S. and **Kumar, S.** National intellectual property right policy-2016. ICAR–IIHR Student Newsletter, 2016, 1(3): 16-17.
5. Bhandari, N.S., **Kumar, S.** and Jatav, V. Horticulture biocolourants future perspective for food, health and textile industry. ICAR–IIHR Student Newsletter, 2016, 1(2): 3-4.
6. **Kumar, S.,** Bhandari, N.S. and Nimbolkar, P.K. Nanotechnology: A promising tool for post- harvest management of flower crops. ICAR–IIHR Student Newsletter, 2016, 1(2): 9-10.

7. Nimbolkar, P.K., Chander, S., Shiva, B. and **Kumar, S.** Fruit based cropping systems for livelihood security. ICAR–IIHR Student Newsletter, 2016, 1(1): 7-8.
8. Dhakar, S., **Kumar, S.** and Bhandari, N.S. Botanicals: An organic solution for extending vase life of cut flower. Kerala Karshakan, 2017, 30-34.
9. **Kumar, S**., Bhargav, V. and Bhandari, N.S Rice flower emerging potential cut flower. Kerala Karshakan, 2017, 4(11): 16-19.
10. **Kumar, S.**, Bhargav, V. and Bhandari, N.S. Kangaroo paw: Nature gift for attracting birds in garden. Kerala Karshakan, 2017, 4 (8): 40-43.
11. **Kumar, S.,** Bhandari, N.S. and Shiva, B. Flori-business: A strategic move towards urban and rural. National conference on advanace in Indian Floriculture with forces on North-East &Hill Region, January 2017, page no. 78.
12. **Kumar, S.** and Bhandari, N.S. Edible flower: A powerful sources of nutraceutical foods in human nutrition. National conference on advance in Indian Floriculture with forces on North-East &Hill Region, January 2017, page no. 78.
13. **Kumar, S.,** Porika, H.K. and Bhandari, N.S. Crop modelling: An art of science in Horticulture. National conference on Horticulture crops of humid tropics diversification for sustainability, May 2017.
14. Murthy, K.C.B., **Kumar, S.**, Nimbolkar, P.K., Sangma, D. and Pandav, A. Vertical farming-A Science behind innovative horticulture. International conference on vertical farming at Hotel Taj West End , Bengaluru, Novermber, 2015.
15. Shiva, B., Nimbolkar, P.K., Kumar, M. and **Kumar, S.** Empowering urban areas to become nutritionally self-sufficient by adopting vertical cropping system. International conference on vertical farming at Hotel Taj West End , Bengaluru, Novermber, 2015.
16. Vishwakarma, P.K., Nimbolkar, P.K., **Kumar, S**., Kanade, N.M. and Chander, S. Litchi- Queen of fruit. Papular Kheti, April-June, 2018: 150-153.
17. **Kumar, S.** and Bhandari,N.S. Application of LEDs lighting in strawberry production for improving yield and quality. National seminar on enhancing productivity of fruit crops-mitigating major challeges, January 2017.

Academic:

No. of M.Sc. students under guidance : 2
No. of M.Sc. students under co-guidance : 2

Teaching: Courses Taught

Undergraduate Courses:

Course No.	Course Title
FLS- 211(H)	Commercial Floriculture
FLS-221(H)	Ornamental Horticulture
HORT-311 (V)	Protected cultivation
HORT-221	Production Technology of Ornamental crops, MAP and Landscaping
HORT-223	Landscaping (Elective)
FLS-321 (H)	Breeding and seed production of flower and Ornamental crops

Postgraduate Courses:

FLS-512	Commercial Production of Cut Flowers
FLS-513	Commercial Production of Loose Flowers
FLS-514	Indoor plants and Interiorscaping

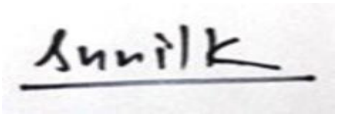
Salient Research Achievements and path ahead:

1) Establishing new floriculture research block for the purpose of teaching and research-cum-demonstration in the Department of Floriculture and Landscaping, CHF, ANDUAT, Kumarganj, Ayodhya during February 2023.
2) Working on development of new lawn/garden in front of Veterinary auditorium, ANDUAT, Kumarganj, Ayodhya, U.P.
3) Working on development of well-established Landscape nursery in campus.
4) Working on improvement of campus landscaping.
5) Working on development of new garden in gate no. 2 of university campus.
6) Working on introduction and evaluation of commercial growing flower crops (Rose, Chrysanthemum, Gerbera) in Ayodhya District of Uttar Pradesh.

Other Activities

Trainings and Workshops Attended	:	4
National/ International Conferences	:	9
• Poster presentation	:	2
• Participated	:	7
Performed in cultural programme/sports/quiz	**:**	5

Place: Ayodhya, Uttar Pradesh
Date: 03 March 2023



[Sunil Kumar]
Assistant Professor
Department of Floriculture and Landscaping
ANDUAT, Kumarganj, Ayodhya

Dean
College of Horticulture and Forestry
ANDUAT, Ayodhya

Name : Dr. Niranjan Singh
Father's Name : Shri Ram Singh
Designation : Assistant Professor
Discipline : Fruit Science
Qualification : Ph.D., NET
Date of Birth : 15/07/1988
Specializations : Fruit Physiologist, Canopy Management, Temperate Fruits, Orchard Management
Present Address : Department of Fruit Science, CHF, ANDUA&T, Kumarganj, Ayodhya-224229, Uttar Pradesh
Permanent Address : Gyanagarh Village, Old Kalsiya Road, Tehsil and District Saharanpur-247001 Uttar Pradesh
Contact : +919882416628
E-mail ID : niranjansinghfruits@gmail.com

Academic Record:

Sr. No.	Degree	Name of the Institution/University
1.	**Ph.D. (Fruit Science)**	Dr. Yashwant Singh Parmar University of Horticulture and Forestry, Nauni, Solan-173230, Himachal Pradesh
2.	**M.Sc. (Ag.) Horticulture**	Chandra Shekhar Azad University of Agriculture and Technology, Kanpur-208002, Uttar Pradesh

M.Sc. Thesis Title: Studies on growth and survival of stone grafts as influenced by age of seedling rootstock in mango (Mangifera indica L.) cv. Amrapali

Ph.D. Thesis Title: Studies on replant problem in apple (Malus × domestica Borkh)

Organization	Position	Duration	Place of Posting and Nature of Work
Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan-173230, Himachal Pradesh	Senior Research Fellow	27.01.2018 to 19.07.2020	I have worded under the World Bank funded Himachal Pradesh Horticulture Development Project with three research components entitled **(A)** Development of *Package of Practices* for High Density Plantations on Clonal Rootstocks **(B)** Creation of gene bank of temperate fruits and nursery production **(C)** Nursery production of clonal rootstock and development of bud wood bank" in the Department of Fruit Science, COH, UHF, Nauni, Solan, H.P.
	Research Associate	20.07.2020 to 01.07.2022	
Sardar Vallabhbhai Patel University of Agriculture and Technology, Meerut, Uttar Pradesh	Subject Matter Specialist Horticulture	02.07.2022 to 15.11.2022	Krishi Vigyan Kendra, Thakurdwara, Moradabad-244601, Uttar Pradesh

Acharya Narendra Deva University of Agriculture and Technology, Kumarganj, Ayodhya, Uttar Pradesh	Assistant Professor (Fruit Science)	16.11.2022 to Till Date	Department of Fruit Science, College of Horticulture and Forestry, ANDUAT, Kumarganj, Ayodhya-224229

Awards/ Appreciations/ received:

1. Received ***Young Scientist Award*** from the "***International Conference on Advance in Agriculture and Allied Science Technologies for Sustainable Development"*** Organized by Genesis Urban and Rural Development Society, Hyderabad, India (10-11 February 2018).
2. ***First prizewinner*** in ***Bottle Guard Vegetable*** under fruits, flowers and vegetables exhibition in ***Akhil Bhartiya Kisan Mela evam Krishi Udyog Pradarshani*** w.e.f. ***18-20 October 2022***, at SVP University of Agriculture and Technology, Meerut, UP.
3. ***First prizewinner*** in ***Star Fruit*** under fruits, flowers and vegetables exhibition in ***Akhil Bhartiya Kisan Mela evam Krishi Udyog Pradarshani*** w.e.f. ***18-20 October 2022***, at SVP University of Agriculture and Technology, Meerut, UP.
4. ***Second prizewinner*** in ***Guava Fruit*** under fruits, flowers and vegetables exhibition in ***Akhil Bhartiya Kisan Mela evam Krishi Udyog Pradarshani*** w.e.f. ***18-20 October 2022***, at SVP University of Agriculture and Technology, Meerut, UP.
5. ***Second prizewinner*** in ***Papaya Fruit*** under fruits, flowers and vegetables exhibition in ***Akhil Bhartiya Kisan Mela evam Krishi Udyog Pradarshani*** w.e.f. ***18-20 October 2022***, at SVP University of Agriculture and Technology, Meerut, UP.
6. ***Second prizewinner*** in ***Broccoli Vegetable*** under fruits, flowers and vegetables exhibition in ***Akhil Bhartiya Kisan Mela evam Krishi Udyog Pradarshani*** w.e.f. ***18-20 October 2022***, at SVP University of Agriculture and Technology, Meerut, UP.

Member of important body:

1 Appointed as **Nodal Officer** of ***Academic Management System (AMS)*** for Academic activity of Ph.D. students vide letter No. ANDUAT/CHF/2022/-1243 dated 07/02/2023.

2 Appointed as **Member** for conducting ***Nursery Production and Management*** for ***Value Added Courses*** vide letter No. ANDUAT/CHF/2022/-1178 dated 18/01/2023.

Total Number of Publication (Research/ Review/ Extension Articles): 43

- More than 6.0 NAAS Score 2022 : 6 (Thomson Reuters)
- 5.0-6.0 NAAS Score 2022 : 16
- 4.0-5.0 NAAS Score 2022 : 6
- Less Than 4.0 NAAS Score 2022 : 5
- Extension article : 8 (4 in Hindi and 4 in English)
- Monoblock and Pamplets : 2

Books Published : 1
Book Chapters : 10
Practical / Training Manual : 2

Top Ten Research Publication:

1. **Singh N**, Sharma DP, Kaushal R, Sharma N, Sharma IM and Sharma SS (2020) Isolation and identification of fungi and nematodes in the rhizosphere soil of old declining apple orchards in Himachal Pradesh, India. *Allelopathy Journal*, 50(2): 139- 152.

2. Sharma DP, **Singh N** and Thakur KK (2021) Influence of soil agro-techniques and rootstock on management of apple replant diseases. *Indian Journal of Horticulture*, 78(4): 392-397.
3. Kumari S, Thakur A, **Singh N**, Chandel JS and Rana N (2020) Influence of drought stress and brassinosteroid on growth and physio-biochemical characteristics of apple plants. *Indian Journal of Horticulture*, 77(1): 88-93.
4. **Singh N**, Sharma DP and Thakur KK (2018) Effect of rootstocks and soil management on growth and physiological parameters in new plantations of apple under replant conditions. *Indian Journal of Horticulture*, 75(3): 392-398.
5. **Singh N**, Sharma DP and Kumari S (2018) Nematodes and Biological Activity Status of Declining Apple Orchards in Shimla and Sirmaur Districts of Himachal Pradesh-A Survey. *Indian Journal of Nematology*, 48(1): 73-76.
6. **Singh N**, Sharma DP, Kumari S and Kaushal R (2019) Characterization of Fluorescent *Pseudomonas* spp. from rhizospheric soil of different declining apple orchards of Shimla and Sirmaur districts of Himachal Pradesh. *Agricultural Research Journal*, 56(4): 688-697.
7. **Singh N**, Sharma DP, Kumar V and Hota D (2018) Impact of different rootstocks and soil agro-techniques on rhizospheric biological Activities and growth traits under apple replant sick soil. *Multilogic in Science*, 7: 88-91.
8. **Singh N**, Tripathi SM and Ghumare V (2014) Studies on growth and survival of stone grafts as influenced by age of seedling rootstock in mango (*Mangifera indica* L.) cv. Amrapali. *Journal of Applied and Natural Science*, 6 (2): 716-719.
9. Sharma DP, **Singh N** and Kumari S (2020) Response of rootstocks and soil agro-techniques to replant problem in apple (*Malus* × *domestica* Borkh.). *Applied Biological Research*, 22(3): 261-269.
10. Sharma DP and **Singh N** (2018) Effect of rejuvenation pruning on the growth, productivity and disease incidence in declining trees of pomegranate (*Punica granatum* L.) cv. Kandhari Kabuli. *Journal of Applied and Natural Science*, 10(1): 358 – 362.

Review Articles Publication:

1 Sharma DP and **Singh N** (2022) Soil Sickness in Fruit Orchards: Causes and Management. *Allelopathy Journal* 56 (1): 1-20.

2 Sharma NC, Verma P, **Singh N** and Babita (2020) Causes and Control Measures of Apple Replant Problem. *International Journal of Bioresource and Stress Management*, 11(3):246-257.

3 **Singh N**, Sharma DP, Kumari S and Kalsi K (2018) Crop regulation in guava- a review. *International Journal of Farm Sciences*, 8(2): 131-135.

4 **Singh N**, Sharma DP and Chand H (2016) Impact of Climate Change on Apple Production in India: A Review. *Current World Environment*, 11(1), 251-259.

Book:

1. **Singh N** (2015) Stone grafting in mango (*Mangifera indica* L.) cv. Amrapali. Lambert Academic Publishing, Germany 978-3-659-75692-4.

Book Chapters:

1. **Singh N**, Gautam S, and Gautam DR (2022) Impact of climate change on fruit production in India. Indian Economy Development and Challenges, Studera Press, New Delhi. 978-81-947252-9-9
2. Gautam DR, **Singh N** and Sharma DP (2022) Apple industry: Prospects and challenges under changing climate in India. Indian Economy Development and Challenges, Studera Press, New Delhi. 978-81-947252-9-9
3. **Singh N**, Kumari S, Sharma DP, Sharma DD, Singh G, Thakur KK (2019) Abiotic Problems and Their Managements in Kiwifruit, Strawberry and Persimmon Fruit Crops. Research Trends in Environmental Science. (Volume-1), AkiNik Publications, New Delhi. 978-93-5335-492-3.
4. **Singh N**, Sharma DD, Singh G, Thakur KK, Kumari S. (2019) Physiological Disorders and Their Managements in Apple and Pear Fruits. Advanced Botany (Volume-1), AkiNik Publications, New Delhi. 978-93-5335-411-4.
5. Sharma DP and **Singh N** (2018) Seabuckthorn (*Hippophae* species). Cultivate Minor Temperate Fruits Scientifically, Jaya Publishing House, New Delhi. 978-93-8759- 087-8.
6. Priyadarshi V, Hota H, Singh SPS and **Singh N** (2018) Effect of growth regulators and micronutrients spray on yield attributing character of litchi (*Litchi chinensis*sonn.) Cv. Calcuttia. Advances in Horticultural Crops, Weser Books, Germany. 978-3- 96492-079-9.
7. **Singh N**, Kumari S, Singh G, Thakur KK and Sharma DD (2018) Causes and Remedies: Physiological Disorders in Stone Fruit Crops. Advances in Agriculture Sciences (Volume – 11), AkiNik Publications, New Delhi. 978-93-5335-057-4.
8. **Singh N**, Thakur KK, Kumari S, Singh G and Sharma DD (2018) Causes and Remedies for Physiological Disorders of Nut Fruit Crops. Advances in Horticulture (Volume – 2), AkiNik Publications, New Delhi. 978-93-5335-051-2.
9. **Singh N**, Sharma DP, Kumari S, Hota D and Sharma DD (2017) Weed Management Strategies for Tropical and Subtropical Fruit Orchards. Research Trends in Horticulture Sciences (Volume – 4), AkiNik Publications, New Delhi. 978-93-88112- 056-7.
10. Sharma DP and **Singh N** (2015) Seabuckthorn (*Hippophae species*). Minor fruits: Nutraceutical importance and cultivation, Jaya Publishing House, New Delhi. 978-93-86110-29-9.

Practical Manual:

1. Sharma DP, **Singh N**, Thakur KK, Rimpika, Sharma S (2021) Orchard Management in Fruit Crops. Directorate of Extension Education, Dr. YS Parmar University of Horticulture and Forestry Nauni, Solan-173230 (HP), India.

2. Sharma DP, **Singh N**, Thakur KK, Rimpika, Sharma S (2022) Orchard Management in Fruit Crops. Directorate of Extension Education, Dr. YS Parmar University of Horticulture and Forestry Nauni, Solan-173230 (HP), India.

Popular Articles

1. **Singh N** and Sharma DP (2020) Management of the apple replant problem. Indian Horticulture, 65(5):11-15
2. **Singh N**, Sharma DP and Sharma DD (2020) Effect of Covid-19 pandemic on Indian Agriculture. Krishi Science, KS/01/01/2: 4-6.
3. Hota H, Bhoyar MG, **Singh N**, Sharma N (2017) Flood Stress in Fruit Plant. Biomolecule Reports. BR/10/17/41: 1-3.

Lead papers

1. Sharma DP, **Singh N** and Machan A (2020) Pollination assisted production of Fruit Crops. National Seminar on Smart Horticulture (Under NAHEP-IG, ICAR, New Delhi, India) January, 30-31.

Other Activities

Scholarships/ Fellowships	**:**	State Govt. and UGC Fellowships
Trainings and Workshops Attended	:	7
National/ International Conferences	:	19
• Oral presentation	:	6
• Poster presentation	:	6
• Participated	:	7
• **Google Citations**	:	225; (h-index-8; i10 index-4)
• **Scopus Publication**	:	7
Life Membership in Societies	**:**	3

Place: Ayodhya, Uttar Pradesh
Date: 04 March 2022

[Niranjan Singh]
Assistant Professor
Department of Fruit Science ANDUAT, Kumarganj, Ayodhya

Dr. Hitesh Kumar
E-mail: *hitesh.3971@gmail.com*

Details

Date of Birth	: 15th January, 1989
Father's Name	: Late Shiv Shanker
Marital Status	: Unmarried
Languages Known	: Hindi and English
Correspondence Address	: Vill.-Arajiisepur, Post- Bachhana, Dist.-Kanpur Nagar
Mobile No.	: 9466218467
Religion	: Hindu
Nationality	: Indian

Educational Qualification

Examination/Degree	Board/Institute/University	Year	Division	Subject/Specialization
High School	U.P.Board Allahabad	2005	First	Science
Intermediate	U.P.Board Allahabad	2007	First	Agriculture
B.Sc. (Horticulture)	NDUAT, Faizabad	2011	First	Horticulture
M.Sc.Post Harvest Technology of Horticulturre	IARI, New Delhi	2013	First	Major: PHT- Horticultural crops-VegetableMinor: Vegetable Science
Ph.D. Vegetable Science	CCS, HAU Hisar	2019	Seond	Major:Vegetable Science Minor: Genetics & Plant Breeding

Academic Achievement

1. UPCATET (Uttar Pradesh Combined Agricultural and Technological Entrance Test)-2007.
2. ICAR-JRF (Junior Research Fellowship) in Horticulture in 2011.
3. ICAR-SRF (Senior Research Fellowship) in Vegetable Science in 2015.
4. ICAR-NET (National Eligibility Test) in Vegetable Science in 2013.
5. ICAR-NET (National Eligibility Test) in Fruit Science in 2018.
6. ICAR-NET (National Eligibility Test) in Spices, Plantation & Medicinal & Aromatic Plants in 2020.

ICAR-ARS- Also given two times of ARS interviews in two discipline of Horticulture.

List of fellowships

1. **ICAR-JRF** fellowship awarded during M.Sc. @ Rs.8640/Month+6000 Contingency
2. **ICAR-SRF** fellowship awarded during Ph.D.@ 15000/Month+10000 Contingency
3. **UGC-NFSC** Fellowship awarded during Ph.D. @ 25000/Month +10000 Contingency

Experience(s)

1. **Farm Tele Adviser** in Kisan Call Centre of IFFCO, Kisan Sanchar LTD., Ministry of Agriculture, Govt. of India at Kanpur -3 Months (01/10/2015 to 31/12/2015).
2. **Assistant Professsor** (Horticulture) at PDM University, Bahadurgarh (Haryana)- 1 Year (02/08/2019 to 10/08/2020).
3. **Assistant Professsor** (Horticulture) at Guru Kashi University, Bhatinda (Punjab)**-** More than 1 Year (25/09/2020 to 20/11/2021).

4. **Co-guide** of M.Sc. (Fruit Science) of 06 students at Guru Kashi University, Bhatinda (Punjab).
5. Presently, working as **Senior Research Fellow** in ICAR funded NAHEP-CAAST NC Project at CSAUAT, Kanpur.

Publications: Publications published in different reputed journals.

1.	Full length Research Paper NAAS Rating	**>6.0**	**-**	**01**
		<6.0	**-**	**04**
2.	Book chapters		**-**	**02**
3.	Review Articles NAAS Rating	**<6.0**	**-**	**02**
4.	Abstracts		**-**	**04**

Best 5 papers:

1. **Hitesh Kumar***, S.K. Dhankhar, D.P. Singh, Rajiv, H.G. Prakash and Prabhat Kumar (2022) Evaluation of onion (Allium cepa L.) genotypes for growth and yield under arid condition of Haryana. Agricultural Mechanization in Asia, Africa and Latin America. ID: AMA-06-01- 2022-11002 (Accepted) **NAAS-6.17)**
2. **Hitesh Kumar***, Charanjit Kaur and Janagam Venu Madhav (2015) A Comprehensive Evaluation of Total Phenolics, Flavonoids Content and in vitro Antioxidant Capacity of Selected Fruits and Vegetables. *Research Journal of Agricultural Scienc*es: 6(6): 1186-1189 **NAAS-4.54)**
3. **Hitesh Kumar*,** Charanjit Kaur & Sarika Jaiswal (2017) Application of principal component analysis based on *in vitro* antioxidant capacity. *Chemical Science Review and Letters*: 6(23): 1410-1422 **NAAS-5.21)**
4. **Hitesh Kumar*** and Charanjit Kaur (2017) A Comprehensive Evaluation of Total Phenolics, Flavonoids Content and In-Vitro Antioxidant Capacity of Selected 18 Cereal Crops. *International Journal of Pure Applied Bioscience*. 5 (2): 569-574 **NAAS-4.74)**
5. **Hitesh Kumar***& Gaurav Kant (2017) Effect of antioxidant activity of Horticulture crops for Human health. *Chemical Science Review and Letters*: 6(21): 88-93 **NAAS-5.21)**

Symposium/workshop/seminar attended

1. Trainings- **03**
2. Symposium, workshop and seminar- **03**

Hon’ble Governor of UP Visited Horticultural stall dusring 58th state level fruit, vegetable and flower exhibition 2023

Hon’ble Agriculture minister Gov. of UP and Hon’ble VC, ANDUA&T Planting a plant during **Azadi ka Amrit Mahotsav “Vrhad Vrkshaaropan Abhiyaan”** at adopted village ‘Pragasaka purwa’ Milkipur, Ayodhya on 22 July.