

**COLLEGE OF HORTICULTURE
ANAND AGRICULTURAL UNIVERSITY
ANAND - 388 110 (Gujarat)**



Dr. K. P. Patel
Dean, Horticulture

☎ / Fax : 02692-264076(O)
e-mail : deanagri@aau.in

Approval of correction for NSS courses of
B. Sc. (Hons.) Horti. Degree course

Read: Minutes of the 49th Meeting of Academic Council

NOTIFICATION

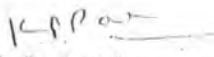
It is hereby notified to all concerned that vide item No. 49.13 in the minutes of the 49th Meeting of the Academic Council of the Anand Agricultural University held on 31.07.2018, the council has resolved as under.

“It is resolved that the members of Academic Council approves the change to mention courses of NSS/NCC/Physical Education & Yoga Practices in the syllabus of 1st and 3rd semester with ‘Nil’ credit and for 2nd and 4th semester with 1 (0+1) non credit for B. Sc. (Hons.) Horti. degree with no change in total credit hours as shown in Appendix-III. The change is to be implemented from the Academic Year 2018-19.”

Encl: Appendix I, II and III

No. AAU/COH/667-36/2018
Date: 16.08.2018

20


(K. P. Patel)

Dean,
College of Horticulture
AAU, Anand

Copy with respect to:

1. All the members of the Academic Council of AAU, Anand
2. All Officers of Anand Agricultural University, Anand
3. The Registrar, AAU, Anand

Copy to:

1. PS to Hon'ble Vice Chancellor, AAU, Anand
2. Academic branch, BACA/Horticulture College
3. Notification file of BACA/Horticulture College

**COLLEGE OF HORTICULTURE
ANAND AGRICULTURAL UNIVERSITY
ANAND - 388 110 (Gujarat)**



Dr. K. P. Patel
Dean, Faculty of Horticulture

☎ / Fax : 02692-261076(O)
e-mail : deanagri@aau.in

Approval of syllabus and course structure for B. Sc. (Hons.) Horticulture as per ICAR 5th Deans' committee recommendations

Read: Minutes of the 45th Meeting of Academic Council

NOTIFICATION

It is hereby notified to all concerned that vide item No. 45.19 in the minutes of the 45th Meeting of the Academic Council of the Anand Agricultural University held on 29.04.2017, the council has resolved as under.

"The Academic Council approved the syllabus of 5th Deans' Committee of ICAR for B. Sc. (Hons.) Horticulture course as appended for various courses in different disciplines (Appendix A), the detailed syllabus (Appendix B) and semester wise breakup with credit load (Appendix C) for its implementation in Anand Agricultural University, Anand for the students admitted from the academic year 2017-18."

Encl: Appendix A, Appendix B and Appendix C

No. AAU/COH/ 73 /2017
Date: 11.05.2017

(K. P. Patel)
Dean, Faculty of Horticulture
AAU, Anand

Copy with respect to:

1. All the members of the Academic Council of AAU, Anand
2. All Officers of Anand Agricultural University, Anand
3. The Registrar, AAU, Anand

Copy to:

1. PS to Hon'ble Vice Chancellor, AAU, Anand
2. Academic branch, BACA/Horticulture College, Anand
3. Notification file of BACA/Horticulture College

Appendix CSemester wise courses

Semester - I

Sr. No.	Course No.	Title of the Course	Credit Hours
1	FRT 1.1	Fundamentals of Horticulture	3(2+1)
2	NRMH 1.1	Fundamental of Soil Science	3(2+1)
3	PHT 1.1	Fundamentals of food science and nutrition	2(1+1)
4	BSC 1.1	Elementary Plant Biochemistry	2(1+1)
5	BSC 1.2	Principles of Genetics and Cytogenetics	3(2+1)
6	BSC 1.3	Introductory Microbiology	2(1+1)
7	SSC 1.1	Elementary Statistics and Computer Application	3(2+1)
8	SSC 1.2	Economics and Marketing	3(2+1)
9	SSC 1.3	Information and communication technology	2(1+1)
10	SSC 1.4	Physical and Health Education	1(0+1)(NC)*
Total			23(14+09)+1*=24

Semester - II

Sr. No.	Course No.	Title of the Course	Credit Hours
1	FRT 2.2	Plant Propagation and Nursery Management	2(1+1)
2	FLA 2.1	Ornamental Horticulture	2(1+1)
3	VEG 2.1	Tropical and Subtropical Vegetables	3(2+1)
4	NRMH 2.2	Soil Fertility and Nutrient Management	2(1+1)
5	NRMH 2.3	Water Management in Horticultural Crops	2(1+1)
6	PPT 2.1	Fundamentals of Plant Pathology	3(2+1)
7	NRMH 2.4	Agro-meteorology and Climate Change	2(1+1)
8	BSC 2.4	Introductory Crop Physiology	2(1+1)
9	BSC 2.5	Principles of Plant Breeding	3(2+1)
10	SSC 2.5	Communication Skills and Personality Development	2(1+1)
11	SSC 2.6	National Service Scheme/National Cadet Corp	1(0+1)(NC)*
Total			23(13+10)+1*=24

Semester - III

Sr. No.	Course No.	Title of the Course	Credit Hours
1	FRT 3.3	Temperate Fruit Crops	2(1+1)
2	VEG 3.2	Temperate Vegetable Crops	2(1+1)
3	VEG 3.3	Precision Farming and Protected Cultivation	3(2+1)
4	FLA 3.2	Commercial Floriculture	3(2+1)
5	NRMH 3.5	Organic Farming	2(1+1)
6	PPT 3.2	Fundamentals of Entomology	3(2+1)
7	PPT 3.3	Nematode pests of Horticultural crops and their Management	2(1+1)
8	BSC 3.6	Elementary Plant Biotechnology	2(1+1)
9	BSC 3.7	Growth and Development of Horticultural Crops	2(1+1)
Total			21 (12+9)

Semester – IV

Sr. No.	Course No.	Title of the Course	Credit Hours
1	FRT 4.4	Tropical and Subtropical Fruits	3(2+1)
2	FRT 4.5	Plantation Crops	3(2+1)
3	FRT 4.6	Breeding of Fruit and Plantation Crops	3(2+1)
4	VEG 4.4	Spices and Condiments	3(2+1)
5	FLA 4.3	Principles of Landscape Architecture	2(1+1)
6	PPT 4.4	Diseases of fruit, Plantation, Medicinal and Aromatic Crops	3(2+1)
7	PPT 4.5	Insect Pests of Fruit, Plantation, Medicinal & Aromatic Crops	3(2+1)
8	NRMH 4.6	Farm Power and Machinery	2(1+1)
9	NRMH 4.7	Soil, Water and Plant Analysis	2(1+1)
Total			24 (15+9)

Semester – V

Sr. No.	Course No.	Title of the Course	Credit Hours
1	FRT 5.7	Orchard and Estate Management	2(1+1)
2	FRT 5.8	Dry land Horticulture	2(1+1)
3	VEG 5.5	Potato and Tuber crops	2 (1+1)
4	VEG 5.6	Breeding of Vegetable, Tuber and Spice Crops	3 (2+1)
5	PHT 5.2	Postharvest Management of Horticultural Crops	3(2+1)
6	NRMH 5.8	Weed Management in Horticultural Crops	2 (1+1)
7	PPT 5.6	Diseases of Vegetables, Ornamentals and Spice Crops	3 (2+1)
8	PPT 5.7	Insect Pests of Vegetable, Ornamental and Spice Crops	3(2+1)
9	SSC 5.7	Fundamentals of Extension Education	2 (1+1)
Total			22 (13+9)

Semester – VI

Sr. No.	Course No.	Title of the Course	Credit Hours
1	VEG 6.7	Seed production of Vegetable, Tuber and Spice Crops	3(2+1)
2	FLA 6.4	Breeding and Seed Production of Flower and Ornamental Plants	3(2+1)
3	FLA 6.5	Medicinal and Aromatic Crops	3 (2+1)
4	PHT 6.3	Processing of Horticultural Crops	3(1+2)
5	NRMH 6.9	Introduction to Major Field Crops	2 (1+1)
6	NRMH 6.10	Introductory Agroforestry	2 (1+1)
7	NRMH 6.11	Environmental Studies and Disaster Management	3(2+1)
8	PPT 6.8	Apiculture, Sericulture and Lac culture	2(1+1)
9	SSC 6.8	Horti-Business Management	2(2+0)
10	SSC 6.9	Entrepreneurship Development and Business Management	2(1+1)
Total			25 (15+10)

Semester – VII

Experiential Learning programme

S.N.	Course No.	Title of the Course	Credit Hours
1	HWE 7.1	Protected cultivation of High Valued Horticultural Crops	0+10
2	HWE 7.2	Commercial production of Horticultural planting materials	0+10
3	HWE 7.3	Post Harvest Handling and Value addition in Horticultural crops	0+10
4	HWE 7.4	Floriculture and Landscape Architecture	0+10
5	HWE 7.5	Mass multiplication through tissue culture in horticultural crops	0+10
6	HWE 7.6	Bio fertilizers and bio pesticides	0+10

The student undergoing ELP may be allowed to register for a maximum two courses in which they have failed but completed requisite percentage of attendance.

Semester – VIII

Rural Horticultural Work Experience Programme

Sr. No.	Course No.	Title	Credit Hours
1	RHWE 8.1	Visit to progressive farmer's field and NGO	0+2
2	RHWE 8.2	Educational tour	0+2
3	RHWE 8.3	University farms (JAU) and Visit to horticulture based industries of Saurashtra region	0+4
4	RHWE 8.4	University farms (AAU) and Visit to horticulture based industries of Middle Gujarat region	0+4
5	RHWE 8.5	University farms (SDAU) and Visit to horticulture based industries of North Gujarat region	0+4
6	RHWE 8.6	University farms (NAU) and Visit to horticulture based industries of South Gujarat region	0+4

**B. A. COLLEGE OF AGRICULTURE
ANAND AGRICULTURAL UNIVERSITY
ANAND - 388 110 (Gujarat)**



Dr. K. P. Patel
Principal and Dean

☎ / Fax : 02692-261076(O)
e-mail : deanagri@aaui.in

Approval of discipline-wise corrected credit load as per ICAR 5th Deans' Committee recommendations.

Read: Minutes of the 46th Meeting of Academic Council

NOTIFICATION

It is hereby notified to all concerned that vide item No. 46.8 in the minutes of the 46th Meeting of the Academic Council of the Anand Agricultural University held on 21.07.2017, the council has resolved as under.

"It is resolved that the member of Academic Council approves the discipline-wise credit load distribution corrected as per 5th Deans' recommendations and ICAR suggestions for its implementation in the B.Sc. (Hons.) Agri. course as appended in Appendix- A, B and C for its implementation in Agriculture faculty of Anand Agricultural University, Anand after incorporating suggestions of the Deans meeting with ICAR held on May 25-26, 2017 for the students admitted from the academic year 2017-18."

Encl: Appendix A, Appendix B and Appendix C

No. AAU/BACA/TO/ 540 /2017
Date: 02.08.2017

(K. P. Patel)
Principal and Dean, BACA
AAU, Anand

Copy with respect to:

1. All the members of the Academic Council of AAU, Anand
2. All Officers of Anand Agricultural University, Anand
3. The Registrar, AAU, Anand

Copy to:

1. PS to Hon'ble Vice Chancellor, AAU, Anand
2. All the HoDs, BACA, Anand,
3. Academic branch, BACA/Horticulture College
4. Notification file of BACA/Horticulture College

College of Horticulture
Inward : 688
Date : 10/08/17

To
J/L Academic
Dr. Patel
20/8/17

Appendix-C

Semester wise Course Distribution
Faculty of Agriculture, AAU, Anand as per 5th Deans' Committee

First Semester

Sr. No.	Course No.	Title of course	Credit	Theory	Practical	Total
1.	Agron 1.1	Agricultural Heritage	1+0	1	0	1
2.	Ag. Chem. 1.1	Fundamental of Soil Science	2+1	2	1	3
3.	Ag. Met. 1.1	Introductory Agro meteorology & Climate Change	1+1	1	1	2
4.	Ag. Micro. 1.1	Agricultural Microbiology	1+1	1	1	2
5.	Ag. Stat. 1.1	Agricultural Informatics	2+1	2	1	3
6.	GPB 1.1	Introductory Biology	1+1	1	1	2
7.	Hort. 1.1	Fundamentals of Horticulture	1+1	1	1	2
8.	Pl. Path. 1.1	Fundamentals of Plant Pathology	2+1	2	1	3
9.	Eng. 1.1	Comprehension and Communication Skills in English	1+1	1	1	2
10.	Maths 1.1	Elementary Mathematics	2+0	2	0	2
11.	PE	NSS/NCC/Physical Education & Yoga Practices (Non-gradual)	-	-	-	-
Total				14	8	22

Second Semester

Sr. No.	Course No.	Total	Credit	Theory	Practical	Total
1.	Agron2.2	Fundamentals of Agronomy	3+1	3	1	4
2.	Ag. Chem. 2.2	Manures, Fertilizers and Soil Fertility Management	2+1	2	1	3
3.	Ag. Stat. 2.2	Statistical Methods	2+1	2	1	3
4.	Ag. Econ 2.1	Fundamentals of Agricultural Economics	2+0	2	0	2
5.	Ag. Engg.2.1	Introductory Soil and Water Conservation Engineering	1+1	1	1	2
6.	Biochem. 2.1	Fundamentals of Plant Biochemistry	2+1	2	1	3
7.	GPB 2.2	Fundamentals of Genetics	2+1	2	1	3
8.	Hort.2.2	Production Technology for Fruit and Plantation Crops	1+1	1	1	2
9.	Pl. Path. 2.2	Introductory Plant Nematology	1+1	1	1	2
10	HVE 2.1*	Human Value & Ethics (Non-gradual)	1+0	1*	0*	1*
		NSS/NCC/Physical Education & Yoga Practices (Non-gradual)	0+1*	0*	1*	1*
Total				16+1*	8+1*	24+2*

* Non-gradual courses

Third Semester

Sr. No.	Course No.	Title of course	Credit	Theory	Practical	Total
1.	Agron.3.3	Crop Production Technology-I (<i>Kharij/Crops</i>)	1+1	1	1	2
2.	Ag. Chem. 3.3	Problematic Soils and their Management	2+1	2	1	3
3.	Ag. Ento..3.1	Fundamentals of Entomology	2+1	2	1	3
4.	Ag. Econ.3.2	Agricultural Finance and Co-operation	2+1	2	1	3
5.	Ag. Engg.3.2	Farm Machinery and Power	1+1	1	1	2
6.	Ag. Ext. 3.1	Fundamentals of Agricultural Extension Education	2+1	2	1	3
7.	GPB 3.3	Fundamentals of Plant Breeding	2+1	2	1	3
8.	Hort.3.3	Production Technology for Vegetables and Spices	1+1	1	1	2
9.	Pl. Phy 3.1	Fundamentals of Crop Physiology	2+1	2	1	3
10.	BE	NSS/NCC/Physical Education & Yoga Practices (Non-gradual)	--	-	-	-
Total				15	9	24

Fourth Semester

Sr. No.	Course No.	Title of course	Credit	Theory	Practical	Total
1.	Agron.4.4	Crop Production Technology-II (Rabi Crops)	1+1	1	1	2
2.	Agron. 4.5	Weed Management	2+1	2	1	3
3.	Ag. Ento. 4.2	Principles of Integrated Pest Management	1+1	1	1	2
4.	Ag. Ento. 4.3	Management of Beneficial Insects	1+1	1	1	2
5.	Ag. Econ. 4.3	Agricultural Marketing, Trade and Prices	2+1	2	1	3
6.	Ag. Engg.4.3	Renewable Energy and Green Technology	1+1	1	1	2
7.	Ag. Ext. 4.2	Rural Sociology and Educational Psychology	2+0	2	0	2
8.	Pl. Path. 4.3	Principles of Integrated Disease Management	1+1	1	1	2
9.	GPB 4.4	Principles of Seed Technology	2+1	2	1	3
10.	GPB 4.5	Intellectual Property Rights	1+0	1	0	1
11.	Hort.4.4	Production Technology for Ornamental Crops, MAP and Landscaping	1+1	1	1	2
12.	BE	NSS/NCC/Physical Education & Yoga Practices (Non-gradual)	0+1*	0*	1*	1*
Total				15	9+1*	24+1*

* Non-gradual courses

Handwritten signature

Fifth Semester

Sr. No.	Course No.	Title of course	Credit	Theory	Practical	Total
1.	Agron.5.6	Farming System and Sustainable Agriculture	1+0	1	0	1
2.	Agron. 5.7	Geoinformatics and Precision Farming	1+1	1	1	2
3.	Agron. 5.8	Practical Crop Production-I (<i>Kharif</i> Crops)	0+1	0	1	1
4.	Biotech 5.1	Introductory Biotechnology	1+1	1	1	2
5.	Ag. Ento. 5.4	Pest of Crops and Stored Grains and their Management	3+1	3	1	4
6.	Ag. Engg. 5.4	Protected Cultivation and Secondary Agriculture	1+1	1	1	2
7.	Ag. Ext. 5.3	Communication Skills and Personality Development	1+1	1	1	2
8.	Pl. Path. 5.4	Diseases of Field and Horticultural Crops and Their Management-I	2+1	2	1	3
9.	GPB 5.6	Crop Improvement-I	1+1	1	1	2
10.	LPM 5.1	Ruminant Production and Management	2+1	2	1	3
11.	Hort.5.5	Landscaping	2+1	2	1	3
Total				15	10	25

Sixth Semester

Sr. No.	Course No.	Title of course	Credit	Theory	Practical	Total
1.	Agron. 6.9	Principles of Organic Farming	1+1	1	1	2
2.	Agron. 6.10	Rainfed Agriculture and Watershed Management	1+1	1	1	2
3.	Agron. 6.11	Practical Crop Production-II (<i>Rabi</i> Crops)	0+1	0	1	1
4.	Ag. Econ 6.4	Farm Management, Production and Resource Economics	2+1	2	1	3
5.	Ag. Ext. 6.4	Entrepreneurship Studies and Business Communication	1+1	1	1	2
6.	Pl. Path. 6.4	Disease of Field and Horticultural Crops and their Management-II	2+1	2	1	3
7.	GPB 6.7	Crop Improvement -II	1+1	1	1	2
8.	Hort.6.6	Post-harvest Management and Value Addition of Fruits and Vegetables	1+1	1	1	2
9.	LPM 6.2	Poultry Production and Management	1+1	1	1	2
10.	Envs. 6.1	Environmental studies and Disaster Management	2+1	2	1	3
11.	Ag. Micro 6.2	Biopesticides & Biofertilizers	2+1	2	1	3
Total				14	11	25

Seventh Semester

Sr. No.	Course No.	Title of course	Credit	Theory	Practical	Total
1.	RAWE/Student READY programme	Rural Agricultural Work Experience (RAWE) and Agro-Industrial Attachment (AIA) includes Exposure Tour course ET 7.6 (0+2)	0+20	0	20	20

Eighth Semester

Sr. No.	Course No.	Title of course	Credit	Theory	Practical	Total
1.	ELP/HOT	Experiential Learning Program (ELP)/ Hands On Training (HOT)	0+20	0	20	20
Grand Total			$144+3\text{ NC}+40=187$ (4+2 NC=Total 6 credits reduced)			

100%

REVISED

Semester – I

Sr. No.	Course No.	Title of the Course	Credit Hours
1	FRT 1.1	Fundamentals of Horticulture	3(2+1)
2	VEG 1.1	Tropical and Subtropical Vegetables	3(2+1)
3	NRMH 1.1	Fundamental of Soil Science	3(2+1)
4	PHT 1.1	Fundamentals of food science and nutrition	2(1+1)
5	BSC 1.1	Elementary Plant Biochemistry	2(1+1)
6	BSC 1.2	Principles of Genetics and Cytogenetics	3(2+1)
7	BSC 1.3	Introductory Microbiology	2(1+1)
8	SSC 1.1	Information and communication technology	2(1+1)
9	SSC 1.2	Economics and Marketing	3(2+1)
10	SSC 1.3	NSS/NCC/Physical Education & Yoga Practices	
Total			23(14+09)=23

Semester – II

Sr. No.	Course No.	Title of the Course	Credit Hours
1	FRT 2.2	Plant Propagation and Nursery Management	2(1+1)
2	FLA 2.1	Ornamental Horticulture	2(1+1)
3	NRMH 2.2	Soil Fertility and Nutrient Management	2(1+1)
4	NRMH 2.3	Water Management in Horticultural Crops	2(1+1)
5	PPT 2.1	Fundamentals of Plant Pathology	3(2+1)
6	NRMH 2.4	Agro-meteorology and Climate Change	2 (1+1)
7	BSC 2.4	Introductory Crop Physiology	2(1+1)
8	BSC 2.5	Principles of Plant Breeding	3(2+1)
9	SSC 2.4	Elementary Statistics and Computer Application	3(2+1)
10	SSC 2.5	Communication Skills and Personality Development	2(1+1)
11	SSC 2.6	NSS/NCC/Physical Education & Yoga Practices	1(0+1)(NC)*
Total			23(13+10)+1*=24

Semester – III

Sr. No.	Course No.	Title of the Course	Credit Hours
1	FRT 3.3	Temperate Fruit Crops	2(1+1)
2	VEG 3.2	Temperate Vegetable Crops	2(1+1)
3	VEG 3.3	Precision Farming and Protected Cultivation	3(2+1)
4	FLA 3.2	Commercial Floriculture	3(2+1)
5	NRMH 3.5	Organic Farming	2(1+1)
6	PPT 3.2	Fundamentals of Entomology	3(2+1)
7	PPT 3.3	Nematode pests of Horticultural crops and their Management	2(1+1)
8	BSC 3.6	Elementary Plant Biotechnology	2(1+1)
9	BSC 3.7	Growth and Development of Horticultural Crops	2(1+1)
10	SSC 3.7	NSS/NCC/Physical Education & Yoga Practices	--
Total			21 (12+9)

Semester – IV

Sr. No.	Course No.	Title of the Course	Credit Hours
1	FRT 4.4	Tropical and Subtropical Fruits	3(2+1)
2	FRT 4.5	Plantation Crops	3(2+1)
3	FRT 4.6	Breeding of Fruit and Plantation Crops	3(2+1)
4	VEG 4.4	Spices and Condiments	3(2+1)
5	FLA 4.3	Principles of Landscape Architecture	2(1+1)
6	PPT 4.4	Diseases of fruit, Plantation, Medicinal and Aromatic Crops	3(2+1)
7	PPT 4.5	Insect Pests of Fruit, Plantation, Medicinal & Aromatic Crops	3(2+1)
8	NRMH 4.6	Farm Power and Machinery	2(1+1)
9	NRMH 4.7	Soil, Water and Plant Analysis	2(1+1)
10	SSC 4.8	NSS/NCC/Physical Education & Yoga Practices	1(0+1)(NCC)*
		Total	24 (15+9) +1* =25