

Department of Horticulture

College of Agriculture
G.B. Pant University of Agriculture & Technology
Pantnagar-263145, Uttarakhand
Academics

Degree offered:

Sl. No.	Name of Major	No. of seats	
		UK Domicile	Other state
1.	Ph.D. Horticulture	04	01
2.	Ph.D. Horticulture (Floriculture & Landscaping)	04	01
3.	M.Sc. Ag. Horticulture	08	-
4.	M.Sc. Ag. Horticulture (Floriculture & Landscaping)	04	-

Courses offered:

UG Courses:

Sl.no	Course title	Course No.	Credit hours
1	Fruit and plantation crop	APH-315	3
2	Fundamental of Horticulture	APH-311	3
3	Ornamental Horticulture	APH-320	3
4	Nursery Management of Horticulture crops	APH-386	2
5	Integrated Storage Management of Horticultural crops	APH/APV-390	3
6	Nutrition gardening (Home Science)	APH/APV/APP-456	3
7	Agriculture for Engineers	APA/APS/APH-102	4

PG Courses:

- (i) M.Sc.Ag. (Horticulture)
- (ii) Ph.D. (Horticulture)
- (iii) M.Sc.Ag. Horticulture (Floriculture and Landscaping)
- (iv) Ph.D. Horticulture (Floriculture and Landscaping)

Programme of study for Masters:**(a) M.Sc. Ag. (Horticulture)**

Sl. No.	Course No. & Name of the Course	Credit Hrs	Remarks
A. Core Courses			
1.	APH-541, Tropical and dry land fruit production	3(2+1)	As per ICAR
2.	APH-542, Subtropical and Temperate fruit production	3(2+1)	As per ICAR
3.	APH-543, Biodiversity and conservation of fruit crops	3(2+1)	As per ICAR
4.	APH-546, Breeding of fruit crops	3(2+1)	As per ICAR
5.	APH-600, Master's seminar	1(1+0)	As per ICAR
Total:-		13	
B. Basic Supporting Courses			
1.	BPS-661, Experimental statistics	4(3+1)	Contd. as such
	APV-531, Production technology of cool season vegetable crops	3(2+1)	As per ICAR
Total:-		7	
C. Credits for Optional/Minor Courses(10 credits)			
1.	APH-544, Canopy management in fruit crops	2(1+1)	As per ICAR
2.	APH-511, Plant propagation and nursery husbandry	3(2+1)	Contd. as such
3.	APH-611, Growth and development of horticultural crops	3(2+1)	As per ICAR(old)
4.	APH-731, Post harvest physiology of horticultural crops	3(2+1)	Contd. as such
5.	APH-601, Special problem	1-2	Contd. as such
6.	APH-513, Orchard management	3(2+1)	Contd. as such
7.	APH-503, Systematic horticulture	3(2+1)	Contd. as such
8.	APH-554, Landscaping and ornamental gardening	3(2+1)	As per ICAR
9.	APH/APA-531, Medicinal, aromatic & underutilized crops	3(2+1)	Contd. as such
10.	BHS-610, Storage and retrieval of scientific information	1(1+0)	Contd. as such
Total:-		25-26	
D. Master's Thesis Research			
1.	APH-690, M.Sc. Thesis	20	As per ICAR

(b) M.Sc. Ag. Horticulture (Floriculture & Landscaping)

Sl. No.	Course No. & Name of the Course	Credit Hrs	Remarks
A. Core Courses			
1.	APH-551, Breeding of flower crops and ornamental plants	3(2+1)	As per ICAR
2.	APH-552, Production technology of cut flowers	3(2+1)	As per ICAR
3.	APH-553, Production technology of loose flowers	3(2+1)	As per ICAR
4.	APH-554, Landscaping and ornamental gardening	3(2+1)	As per ICAR
5.	APH-557, Turfing and turf management	3(2+1)	As per ICAR
6.	APH-600, Master's seminar	1(1+0)	As per ICAR
Total:-		16	
B. Basic Supporting Courses			
1.	BPS-661, Experimental statistics	4(3+1)	Contd. as such
Total:-		4	
C. Credits for Optional/Minor Courses (10 credits)			
1.	APH-503, Systematic Horticulture	3(2+1)	Contd. as such
2.	APH-511, Plant Propagation and nursery husbandry	3(2+1)	Contd. as such
3.	APH-611, Growth and development of horticultural crops	3(2+1)	As per ICAR(old)
4.	APH-656, Value addition in flowers	3(2+1)	As per ICAR
5.	APH-655, Protected floriculture	3(2+1)	As per ICAR
6.	APH/APA-531, Medicinal, aromatic & underutilized crops	3(2+1)	Contd. as such
7.	APH-731, Post harvest physiology of horticultural crops	3(2+1)	Contd. as such
8.	BHS-610, Storage and retrieval of scientific information	1(1+0)	Contd. as such
9.	APH-601, Special problem	1-2	Contd. as such
Total:-		23-24	
D. Master's Thesis Research			
1.	APH-690, M.Sc. Thesis	20	As per ICAR

Programme of study for Ph.D.

(a) Ph.D. Horticulture

Sl. No.	Course No. & Name of the Course	Credit Hrs	Remarks
A. Core Courses			
1.	APH-741, Advances in breeding of fruit crops	3(2+1)	As per ICAR
2.	APH-742, Advances in production of fruit crops	3(2+1)	As per ICAR
3.	APH-743, Advances in growth regulation of fruit crops	3(2+1)	As per ICAR
4.	APH-788, Doctoral seminar I	1(1+0)	As per ICAR
5.	APH-789, Doctoral seminar II	1(1+0)	As per ICAR
Total:-		11	
B. Basic Supporting Courses			
1.	BBC-501, General biochemistry	3(3+0)	Revised
2.	BBC-505, Basic techniques in biochemistry	1(0+1)	Revised
Total:-		4	
C. Credits for Optional Courses(5-6 credits)			
1.	APH-611, Growth and development of horticultural crops	3(2+1)	As per ICAR(old)
2.	APH-655, Protected floriculture	3(2+1)	As per ICAR
3.	APH-752, Advances in flower production technology	3(2+1)	As per ICAR
4.	APV-721, Advances in vegetable production	3(2+1)	As per ICAR
5.	APH-730, Nutrition of horticultural crops	3(2+1)	Revised
6.	APH-731, Post harvest physiology of horticultural crops	3(2+1)	Contd. as such
7.	APH-601, Special problem	1-2	Contd. as such
Total:-		19-20	
D. Credits for Minor Courses (10 credits)			
E. Ph.D. Thesis Research			
1.	APH-790, Ph.D. Thesis	45	As per ICAR

F. Minor package for students of other departments/majors

a) Compulsory courses:

- I. APH-541, Tropical and dry land fruit production 3(2+1)
- II. APH-542, Subtropical and Temperate fruit production 3(2+1)

b) Optional courses: minimum four credits of optional courses from the department

(b) Ph.D. Horticulture (Floriculture & Landscaping)

Sl. No.	Course No. & Name of the Course	Credit Hrs	Remarks
A. Core Courses			
1.	APH-751, Advances in breeding of flower crops	3(2+1)	As per ICAR
2.	APH-752, Advances in flower production technology	3(2+1)	As per ICAR
3.	APH-754, Advances in landscape architecture	3(2+1)	As per ICAR
4.	APH-788, Doctoral seminar I	1(1+0)	As per ICAR
5.	APH-789, Doctoral seminar II	1(1+0)	As per ICAR
Total:-		11	
B. Basic Supporting Courses			
1.	BBC-501, General biochemistry	3(3+0)	Revised
2.	BBC-505, Basic techniques in biochemistry	1(0+1)	Revised
Total:-		4	
C. Credits for Optional Courses(5-6 credits)			
1.	APH-611, Growth and development of horticultural crops	3(2+1)	As per ICAR(old)
2.	APH-730, Nutrition of horticultural crops	3(2+1)	Revised
3.	APH-655, Protected floriculture	3(2+1)	As per ICAR
4.	APH-656, Value addition in flowers	3(2+1)	As per ICAR
5.	APH-731, Post harvest physiology of horticultural crops	3(2+1)	Contd. as such
6.	APH-601, Special problem	1-2	Contd. as such
Total:-		16-17	
D. Credits for Minor Courses (10 credits)			
E. Ph.D. Thesis Research			
1.	APH-790, Ph.D. Thesis	45	As per ICAR