



Department of Horticulture
Post Graduate Institute
Mahatma Phule Krishi Vidyapeeth
Rahuri-413 722, Dist. Ahmednagar (MS)



The Horticulture departmental activities started at the Central Campus, Rahuri in 1972-73. Ten districts viz. Ahmednagar, Nasik, Jalgaon, Dhule, Nandurbar, Pune, Kolhapur, Satara, Sholapur, and Sanlgi are under the operational areas of Mahatma Phule Krishi Vidyapeeth, Rahuri where active research on horticulture is being carried out. The significant contribution made by this department in respect of education, research and extension is summarized in the abridged form hereunder.

Faculty

S.N.	Name	Designation	Phone No. (O)	E-mail
1	Dr. S. A. Ranpise	Head Department of Horticulture	(02426) 243 247	shrimantranpise12@gmail.com
2	Dr. B. B. Dhakare	Professor		bhagwandhakare 64@ gmail.com
3	Dr. D. B. Kshirsagar	Associate Professor		drdbk69@ rediffmail.com

Education

Department imparts education in Horticulture to the undergraduate students admitted at various Agricultural Colleges viz., Pune, Kolhapur, Dhule, Nandurbar, Karad, Muktainagar and Halgaon; College of Horticulture, Pune and Dr. A. S. College of Agril. Engineering and Technology, Rahuri. This subject is also taught in Marathi medium in various Agriculture Technical Schools under the jurisdiction of this University and Mali Training Centre, at Pune and Rahuri.

Post graduate programme in Horticulture M. Sc. and Ph. D. in disciplines like Fruit Science and Vegetable Science at Central Campus, Rahuri while M. Sc. in Floriculture and Landscaping at College of Agriculture, Pune as well as M.Sc. in Vegetable Science at College of Agriculture, Kolhapur and M. Sc. in Fruit Science at College of Agriculture, Dhule. Till today more than 359 in M. Sc. and 101 in Ph. D. students awarded degree from this department.

Academic Programmes

a) Masters Programme:

Sr. No.	Particulars	Intake	Location
1	Fruit Science	06	Central Campus, Rahuri
		04	College of Agriculture, Dhule
2	Vegetable Science	06	Central Campus, Rahuri
		06	College of Agriculture, Kolhapur
3	Floriculture	06	College of Agriculture, Pune

b) Doctoral Programme:

Sr. No.		Intake	Location
1	Fruit Science	04	Central Campus, MPKV, Rahuri
2	Vegetable Science	04	Central Campus, MPKV, Rahuri

c) Mali Training Course:

Sr. No.	Particulars	Intake	Location
1	Mali Training Course	40	Regional Fruit Research Station, Ganeshkhind, Pune
2		40	Central Campus, MPKV, Rahuri

Master's Programme in Fruit Science

Course Layout Minimum Credit Requirements

Sr. No.	Subject	Minimum credit (s)
1.	Major	20
2.	Minor	09
3.	Supporting	06
4.	Seminar	01
5.	Research	20
	Total Credits	56
6.	Compulsory Non Credit Courses	04

Sr. No.	Course Number	Course Title	Credits
A) Major Subjects (Min. 20 credits)			
1	FSC - 501*	Tropical and Dry Land Fruit Production	2+1=3
2	FSC - 502*	Subtropical and Temperate Fruit Production	2+1=3
3	FSC - 503	Biodiversity and Conservation of Fruit Crops	2+1=3
4	FSC - 506*	Breeding of Fruit Crops	2+1=3
5	FSC - 507	Post Harvest Technology for Fruit Crops	2+1=3
6	FSC - 508	Growth and Development of Horticultural Crops	2+1=3
7	FSC - 510	Organic Horticulture	1+1=2
B) Minor Subjects (Min. 09 credits)			
1	AGRO - 505	Agro-Meteorology and Crop Weather Forecasting	2+1=3
2	BIOCHEM - 501	Basic Biochemistry	2+1=3
3	GP - 510	Breeding for Biotic and Abiotic Stress Resistance	2+1=3
C) Supporting Subjects (Min. 06 credits)			
1	STAT - 511	Statistical Methods for Applied Science	2+1=3
2	STAT - 512	Experimental Designs	2+1=3
D) Seminar (01 credit)			
1	FSC - 591	Seminar	0+1=1
E) Master's Research (20 credits)			
1		Master's Research	0+20=20
F) Non Credit Compulsory Courses			
1	PGS - 501	Library and information services	0+1=1

2	PGS - 504	Basic concepts in Laboratory Techniques	0+1=1
3	PGS - 502	Technical Writing and Communication Skill	0+1=1
4	PGS - 503	Intellectual Property and its Management in Agriculture	1+0=1

Master's Programme in Vegetable Science

Course Layout Minimum Credit Requirements

Sr. No.	Subject	Minimum credit(s)
1.	Major	21
2.	Minor	09
3.	Supporting	06
4.	Seminar	01
5.	Research	20
	Total Credits	57
6.	Compulsory Non Credit Courses	04

Sr. No.	Course Number	Course Title	Credits
A) Major Subjects (Min. 21 credits)			
1	VSC - 501*	Production Technology of Cool Season Vegetable Crops	2+1=3
2	VSC - 502*	Production Technology of Warm Season Vegetable Crops	2+1=3
3	VSC - 503*	Breeding of Vegetable Crops	2+1=3
4	VSC - 504*	Growth and Development of Vegetable Crops	2+1=3
5	VSC - 505	Seed Production Technology of Vegetable Crops	2+1=3
6	VSC - 507	Production Technology of Underexploited Vegetable Crops	1+1=2
7	VSC - 508	Organic Vegetable Production Technology	1+1=2
8	VSC - 509	Fundamentals of Processing of Vegetables	1+1=2
B) Minor Subjects (Min. 09 credits)			
1	AGRO - 505	Agro-Meteorology and Crop Weather Forecasting	2+1=3

2	BIOCHEM - 501	Basic Biochemistry	2+1=3
3	GP - 510	Breeding for Biotic and Abiotic Stress Resistance	2+1=3
C) Supporting Subjects (Min. 06 credits)			
1	STAT - 511	Statistical Methods for Applied Science	2+1=3
2	STAT - 512	Experimental Designs	2+1=3
D) Seminar (1 credit)			
1	VSC - 591	Seminar	0+1=1
E) Master's Research (20 credits)			
1		Master's Research	0+20=20
F) Non Credit Compulsory Courses			
1	PGS - 501	Library and information services	0+1=1
2	PGS - 504	Basic concepts in Laboratory Techniques	0+1=1
3	PGS - 502	Technical Writing and Communication Skill	0+1=1
4	PGS - 503	Intellectual Property and its Management in Agriculture	1+0=1

Master's Programme in Floriculture and Landscaping

Course Layout Minimum Credit Requirements

Sr. No.	Subject	Minimum credit(s)
1.	Major	21
2.	Minor	09
3.	Supporting	06
4.	Seminar	01
5.	Research	20
	Total Credits	57
6.	Compulsory Non Credit Courses	04

Sr. No.	Course Number	Course Title	Credits
A) Major Subjects (Min. 21 credits)			
1	FLA- 501*	Breeding of Flower Crops and Ornamental	2+1=3
2	FLA- 502*	Production Technology of Cut-flowers	2+1=3
3	FLA- 503*	Production Technology of Loose-flowers	2+1=3
4	FLA- 504*	Landscaping & Ornamental Gardening	2+1=3

5	FLA- 505	Protected Floriculture	2+1=3
6	FLA- 506	Value Addition in Flowers	2+1=3
7	FLA- 507*	Turfing and Turf Management	2+1=3
B) Minor Subjects (Min. 09 credits)			
1	AGRO- 505	Agro-Meteorology and Crop Weather Forecasting	2+1=3
2	GP- 503	Principles of Plant Breeding	2+1=3
3	GP- 510	Breeding for Abiotic Stress	2+1=3
C) Supporting Subjects (Min. 06 credits)			
1	STAT- 511	Statistical Methods for Applied Science	2+1=3
2	STAT- 512	Experimental Designs	2+1=3
D) Seminar (01 credit)			
1	FLA- 591	Seminar	0+1=1
E) Master's Research (20 credits)			
1		Master's Research	0+20=20
F) Non Credit Compulsory Courses			
1	PGS- 501	Library and Information Services	0+1=1
2	PGS- 504	Basic concepts in Laboratory Techniques	0+1=1
3	PGS- 505	Agricultural Research Ethics and Rural Development Programme	1+0=1
4	PGS- 506	Disaster Management	1+0=1

Doctoral Programme in Fruit Science

Course Layout Minimum Credit Requirements

Sr. No.	Subject	Minimum credit(s)
1	Major	18
2	Minor	08
3	Supporting	05
4	Seminar	02
5	Research	45
	Total Credits	78
6	Compulsory Non Credit Courses	04

Sr. No.	Course Number	Course Title	Credits
D) Major Subjects (Min. 18 credits)			
1	FSC - 505	Propagation and Nursery Management for Fruit Crops	2+1=3
2	FSC - 601	Advances In Breeding of Fruit Crops	2+1=3
3	FSC - 602	Advances In Production of Fruit Crops	2+1=3
4	FSC - 603	Advances In Growth Regulation of Fruit Crops	2+1=3

5	FSC - 605	Biotic and Abiotic Stress Management in Horticultural Crops	2+1=3
6	FSC-606	Systematics of Fruit Crops	2+1=3
E) Minor Subjects (Min. 08 credits)			
1	VSC - 603	Protected Cultivation of Vegetable Crops	2+1=3
2	PP - 605	Climate Change and Crop Growth	2+0=2
3	BIOCHEM - 603	Bio-chemistry of Biotic and Abiotic Stress	3+0=3
F) Supporting Subjects (Min. 05 credits)			
1	STAT-601	Advanced Statistical Methods	2+1=3
2	FST-606	Food Analysis	0+2=2
F) Seminar (02 credits)			
1	FSC-691	Doctoral Seminar I	1+0=1
2	FSC-692	Doctoral Seminar II	1+0=1
G) Doctoral Research (45 credits)			
1	FSC - 699	Doctoral Research	0+45=45
F) Non Credit Compulsory Courses			
1	PGS - 501	Library and Information Services	0+1=2
2	PGS - 504	Basic Concepts in Laboratory Techniques	0+1=2
3	PGS - 502	Technical Writing and Communication Skills	0+1=2
4	PGS - 503	Intellectual Property and its Management In Agriculture	0+1=2

Doctoral Programme in Vegetable Science

Course Layout Minimum Credit Requirements

Sr. No.	Subject	Minimum credit(s)
1.	Major	18
2.	Minor	08
3.	Supporting	05
4.	Seminar	02
5.	Research	45
	Total Credits	78
6.	Compulsory Non Credit Courses	04

Sr. No.	Course Number	Course Title	Credits
A) Major subjects (Min. 18 credits)			
1	VSC -601	Advances in Vegetable Production	2+1=3

2	VSC -602	Advances in Breeding of Vegetable Crops	2+1=3
3	VSC -603	Protected Cultivation of Vegetable Crops	2+1=3
4	VSC -604	Biotechnology of Vegetable Crops	2+1=3
5	VSC -605	Seed Certification, Processing and Storage of Vegetable Crops	2+1=3
6	VSC-606	Abiotic Stress Management in Vegetable Crops	2+1=3
B) Minor Subjects (Min. 08 credits)			
1	FSC -505	Propagation and Nursery Management for Fruit Crops	2+1=3
2	PP-605	Climate Change and Crop Growth	2+0=2
3	BIOCHEM-603	Biochemistry of Biotic and Abiotic Stress	3+0=3
C) Supporting Subjects (Min. 05 credits)			
1	STAT-601	Advanced Statistical Methods	2+1=3
2	AGRON-606	Advances in Weed Management	2+0=2
D) Seminar (02 credits)			
1	VSC 691	Doctoral Seminar I	1+0=1
2	VSC 692	Doctoral Seminar II	1+0=1
E) Doctoral Research (45 credits)			
		Doctoral Research	0+45=45
F) Non Credit Compulsory Courses			
1	PGS-501	Library and Information Services	0+1
2	PGS-504	Basic Concepts in Laboratory Techniques	0+1
3	PGS-502	Technical Writing and Communication Skills	0+1
4	PGS-503	Intellectual Property and its Management in Agriculture	0+1

Centre of Advanced Faculty Training in Horticulture (Fruits)

The most important programme i.e. The Centre for Advanced Faculty Training in Horticulture (Fruits) was sanctioned by Indian Council of Agriculture Research, New Delhi in the year 1994. ICAR allotted this centre as a National Training Centre on various aspects of fruit production. Till today, twenty eight National trainings were organized by this centre on various aspects and themes on Horticulture (Fruits) and 500 trainees were benefited from India since 1996.

Hi-tech Floriculture / Vegetable Unit

Rest of Maharashtra Legislative Development Board (*Urvarit Maharashtra Vaidhanik Vikas Mahamandal*) sanctioned Rs. 3.00 crores for the establishment of Hi-Tech Floriculture Project, Department of Horticulture, College of Agriculture, Pune under Mahatma Phule Krishi Vidyapeeth, Rahuri in the year 2000. The objectives of the project are to demonstrate the greenhouse technology, to grow and undertake research in cut flowers like Rose, Gerbera, Carnation and coloured Capsicum and to conduct trainings for farmers and students. The total area under polyhouses of the project is 1.80 ha growing Rose, Gerbera, Carnation, Capsicum and Anthurium whereas the Orchid and Lilium are grown under Shade-Net houses. As **Hi-tech Floriculture** is a leading centre in Maharashtra, 1550 students from Agricultural Diploma and Mali Training centers were benefited as well as 1950 youth, entrepreneurs and farmers were trained from this project.

Laboratories

Well equipped two M. Sc. and Ph. D. laboratories, two classrooms, two seminar halls, one PHT laboratory, CAFT laboratory, at Central Campus, MPKV, Rahuri for post graduate teaching and research programme. Similar laboratory facilities are also available at horticulture section at various Agriculture and Horticulture college for under graduate students. All essential advanced equipments are available in laboratories and M. Sc and Ph. D students were allowed to work with these equipments.

Post Harvest Technology Laboratory

The Post Harvest Technology Unit, Department of Horticulture, MPKV, Rahuri has established protocol for fruit juice based beverages and processed products.

Library

Separate department library is available and more than 3000 text, reference and competitive books, journals and compendium are available in this library.



Post Graduate Laboratory



Section Library



Post Graduate Laboratory



Post Graduate Laboratory



Seminar Hall



Seminar Hall

Thesis submitted by the students of M. Sc. in Horticulture during last seven years

Sr. No.	Name of the student	Reg. No.	Title of the Thesis	Name of Research Guide
2010				
1	Kale R. D.	08/216	Effect of different containers and coco-peat forms on growth, yield and quality of Gerbera flowers under protected condition.	Dr. K. B. Jagtap
2	Miss. Harpale S.E.	08/214	Effect of foliar application of gibberellic acid on biometric and floral characters of Anthurium.	Dr. S. N. Ambad
3	Miss. Sarvade S. A.	08/217	Studies on evaluation of different varieties of Lillum for growth, quality and flower yield under shade net conditions.	Dr. S.A. Ranpise
4	Nagarale K. R.	08/211	Genetic variability and heritability studies in Garden Pea.	Dr. K. G. Shinde
5	Londhe R. R.	08/208	Studies on genetic variability in cherry Tomato.	Dr. M. N. Bhalekar
6	Miss. Bairagi S. D.	08/210	Studies on genetic variability and correlation in Okra.	Dr. S. D. Warade
7	Nanekar B.A.	08/212	Diversity and path analysis studies in Chilli.	Dr. B. T. Patil
8	Miss. Chaukhande P.	08/209	Studies on genetic diversity in Okra.	Dr. M. N. Bhalekar
9	Kad S. T.	08/207	Studies on preparation and storage of toffees from Guava pulp.	Dr. A.R. Karale
10	Chalke P. R.	08/203	Effect of packaging and storage temperature on storage behavior of ready-to-serve beverage of unripe Mango.	Dr. V. S. Supe
11	Pawar S. S.	07/151	Heterosis and combining ability studies in Brinjal.	Dr. B.V. Garad
12	Jaybhave R. B.	08/219	Performance of different genotypes of Gaillardia.	Dr. B. B. Patil
13	Patil P.D.	08/213	Genetic variability studies in Bottle gourd.	Dr. A. M. Musmade
14	Jogdand S. M.	07/163	Effect of different levels of nutrients on growth and flowering of anthurium.	Dr. S. N. Ambad

2011				
15	Miss. Dhas P. C.	09/252	Studies on methods of juice extraction and storage behavior of Grape cv. Sharad seedless.	Dr. S.S. Kulkarni
16	Miss. More V. K.	09/247	Effect of chemicals on flowering and fruiting in Mango cv. Keshar.	Dr. B. V. Garad
17	Kashid S.B.	09/246	Performance of elite sapota cultivars.	Prof. H. K. Shirsath
18	Miss. Gidmare P. P.	09/258	Genetic variability and path analysis studies in Garlic (<i>Allium sativum</i> L.).	Dr. B. T. Patil
19	Kulkarni P. S.	--	Genetic variability studies in French bean for summer season.	Dr. A. M. Musmade
20	Miss. Gham S. S.	09/245	Standardization of time and intensity of pruning in Custard apple cv. Balanagar.	Dr. V. R. Joshi
21.	Miss. Nagarale A.P.	09/248	Biochemical changes associated with growth and development of Pomegranate.	Dr. V. S. Supe
22	Mr. Birajdar U.M.	--	Genetic diversity studies in brinjal.	Dr. K. G. Shinde
23	Miss. Yewale P. H.	09/249	Effect of mulching and chemicals for extending shelf life of Mango cv. Keshar.	Dr. S. S. Kulkarni
24	Kharche N.T.	09/313	Variability studies in Onion.	Dr. M. N. Bhalekar
25	Sawake S.A.	07/165	Effect of time of application of NPK on yield and quality of Tuberose variety – Phule Rajni.	Dr. S. B. Gurav
26	Chate B. R.	07/162	Performance of Sweet Pepper varieties under shade net condition.	Dr. K. K. Mangave
27	Wankhede H. P.	09251	Effect of plant growth regulators and micronutrients on fruit drop, yield and quality in Sweet Orange (<i>citrus sinensis</i> (L.) osbeck)	Prof. D. D. Jagtap
2012				
28	Attar A. V.	09/263	Standardization of agro techniques in Pea (<i>Pisum Sativum</i> L.) cv. Phule Priya	Dr. B. T. Patil
29	Chaukhande P. B.	10/319	Heterosis studies in Okra (<i>Abelmoschus esculentus</i> L. Moench)	Dr. B. T. Patil
30	Barbade S. S.	10/304	Studies on Effect of pre harvest spray for extending shelf life of Mango cv. Keshar	Dr. S. S. Kulkarni
31	Supnar S. N.	08/202	Effect of plant growth regulators and chemicals on growth of rangpur lime	Prof. D. D. Jagtap

			seedlings	
32	Pawar P. K.	10/320	Effect of sulphur sources and levels on yield and quality of Onion (<i>Allium cepa</i> L.)	Dr. K. G. Shinde
33	Patel S.A.	10/317	Evaluation of progenies of Tomato (<i>Solanum lycopersicum</i> Mill.) Hybrid for yield, quality and resistance to Tomato leaf curl virus (TLCV) disease	Dr. D. B. Kshirsagar
34	Miss. Kankhar S.R.	10/315	Integrated nutrient management in Garlic (<i>Allium sativum</i> L.) cv. Phule Baswant	Dr. M. N. Bhalekar
35	Miss. Kadam J. M.	10/314	Integrated nutrient management in Onion (<i>Allium cepa</i> L.) cv. N-2-4-1.	Dr. K. G. Shinde
2013				
36	Miss. S. B. Choudhari	10/305	Effect of time and pruning intensity of growth, yield and quality in Custard apple (<i>Annona squamosa</i> L.) Cv. Balanagar.	Dr. V. R. Joshi
37	Ubale R. D.	10/318	Effect of plant growth regulators and fruit pickings on seed yield and seed quality of Okra (<i>Abelmoschus esculentus</i> L. Moench) Variety- Phule Utkarsha.	Dr. A. M. Musmade
38	Durgude R. A.	11/316	Studies on wedge grafting in Guava (<i>Psidium guajava</i> L.) cv. Saradar	Dr. H. K. Shirsath
39	Patil G. P.	11/326	Evaluation of Tomato (<i>Solanum lycopersicum</i> L.) genotypes for processing qualities	Dr. D. B. Kshirsagar
40	Miss. Bhuse A. A.	11/327	Studies on spacing and fertilizer levels on growth and yield of Brinjal (<i>Solanum melongena</i> L.) Hybrid Phule Arjun	Dr. K. G. Shinde
41	Miss. Pagare S. F.	10/316	Effect of plant growth regulators on growth, seed yield and seed quality of Pea (<i>Pisum sativum</i> L.) Variety – Phule Priya.	Dr. A.M. Musmade
42	Miss. B. D. Deshmukh	11/328	Effect of foliar application of fertilizer grades on growth and yield of Onion (<i>Allium cepa</i> L.) N-2-4-1.	Prof. P. S. Pawar
43	Parkhe P. B.	11/317	Influence of pre-harvest application of chemicals on post harvest quality of Guava (<i>Psidium guajava</i> L.) cv. Sardar.	Dr. S. S. Kulkarni
44	Kalbhor T. P.	11/319	Effect of pruning time and intensities	Dr. V. R.

			on growth, yield and quality Custard apple (<i>Annona squamosa</i> L.) cv. Balanagar.	Joshi
45	Miss. Kale A. A.	11/318	Assessment of Variability Studies in M3 Lines of Okra (<i>Abelmoschus esculentus</i> L. Moench).	Dr. A. M. Musmade
2014				
46	Anarase M. D.	12/322	Weed management studies in rabi Onion (<i>Allium cepa</i> L.) cv. N-2-4-1.	Dr. S. G. Bhalekar
47	Bhagwat K. P.	12/326	Studies on nutrient management in rabi Onion (<i>Allium cepa</i> L.).	Dr. K. G. Shinde
48	Miss. Godi N. Flora	012/316	Evaluation of some Ber (<i>Zizyphus mauritiana</i> Lam K.) Genotypes for morphological and physic-chemical characters.	Dr. V. R. Joshi
49	Miss. Shinde A. M.	12/324	Effect of pre harvest treatments with chemicals on yield storage and post harvest quality of Onion (<i>Allium cepa</i> L.)	Prof. M. H. Gawade
50	Miss. Lambe Y. T.	12/314	Studies on micronutrients application on yield and quality of Guava under high density planting Cv. Sardar.	Dr. S. S. Kulkarni
51	Miss. Bhise P. B.	12/311	Effect of plant growth regulators and chemical on management of hasta bahar in Acid Lime (<i>Citrus aurantifolia</i> swingle) Cv. Phule Sharbati	Prof. P. S. Pawar
52	Miss. Inamdar A. F.	12/320	Genetic variability studies in pole type Dolichos Bean (<i>Lablab purpureus</i> L.).	Dr. B. T. Patil
2015				
53	Mr. Jadhav N. G.	12/315	Effect of Growth Regulators and Chemical & Organic Wastes on Germination & Subsequent Growth of Rangpur Lime Seedlings.	Dr. D. D. Jagtap
54	Baryalai Serat	13/207	Effect of shade net on quality of Grape cv. Thompson seedless	Dr. S. S. Kulkarni
55	Mr. Miilion P. Madebo	13/206	Micro-propatgation studies in Banana (<i>Musa paradisiaca</i>) cv. Grand Naine.	Dr. V.R. Joshi
56	Miss. Tapkir M. B.	13/200	Standardization of Protocol for Preparation of Guava (<i>Psidium guajava</i> L.)	Dr. J. K. Dhemre
57	Miss. Neware S.	13/201	Effect of Plant Growth Regulators and Micronutrients on Sweet Orange.	Dr. D. D. Jagtap
58	Miss. Galande S. B.	13/202	Effect of Foliar Application of Fertilizers on Yield and Quality of Mango (<i>Mangifera indica</i> L.) cv.	Dr. B. V. Garad

			Keshar.	
59	Miss. Chatale P. D.	13/208	Genetic Variability Studies in Cluster Bean (<i>Cyamopsis tetragonoloba</i> (L.) Taub).	Dr. B. T. Patil
60	Mr. Nanaware M. B.	13/210	Integrated Weed Mangement Studies in Onion (<i>Allium cepa</i> L.) Seed Crop cv. Phule Samarth.	Dr. S. G. Bhalekar
61	Mr. Rathod D.H.	13/211	Studies on Integrated Nutrient Management in rabi Onion(<i>Allium cepa</i> L.).	Dr. K. G. Shinde
62	Mr. Avhad A. B.	13/212	Studies in Integrated Nutrient Management in Hybrid Tomato (<i>Solanum lycopersicum</i> L.).	Dr. D. B. Kshirsagar
63	Mr. Mane P. V.	12/312	Studies on Effect of Lac Based wax on Extending the shelf Lif of Pomegranate (<i>Punica granatum</i> L.) cv. Bhagwa.	Dr. J. K. Dhemre
64	Miss. Nadkarni B. H.		Effect of Agro Techniques on Pollen Viability and Fruit Set in Custard Apple (<i>Annona squamosa</i> L.) cv. Balanagar.	Dr. V. S. Supe
2016				
65	Mr. Amit Simpi	014/327	Effect Of Bioagents And Biofertilizers On Growth And Survival of Pomegranate (<i>Punica granatum</i> L.) Layers.	Dr. H. K. Shirsath
66	Pathak K. K.	014/322	Micropropatgation studies in Pomegranate (<i>Punica granatum</i> L.) cv. Phule Bhagwa Super.	Dr. V. S. Supe
67	Miss. Khakate S. M.	014/323	Effrct Agro Techniques on Pollen Vibility and Fruit Set in Custard Apple (<i>Annona squamosa</i> L.) cv. Balanagar.	Dr. H. K. Shirsath
68	Doke N. D.	014/325	Effect of Ethylene on Physiplogical and Qualitive Changes During Ripening of Mango (<i>Mangifera indica</i> L.) cv. Kesar.	Dr. J. K. Dhemre
69	Mr. Rode V. R.	014/332	Genetic Varibility Studies In Okra (<i>Abelmoschus esculentus</i> (L.) Moenchl.	Dr. B. T. Patil
70	Jamdhade S. S.	014/335	Screening of Tomato (<i>Solanum lycopersicum</i> L.) Genotypes Under High Temperature Regime.	Dr. M. B. Shete
71	Ranpise P. S.	014/336	Genetic Diversity Studies In Okra (<i>Abelmoschus esculentus</i> (L.) Moench).	Dr. V. R. Joshi
2017				
72	Mr. Zaki Ahmad Faizi	015/323	Studies on Preparation of Carbonated Ready to Serve Beverage From Mandarin orange.	Dr.A.M. Musmade

73	Mr. Dhumal C. Y.	015/319	Standardization of Protocol for Preparation of Rabri From Different Fig (<i>Ficus carica</i> L.) Products.	Dr. J K. Dhemre
74	Mr. Kshirsagar A. V.	014/325	Effect of Different Beheading Levels on Initial Growth Parameters of Mango Under High Density Planting cv. Keshar and Vanraj.	Dr. S. S. Kulkarni
75	Miss. Patil S. S.	014/325	Effect of Plant Growth Regulators on Yield and Quality of Mango (<i>Mangifera indica</i> L.) cv. Keshar.	Dr. S. S. Kulkarni
76	Miss. Gade M. N.	015/321	Studies on Use of Organic Manures and Biofertilizers on Growth, Yield and Quality in Sweet Orange (<i>Citrus sinensis</i> (L.) Osbeck cv. Mosambi.	Prof. P. S./ Pawar
77	Mr. Gulave C. M	015/324	Effect of Agro Techniques on Pollen Viability and Fruit Set in Custard Apple (<i>Annonas squamose</i> L.) cv. Balanagar.	Dr. V. R. Joshi
78	Mr. Chikley H. M.	015/330	Effect of Sulphur on Growth Yield and Quality of Garlic (<i>Allium sativum</i> L.).	Dr. M. B. Shete
79	Miss. Gaganpreet M. S.	014/332	Studies on Weed Management In Garlic (<i>Allium sativum</i> L.).	Dr. B. T. Patil
80	Mr. Prashant Gourani	014/335	Heterosis and Combining Ability Studies in Tomato (<i>Solanum lycopersicum</i> L.).	Dr. M. B. Shete
81	Miss. Nangare S. B.	015/331	Effect of Salicylic Acid on Onion (<i>Allium cepa</i> L.).	Dr. S. S. Dighe
2018				
82	Lavhate S. B.	016/ 299	Clonal selection in Mango (<i>Mangifera indica</i> L) Cv. Keshar.	Dr. M.B.Shete
82	Korade V. N.	016/306	Evaluation of Dolichos Bean (Pawata type) Genotypes.	Dr. B.J.Shete
83	Londhe M. B.	016/307	Effect of plant growth regulators and micronutrients on fruit setting, yield, and quality of Tomato (<i>Solanum lycopersicum</i> L.) during summer season.	Dr. D. B .Kshirsagar
84	Pawar M. S.	016/309	Integrated nutrient management in Okra (<i>Abelmoschus esculentus</i> (L.) moench)cv. Phule Vimukata.	Dr. K.G.Shinde
85	Gangurde S. B.	016/308	Performance of Chilli genotypes under different planting time during summer season.	Dr. B.T.Patil
86	Miss. Mandlik V. S.	016/296	Effect of different chemicals on fruiting and yield of Mango (<i>Mangifera indica</i> L) cv. Keshar	Dr. S.S. Kulkarni

Thesis submitted by the students of Ph. D. in Horticulture during last seven years

Sr. No.	Name of the student	Reg. No.	Title of the Thesis	Name of Research Guide
2010				
1	S. B. Patil	07/024	Assessment of Variability in F ₃ and F ₄ Generation Tomato (<i>Solanum lycopersicum</i> L.) with Special Reference to Viral Disease Resistance.	Dr. M. N. Bhalekar
2	V. S. Jagtap	07/022	Heterosis and Combining Ability Studies in Muskmelon (<i>Cucumis melo</i> L.)	Dr. V. S. Supe
2011				
1	Mr. P. D. Dalve	07/23	Induced Mutation Studies in Okra	Dr. A. M. Musmade
2	Miss. S. R. Shinde	08/43	Heterosis and Combining Ability Studies in Bottle Gourd (<i>Lagenaria siceraria</i>).	Dr. V. A. Supe
3	Me. S. G. Patil	--	Heterosis and Combining Ability in Okra (<i>Abelmoschus esculentus</i> (L.) Moench.).	Dr. M. N. Bhalekar
2012				
1	Gaikwad S. P.	09/073	Evaluation of Progenies of Hybrid Derivatives of Tomato (<i>Solanum lycopersicum</i> L.) in F ₅ and F ₆ Generations with Special Reference to Leaf Curl Virus (TLCV) Resistance.	Dr. M.N. Bhalekar
2	Fikreyohannes G. M.	08/59	Evaluation of Tomato (<i>Solanum lycopersicum</i> L.) Genotypes for Processing Qualities.	Dr. M.N. Bhalekar
3	Rajput L. V.	06/027	Assessment of Variability studies I F ₂ and F ₃ Generations in Bitter Gourd (<i>Momordica charantia</i> L.).	Dr. R. S. Patil
2013				
1	Mr. Sonavane P. N.	10/75	Heterosis and combining ability studies in sponge gourd (<i>Luffa cylindrical</i> L.).	Dr. M. N. Bhalekar
2	Miss. Kohale V. S.	09/77	Effect of Time and Intensity of Pruning on Growth, Yield and Quality of Sharad Seedless Grapes.	Dr. S. A. Ranpise
3	Mr. Shirsath H. K.	7/25	Studies on Agro- Techniques in Guava (<i>Psidium guajava</i> L.) cv. Sardar I. High Density Planting II. Rejuvenation of Old Orchard.	Dr. R. S. Patil

4	Mr. Patil D. S.	08/44	Generation Mean Analysis in Muskmelon (<i>Cucumis melo</i> L.) for Yield and their Contributing Traits.	Dr. A. M. Musmade
5	Mr. Saitwal Y.S.	10/74	Morphological and Molecular Characterization in Custard Apple.	Dr. A. M. Musmade
2014				
1	Mr. Patil R. V.	08/047	Studies on Set Plantation for Kharif Onion (<i>Allium cepa</i> L.) in Respect of Bulb and Seed Crops.	Dr. R.S. Patil
2	Chalke P. R.	10/72	Morphological, Biochemical and Molecular Characterization in Grape cultivars.	Dr. P.V. Pail
3	Barhate S. G.	09/82	Heterosis and Combining Ability Studies in Chilli (<i>Capsicum annuum</i> L.).	Dr. A. M. Musmade
4	Marbhal S. K.	10/79	Heterosis, Combining Ability and Evaluation of F1 Hybrids of Cherry Tomato under different Growing Conditions.	Dr. S.A. Ranpise
2015				
1	Sonawane M. S.	11/75	Molecular Characterization of Pomegranate cv. Bhagwa and its Closely Related Genotypes.	Dr. V.S. Supe
2	Miss. Mali D. S.	11/76	Standardization of Pruning Techniques in High Density Planting of Guava (<i>Psidium guajava</i> L.) cv. Sardar.	Dr. S.A. Ranpise
3	Miss. Dahatonde K. N.	10/76	Studies on Processing and Value Addition of Bottle Gourd (<i>Lagenaria siceraria</i> (Mol.) Standl.).	Dr. A.M. Musmade
4	Mali M. D.	11/33	Genetic Studies in F ₃ and F ₄ Generations of Muskmelon (<i>Cucumis melo</i> L.).	Dr. A.M. Musmade
5	Mr. Bhosale A. B.	12/83	Genetic Studies in F ₂ and F ₃ Generations of <i>Acoross citrullus</i> Colosynthis & <i>Citrurullus lanatus</i> (Thunb.) Mansf. of Watermelon.	Dr. T. A. More
6	Mr. Ghondhli B. V.	011/78	Micro-propagation and Initiation of Transformation of Bacterial Blight Resistance in Pomegranate (<i>Punica Granatum</i> L.).	Dr. T. A. More
7	Mr. Sable P. A.	012/75	Effect of Paclobutrazol on Growth Yield and Quality Parameters of Grape Cv. Thompson Seedless.	Dr. S.S. Kulkarni
8	Mr. Ahire D. B.	012/79	Assessment of Different Rootstocks of Pomegranate (<i>Punica granatum</i> L.).	Dr. S. A. Ranpise

2016				
1	Gharge	010/80	Genetic Studies in Brinjal (<i>Solanum Melongena</i>).	Dr. S. A. Ranpise
2	Kharde R. P.	012/82	Fertigation and Irrigation Scheduling Studies in Brinjal (<i>Solanum Melongena</i> L.).	Dr. S. A. Ranpise
3	Alekar A. N.	013/77	Genetic Studies in F ₃ and F ₄ Generations of Bitter Gourd (<i>Momordica charantia</i> L.).	Dr. K. G. Shinde
2017				
1	Mr. Durgude R. A.	013/70	Studies Induction of Flowering in Pomegranate (<i>Punica granatum</i> L.) cv. Phule Bhagwa.	Dr. V. A. Supe
2018				
1	Miss. Nadkarni B. H.	015/63	Effect of Nutrient Scheduling on Yield and Quality of Pomegranate (<i>Punica granatum</i> L.) cv. Phule Bhagwa Super.	Dr. M. N. Bhalekar
2	Miss. Magar P. G.	014/65	Genetics Studies in Brinjal (<i>Solanaum Melongena</i> L.).	Dr. K. G. Shinde
3	Muthal K. M.	013/74	Heterosis and Combining Ability Studies in Pumkin. (<i>Cucurbita moschata</i> Duch).	Dr. M. N. Bhalekar
4	Mahesh B. K.	015/69	Effect of Salicylic Acid on Growth, Yield and Storage Quality of Onion (<i>Allium cepa</i> L.).	Dr. S.A. Ranpise

Research

The research is effectively conducted with wide ranging problems in the major horticultural crops at (i) Main Campus- Instructional-cum-Research Farm, Rahuri, Dist. Ahmednagar; (ii) Regional Fruit Research Station, Ganeshkhind, Pune; (iii) Onion and Grape Research Station, Pimpalgaon Baswant, (Dist. Nasik); (iv) Banana Research Station, Jalgaon and (v) Fig and Custard Apple Research Station, Jadhavwadi (Pune), (vi) Pomegranate Research and Technology Transfer Centre, Lakhmapur, (Dist: Nasik.) (vii) National Agricultural Research Projects located at Pune, Kolhapur, Solapur, Digraj (Dist. Sangli), Gadhinglaj (Dist. Kolhapur), Mahabaleshwar (Dist. Satara) and Igatpuri (Dist. Nasik).

The research activities are carried out by **eight** centrally funded ICAR, AICRP projects viz. Arid Zone Fruits (Rahuri), Fruits (Rahuri), Banana (Jalgaon), Custard apple and Fig (Jadhavwadi), Vegetables (Rahuri), Potato, GK (Pune); Floriculture (Pune) and **ten State** funded schemes functioning in this department at various locations.

Since, inception of this department had developed/released **eighty eight** varieties and hybrids of different fruits (23), vegetables (53), flowers (10), plantation and spices crops (2). This department has developed **five hundred thirty two** recommendations on Good Agricultural Practices in fruit, vegetable, flower crops and Post Harvest Technology of horticultural crops. The Pomegranate, Acid Lime, Onion, Bottle and Bitter gourds, Cucumber and Flower crops varieties are most popular on the farmer's field.

Both the fundamental and applied research is being conducted in this Department through post graduate students, different AICRP centers and state funded schemes as well as with the help of ad-hoc research schemes. There are **eight ICAR** funded **AICRP** schemes and **ten State** funded schemes on vegetable, fruit and flower crops and post harvest technology are functioning in this department. These are as below.

A. ICAR Schemes

- AICRP on Arid Zone Fruits, Rahuri
- AICRP on Fruits, Rahuri
- AICRP on Vegetables, Rahuri
- AICRP on Banana, Jalgaon
- AICRP on Floriculture, NARP, Pune
- AICRP on Fig and Custard apple, Jadhavwadi, Pune
- AICRP on Potato, NARP, Pune
- AICRP on Betelvine, Rahuri

B. STATE Schemes

- Bringing Labour on Regular Establishment under HOD Horticulture
- G1 scheme under HOD Horticulture
- Tomato Improvement Project, Rahuri
- Scheme for Research on Onion Storage, Rahuri
- Grape Research Station, Pimpalgaon Baswant, Dist Nasik
- Onion Research Station, Pimpalgaon Baswant, Dist Nasik
- Pomegranate Research and Technology Transfer Centre, Lakhmapur, Dist: Nasik
- Vegetable Improvement Project, Ganeshkhind, Pune
- Regional Fruit Research Station , Ganeshkhind, Pune
- Turmeric Research Station, Kasbe Digras, Dist Sangli

Varieties Developed

Since the inception of this department had developed/ released the **90** varieties and hybrids of different fruit, vegetable, flower, plantation and spices crops. This comprises of **23** varieties in **eleven** fruit crops, **55** varieties in **twenty** vegetable crops, **ten** in three flower crops, **two** in plantation and spices and **532** agro-techniques of different fruit, vegetable and flower crops, for enhancing productivity and production of horticultural crops.

Sr. No.	Crop	Name of Variety
A. Fruit Crops (23)		
1.	Pomegranate (9)	Ganesh, G-137, P-23, P-26, Mridula, Phule Arakta, Bhagwa, Phule Bhagwa Super & Phule Anardana
2.	Kagzi lime (2)	Sai Sharbati, Phule Sharbati
3.	Sweet orange (2)	Mosambi, Phule Mosambi
4.	Mango (2)	Sai Sugandh (F1), Phule Abhiruchi
5.	Guava (1)	Sardar (L-49)
6.	Grape (1)	Cheema Sahebi
7.	Custard apple (2)	Phule Purander, Phule Janaki
8.	Fig (1)	Phule Rajewadi
9.	Banana (1)	Phule Pride
10.	Papaya (1)	Phule Vijaya
11.	Ber (1)	Phule Shabari
B. Vegetable crops (53)		
1.	Brinjal (6)	Manjari Gota, Vaishali, Pragati, Krishna (F1), Phule Harit, Phule Arjun (F1)
2.	Chilli (5)	Phule Jyoti, Agnirekha, Phule Suryamukhi, Phule Sai, Phule Mukta
3.	Bitter gourd (4)	Hirkani, Phule Green Gold, Phule Ujwala, Phule Priyanka (F1)
4.	Bottle gourd (1)	Samrat
5.	Tomato (6)	Bhagyashree, Dhanashree, Rajashree (F1), Phule Raja (F1), Phule Kesari, Phule Jayshree
6.	Cucumber (4)	Himangi, Phule Shubhangi, Phule Prachi (F1), Phule Champa F1)
7.	French bean (2)	Phule Surekha, Phule Suyash
8.	Garlic (4)	Godawari, Sweta, Phule Baswant, Phule Neelima

9.	Okra (3)	Phule Utkarsha, Phule Kirti (Hy.), Phule Vimukta
10.	Sponge gourd (2)	Phule Prajakta, Phule Komal
11.	Ridge gourd (1)	Phule Sucheta
12.	Snake gourd (1)	Phule Vaibhav
13.	Dolichos bean (3)	Phule Gauri, Phule Ashwini, Phule Suruchi
14.	Broccoli (1)	Ganesh Broccoli
15.	Pea (1)	Phule Priya
16.	Radish (1)	Ganesh Synthetic
17.	Cluster been (1)	Phule Guar
18.	Lettuce (1)	Phule Padma
19.	Onion (7)	N-53, N2-4-1, N-257-9-1, Baswant-780, Phule Safed, Phule Suvarna, Phule Samarth
20	Fenugreek (1)	Phule Kasturi
C. Flower crops (10)		
1.	China aster (4)	Phule Ganesh White, Phule Ganesh Violet, Phule Ganesh Pink, Phule Ganesh Purple
2.	Gladiolus (4)	Phule Ganesh, Phule Neelrekha, Phule Tejas, Phule Prerna
3.	Tuberose (2)	Phule Rajani , Phule Rajat (GK-T-D-1)
D. Plantation & Spices crops (2)		
1	Betelvine (2)	Krishna Pan
2.	Turmeric (1)	Phule Swarupa

Technologies Developed

Sr. No.	Particulars	Number
1	Fruit crops	145
2	Vegetable crops	96
3	Flower crops	27
4	Postharvest technology of horticultural crops	68
5	Silviculture and agro-horti-forestry	4
6	Aromatic plants	3
7	Vegetable seed production	3
8	Plant protection including IPM on horticultural crops	185
	Total	532

Recommendations on Student's Research

Impact of students Research –New variety/technology developed:

Following number of agro-techniques were developed through Ph. D students and recommended for implementation through Joint Argesco in respective year for beneficial to farmer community. The details as below-

Dr. H. K. Shirsath: Ph. D. Reg. No. 07/25

Recommendation: High density planting in guava

Ultra high density plantation with 2 x 1 m spacing or high density plantation with 3 x 2 m spacing is recommended for guava plantation to obtain early and profitable fruit production during initial period (3.5 years) of orchard management.

Dr. R. V. Patil: Ph. D. Reg. No. 08/47

Recommendation: Onion Set plantation technique

A 'set plantation technique' of onion is recommended for achieving early maturity, higher bulb production and profitability of pre *kharif* onion. For set preparation sowing of onion seeds (20 g/ 6m²) should be done in second fortnight of January and sets be harvested after 90 days from sowing for getting 1.0 to 2.5 cm diameter set size. The transplanting of stored sets should be done from second fortnight of June for better quality onion production within 70 to 75 DAT. For better marketable yield and storage (3 months) quality one pre- harvest spray of carbendazim @ 10 g + sticker 10 ml /10 lit. of water should be taken at 10 days prior to harvest. The harvested bulbs along with tops should be shade cured for 10 days.

Recommendation: Onion seed production through bulbs produced via set plantation technique

It is recommended to use of 2.5 months stored onion seed–bulbs produced particularly via "Set Plantation Technique" for 15th November planting alongwith application of sugarcane trash (0.5 kg/m²) at 60 days after planting (an organic mulch) for upscaling of seed production potential particularly of *kharif* onion cultivars in Maharashtra State.

Dr. S. B. Jadhav: Ph. D. Reg. No. 2009/74

Recommendation: Rejuvenation of local senile mango orchard

Rejuvenation and improvement of local, senile mango orchards under Western Maharashtra conditions is recommended through Top-working technique, where tree beheading be done at 2 m from ground level during November-December followed by wedge grafting with improved cultivar (e.g. Keshar) during February-March, respectively.

Dr. Dhanaji Mali: Ph. D. Reg. No. 2011/76

Recommendation: Canopy Management in HDP guava

After initial phase of 3.5 years of high density guava plantation (2 x 2m and 3 x 2 m), heading back to the last two season growth in second fortnight of May, is recommended for canopy management and high yield as advancement of technology.

Dr. Ram Kharde: Ph. D. Reg. No. 012/082

Recommendation: Fertigation in Brinjal

The scheduling of alternate day drip irrigation at 70 % crop evapo-transpiration along with fertigation at 80 % recommended dose through water soluble fertilizers at 8 days interval is recommended for maximum yield (490-500 q/ha) of brinjal hybrid. However under limited water conditions, the scheduling of alternate day drip irrigation at 50 % crop evapo-transpiration along with fertigation at 80% recommended dose through water soluble fertilizers at 8 days interval is recommended for optimum yield (380-390 q/ha) of brinjal hybrid.

Research Farm

Modern Instructional-cum-Research Farm of Horticulture is developed on 230 hectare in this department which is under various orchards, research schemes, PG research and germplasm including mother orchard for nursery. The major fruits so far are mango, guava, sapota, pomegranate, citrus, custard apple, ber, aonla and grape as well as germplasms of these fruit crops on more than 100 hectare on large scale. Also separate post graduate research farm with all facilities are available for students. Post graduate research is also allotted in various research schemes in central campus.

Nursery Unit

The nurseries located at Central Campus, Rahuri, NARP, Pune and at constituent colleges (Pune, Dhule, Kolhapur, Nandurbar and Karad) to produce genuine planting materials and large number of the same are supplied to farmers throughout the country. Planting material more than 1.25 crores of various fruit crops viz. mango, sapota, guava, pomegranate, aonla, acid lime, sweet orange etc. are produced and supplied to farmers and nurseries. Every year more than twelve lakhs of saplings, layers, grafted plants of major fruit crops are produced and distributing among needy farmers. Nursery unit is supported with modern polyhouses, shade houses along with hardening units with all advanced technology is used for production of genuine planting materials.



Seed Production

Seed of various stages of important vegetable crops are also processed by the various schemes. The major share is of onion seed for which more demands from farmers. Cucumber, bottle and bitter gourd are also very important. Aster, Tuberose and Gladiolus are also popular in farmers in flower crops.

Extension Activities

All the faculties in teaching and research in this department, as per their field of specialization, participate in extension education activities conducted at headquarter, outstations, research stations, KVKs, farmers fields, etc. in collaboration with field functionaries of Government or Non-Government organizations. Technical staff of this department is always busy in solving problems of farmers in horticulture crops and guiding farmers through various farmer rallies and farmers forums.

Publications

Research papers published by scientist during last seven years

Sr. No.	Title of Research paper	Name of journal along with Vol. No., page no. and year	Authors	NAAS rating
Indian Journal				
2012				
1.	Morphological and physiological changes associated with growth and development of pomegranate fruit	Ind. journal of Arid Hort. vol. 7(1-2) : 68-70	V. S. Supe, V. R. Joshi and Y.S. Saitwal	3.94
2.	Phule Arjun: A promising Brinjal hybrid for Western Maharashtra	J. Agric. Res. Technol. 2012, 37 (2):pp.223-27,	Shinde K. G., M. N. Bhalekar and B. T. Patil	4.18
3.	Studies on gene action and gene effects for fruit yield and seed attributes in Chilli (<i>Capsicum annuum</i> L.)	Prog. Agric. 2012, 12 (1):pp. 209-213.	Patil B. T., M. N. Bhalekar, K. G. Shinde and S. S. Dhumal	2.89
4.	Heterosis studies in Chilli (<i>Capsicum annuum</i> L.) for earliness growth and green fruit yield	Veg. Sci. 2012, 39 (1): pp. 73-75.	Patil B. T., M. N. Bhalekar and K. G. Shinde	4.98
5.	Characterization in Brinjal (<i>Solanum melongena</i> L.) germplasm	Veg. Sci. 2012,39 (2):pp. 186-188	Shinde K. G., M. N. Bhalekar and B. T. Patil	4.98
6.	Weed management in Kharif Onion	Indian J. Weed Sci. 2012, 44 (4):pp.268-270	Shinde K. G., M. N. Bhalekar and B. T. Patil	5.17
7.	Economic feasibility of different training systems in	J. Agric. Res. Tech., (2012): 144-	S. S. Bhokare and S. A. Ranpise	3.2

	bitter gourd (<i>Momordica charantia</i> L.) cv. Konkan Tara under konkan conditions of Maharashtra	146, 37(1)		
8.	Evaluation of progenies of hybrid derivatives of tomato (<i>Solanum lycopersicum</i> , L.) in F ₅ with special reference to tomato leaf curl virus resistance.	Eco. Env. And Cons. 201218 (2) : 111-114	S. P. Gaikwad, M. N. Bhalekar, D. B. Kshirsagar and C. A. Nimbalkar	4.89
2013				
9.	Effect of mulching and chemical treatments on shelf life of mango cv. Keshar.	<i>BIOINFOLET</i> . (2013) 10(1B) 270-272.	Kulkarni S. S., P. H. Yeole and S. V. Kolase	3.75
10.	Effect of pruning on quality of Sharad seedless grapes.	Bionfolet ,2013 , (1B) : 291-294	V. S. Kohale and S. A. Ranpise	3.75
11.	Effect of pruning on fruiting Sharad Seedless grapes	Bionfolet ,2013 , (1B) : 300-302	V. S. Kohale and S. A. Ranpise	3.75
12.	Effect of drip irrigation and fertigation on growth and yield of gerbera under poly house condition.	J. Agric. Res. Technol. 37(2): 285-288	Firke N. N., Takte R. L., Bhosale A. B. and D. D. Jagtap	4.2
13.	Effect of plant growth regulators and chemicals on yield of acid lime <i>Citrus auranti foli a</i> , swingle , during hasta bahar.	Bioinfolet:13(1B): 175-177	Pawar P. S., Jagtap D. D. and Patil D. D.	4.2
14.	Genetic diversity study in <i>Annona</i> genotype by morphological and biochemical parameters	Flora and fauna PP 282-287	V. S. Saitwal, A. M. Musmade, S. S. Mehetre, V. S. Supe, A. A. Kale, V. R. Joshi	3.2
15.	Genetic variability and diversity studies in pea (<i>Pisum sativum</i> L.)	J. Agric Res Technology PP. 196-20038(2)	V. S. Supe, S. D. Patil and V. R. Joshi	--
16.	Response of foliar feeding of water soluble fertilizers in Onion	J. Agric. Res. Technol. 2013, 38 (1): pp. 11-14	Shinde K. G., M. N. Bhalekar and B. T. Patil	4.18
17.	Genetic divergence in Garlic (<i>Allium sativum</i> L.)	J. Agric. Res. Technol. 2013,38 (2) : pp. 218-221	Patil. B. T., M. N. Bhalekar and K. G. Shinde	4.18
18.	Weed management in rabi onion (<i>Allium cepa</i> L.).	J. Agric. Res. Technol. 2013,38 (2) :pp. 323-325	Shinde K. G., M. N. Bhalekar and B. T. Patil	4.18
19.	Study on genetic variability, heritability and genetic	International Journal of Plant Sciences	S. A. Patel, D. B. Kshirsagar , A. V.	4.31

	advance in tomato	2013 8 (1) : 45-47	Attar and M. N. Bhalekar	
20.	Correlation studies in tomato (<i>Solanum lycopersicum</i> L.).	Vegetable Science 2013 40 (2) : 217-218	S. A. Patel, D. B. Kshirsagar , M. N. Bhalekar and N. S. Kute	4.98
21.	Transgressive segregation in F ₃ generation of intervarietal crosses of tomato (<i>Solanum lycopersicum</i> L.).	Vegetable Science 2013 40 (2) : 229-231	D. B. Kshirsagar , M. N. Bhalekar, R. S. Patil, N. S. Kute and S. B. Patil	4.98
2014				
22.	Evaluation of Lilium cultivars for growth and yield under shade net conditions	J. Agric. Res. Tech, (2014) 39 (1) : 27-29	Sarvate Seema and S. A. Ranpise	3.2
23.	Effect of integrated nutrient management on yield of pomegranate	Ecology, Environment and Conservation, Supplementary Issue : 479-483, 2014	S. S. Dighe, S. D. Masalkar, S. S. Kulkarni, A. D. Kadlag, U. D. Chavan and R. S. Patil	4.89
24.	Weed management in cluster bean.	J. Agric. Res. Technol. 2014,39 (3):pp. 501-502	Patil B. T., M. N. Bhalekar and K. G. Shinde	4.18
25.	Heterosis studies in brinjal (<i>Solanum melongena</i> L.).	J. Agric. Res. Technol. 2014,39 (1):pp. 136-138	Shinde K. G., M. N. Bhalekar and B. T. Patil	4.18
26.	Evaluation of muskmelon (<i>Cucumis melo</i> L.) germplasm for yield contributing parameters.	J. Agric. Res. Technol. 2014, 39 (2):pp. 300-3013	Shinde K. G., M. N. Bhalekar and B. T. Patil	4.18
27.	Genetic variability, heritability and Genetic advance in F ₄ generation of inter-varietal crosses of tomato (<i>Solanum lycopersicum</i> L.).	Bioinfolet, 2014, 11 (2A) P.P. 311-313	Kshirsagar D. B., M. N. Bhalekar, R. S. Patil and N. S. Kute	3.75
28.	Transgressive segregation F ₄ generation of inter-varietal crosses of tomato (<i>Solanum lycopersicum</i> L.).	Bioinfolet, 2014,11 (2A) P.P. 314-315	Kshirsagar D. B., M. N. Bhalekar, R. S. Patil and S. B. Patil	3.75
29.	Effect of different mulches on growth and yield of onion cv. Phule Samarth.	Bioinfolet 2014,11 (2A) P.P. 316-318	Masalkar S. D., M. N. Bhalekar, B. V. Garad, K.K. Bhangre, U. S. Shinde, and R. H. Kolse	3.75
30.	Effect of deficit irrigation on growth, yield and quality of	Bioinfolet 2014,11 (2A) P.P. 341-343	Bhagyawant R. G., S. D. Gorantiwar, S. D.	3.75

	Onion.		Dahiwalkar, M. N. Bhalekar and D. D. Khedkar	
31.	Genetic variability, heritability and genetic advance in F4 generation of inter-varietal crosses of tomato (<i>Solanum lycopersicum</i> L.).	Bioinfolet, 2014 ,11 (2 A) : 311-313	D. B. Kshirsagar , M. N. Bhalekar, R. S. Patil and N. S. Kute	3.75
32.	Transgressive segregation in F4 generation of inter-varietal crosses of tomato (<i>Solanum lycopersicum</i> L.).	Bioinfolet, 2014 ,11 (2 A) : 314-315	D. B. Kshirsagar , M. N. Bhalekar, R. S. Patil, and S. B. Patil	3.75
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36.	Effect of BAP and NAA on In vitro shoot establishment and proliferation of Banana (<i>Musa paradisiacal</i>) cv. Grand Naine	International Journal of Science and Research vol4, Issue 5: 318-323	Million Paulos , V. R. Joshi and S. V. Pawar	--
37.	Effect of pruning time and intensities on growth and yield of custard apple (<i>Annona squamosa</i> L.) cv. Balanagar.	Research Journal of Agricultural Sciences Vol.6(4): 864-866	Kalbhor T. P., V. R. Joshi and R. A. Durgude	--
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