

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



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Implementation of Student READY
(Rural Entrepreneurship Awareness
Development Yojana) Programme in
Horticulture Faculty

Read: Minutes of the 45th Meeting of Academic Council

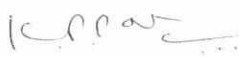
NOTIFICATION

It is hereby notified to all concerned that vide item No. 45.23 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 and gave post facto permission to implement Student READY programme keeping RHWE and ELP components with present evaluation system for under graduate programme B. Sc. (Hons.) Horticulture in Horticulture faculty of AAU, Anand for the fourth year students of the academic year 2016-17. The Academic council also approved implementation of Student READY programme as per **Appendix A** with present evaluation system for the students admitted till Academic year 2016-17 and with new evaluation system for the students admitted from the academic year 2017-18.”

Encl: Appendix A

No. AAU/COH/ 75 /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, AAU, Anand
3. Notification file of BACA/Horticulture College

Appendix A

STUDENT READY-EXPERIMENTAL LEARNING PROGRAMME/ ELP+RHWE 40 (0+40)

Practical

Students will practically gain hands on expertise for a semester in any two options out of commercial horticulture, protective cultivation of high value horticulture crops, processing of fruits and vegetables for value addition, floriculture and landscape gardening, production of bioinputs-biofertilizers and biopesticides, mass multiplication of plants and bio-molecules through tissue culture, mushroom culture and bee keeping. In one semester students will be working with horticulture farmers/horticulture based industries in collaboration with developmental departments, extension functionaries, input suppliers, marketing and procurement functionaries, processing industries.

1) EXPERIENTIAL LEARNING PROGRAMME 20 (0+20)

1. Module-I. Protected Cultivation of high Value Horticulture Crops (0 + 10):

HWE 7.1.1	Production of High Valued Crops	0+6
HWE 7.1.2	Packing and Marketing of High valued Horticultural Crops	0+4

Visit to commercial polyhouses, Project preparation and planning. Specialised lectures by commercial export house. Study of designs of green- house structures for cultivation of crops. Land preparation and soil treatment. Planting and production: Visit to export houses; Market intelligence; Marketing of produce; cost analysis; Visit to export houses; Market intelligence; Marketing of produce; cost analysis; institutional management. Report writing and viva-voce.

2. Module-II. Commercial production of Horticultural planting materials (0 + 10):

HWE 7.2.1	Propagation and production of propagules	0+6
HWE 7.2.2	Packing and Marketing of planting materials	0+4

Nursery production of fruit crops: Raising of rootstocks, grafting and budding of rootstocks, management of grafted plants, plant certification, packaging and marketing, quality control. Nursery production of ornamentals: Production of plantlets, production of potted plants, management and maintenance, sale and marketing. Protected cultivation of vegetables and flowers: Nursery raising/procurement and transplanting, management and maintenance of the crop, postharvest handling, quality control and marketing.

3. Module-III. Post Harvest Handling and Value addition in Horticultural crops (0 + 10) :

HWE 7.3.1	Preparation and evaluation of processed products	0+6
HWE 7.3.2	Packing and Marketing of processed products	0+4

Planning and execution of a market survey, preparation of processing schedule, preparation of project module based on market information, calculation of capital costs, source of finance, assessment of working capital requirements and other financial aspects, identification of sources for procurement of raw material, production and quality

analysis of fruits and vegetables products at commercial scale, packaging, labelling, pricing and marketing of product.

4. Module-IV. Floriculture and landscape architecture (0 + 10):

HWE 7.4.1	Planning, Layout and Design of landscape	0+6
HWE 7.4.1	Consultancy and maintenance of garden	0+4

Preparation of project report, soil and water analysis, preparation of land and layout. Production and Management of commercial flowers. Harvesting and postharvest handling of produce. Marketing of produce, Cost Analysis, Institutional Management, Visit to Flower growing areas and Export House, Attachment with private landscape agencies. Planning and designing, site analysis, selection and use of plant material for landscaping. Formal and informal garden, features, styles, principles and elements of landscaping. Preparation of landscape plans of home gardens, farm complexes, public parks, institutions, high ways, dams and avenues. Making of lawns, use of software in landscape. Making of bouquets, button hole, wreath, veni and gazaras, car and marriage palaces. Dry flower Technology (identification of suitable species, drying, packaging and forwarding techniques).

5. Module-V. Mass multiplication through tissue culture in horticultural crops (0 + 10):

HWE 7.5.1	Production of tissue culture plants	0+6
HWE 7.5.2	Packing and Marketing of tissue culture plants	0+4

Preparation of stock solutions of tissue culture media. Preparation of solid media and liquid media. Initiation of in vitro culture and multiplication (preparation of explant, inoculation and culturing) (crop to selected). Sub-culturing, Hardening and establishment, Initiation of callus cultures – suspension cultures, Induction of selected biomolecules in callus, Harvesting and extraction of biomolecule, Marketing and cost analysis.

6. Module-VI. Bio-inputs: Bio-fertilizers and bio-pesticides (0 + 10):

HWE 7.6.1	Production technology of bio fertilizers and bio pesticides	0+6
HWE 7.6.2	Packing and Marketing of bio fertilizers and bio pesticides	0+4

Isolation and pure culture establishment of fertilisers and bio-pesticides. Culture methods and substrates. Scale of methods for bio-fertilizers and bio-pesticides. Substrate preparation and mixing techniques. Quality analysis of bio-fertilizers and bio-pesticides. Testing the final product in small scale level. Storage, marketing and cost analysis of bio-fertilizers and pesticides.

Evaluation system for ELP

Work performance - 40 marks, Report writing & presentation – 20 marks and Semester End exam - 40 marks

2) **RURAL HORTICULTURAL WORK EXPERIENCE PROGRAMME (0+20)**

Sr. No.	Course No.	Title	Credit
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

Evaluation system for RHWE : Work performance - 25 marks, Report writing & presentation – 25 marks and Semester End exam - 50 marks