



Pir Mehr Ali Shah
ARID AGRICULTURE UNIVERSITY RAWALPINDI
Department of Horticulture



No. PMAS-AAUR/HORT/661

Date: 01/10/2020

Subject: **MINUTES OF 34th MEETING OF BOARD OF STUDIES**

34th meeting of Board of Studies, Department of Horticulture was held on 19th August, 2020 under the supervision of Chairman Dr. Muhammad Azam Khan at 03:00 pm. The meeting started with the recitation of holy verse by Prof. Dr. Ishfaq Ahmad Hafiz. The Following members were present in the meeting:

1. Dr. Muhammad Azam Khan
2. Prof. Dr. Ishfaq Ahmad Hafiz (By Invitation)
3. Dr. Imran Hassan
4. Dr. Touqeer Ahmad.
5. Ms. Najma Yousaf Zahid
6. Dr. Umer Habib
7. Dr. Irfan Ali
8. Dr. Tanveer Hussain

The following agenda Items were discussed one by one in detail

Item No 1: Revision/Development of Course:

Revision/Update of Courses: The detail discussion was made regarding revision and development of courses which is requirement of HEC. Revision of all existing courses in terms of theory & practical contents and addition of new books to educate the students with advanced research was done by all faculty members. The house recommended the following courses to get approval from academic council for becoming part of scheme of study: -

Undergraduate Courses in Horticulture

S. No.	Course Code	Course Title	Credit Hours
1.	HORT-301	Introductory Horticulture	3(2-2)
2.	HORT-302	Horticultural Crop Production	3(2-2)
3.	HORT-501	Principles of Fruit Production	4 (3-2)
4.	HORT-502	Tropical and Sub-Tropical Fruits	3 (2-2)
5.	HORT-503	Principles of Vegetable Production	3 (2-2)
6.	HORT-504	Summer Vegetables	3 (2-2)
7.	HORT-505	Principles of Ornamental Crop Production	3 (2-2)

8.	HORT-506	Landscape Horticulture	3 (2-2)
9.	HORT-507	Propagation and Nursery Management	3 (1-2)
10.	HORT-508	Post-Harvest Horticulture	3 (2-2)
11.	HORT-509	In vitro Propagation	2 (1-2)
12.	HORT-510	Medicinal and Aromatic Plants	3 (2-2)
13.	HORT-511	Vegetable and Flower Seed Production	3(2-2)
14.	HORT-512	Business Management	3(3-0)
15.	HORT-514	Indoor Plant culture and Scoping	3(2-2)
16.	HORT-601	Research Methods in Horticulture	4(1-4)
17.	HORT-603	Temperate Fruits	3(2-2)
18.	HORT-605	Winter Vegetables	3(2-2)
19.	HORT-607	Protected Horticulture	3(2-2)
20.	HORT-609	Breeding of Horticultural Crops	3(2-2)
21.	HORT-611	Arid Horticulture	2(1-2)
22.	HORT-612	Organic Horticulture	2(1-2)
23.	HORT-613	Commercial Flower Production	3(2-2)

Postgraduate Courses in Horticulture

S. No.	Course No.	Title of the course	Credit hours
1.	HORT-701	Mineral Nutrition of Horticultural Crops	3 (2-2)
2.	HORT-702	Plant Growth Regulators	3 (2-2)
3.	HORT-703	Environmental Horticulture	3 (2-2)
4.	HORT-704	Plant Tissue Culture	3 (1-2)
5.	HORT-705	Prospective Horticultural Crops	3 (2-2)
6.	HORT-706	Rootstock for Horticultural Crops	3 (2-2)
7.	HORT-707	Fruit Breeding	3 (2-2)
8.	HORT-708	Citriculture	3 (2-2)
9.	HORT-709	Mango and Date palm Culture	3 (2-2)
10.	HORT-710	Minor Fruits	3 (2-2)
11.	HORT-711	Vegetable Breeding	3 (2-2)
12.	HORT-712	Vegetable Seed Production and Marketing	3 (2-2)
13.	HORT-713	Solanaceous Crops	3 (2-2)
14.	HORT-714	Viticulture	3 (2-2)
15.	HORT-715	Mushroom Biology and Technology	3 (2-2)
16.	HORT-716	Landscape Designs	3 (2-2)
17.	HORT-717	Turfgrass Management	3 (2-2)
18.	HORT-718	Advanced Fruit Science	3 (2-2)
19.	HORT-721	Horticulture Seed Science and Technology	3 (2-2)
20.	HORT-722	Biotechnology of Horticultural Crops	3 (2-2)
21.	HORT-723	Physiology of Horticultural Plants	3 (2-2)
22.	HORT-724	Post-Harvest Physiology	3 (2-2)
23.	HORT-725	Horticultural Production under Abiotic Stresses	3 (2-2)
24.	HORT-726	Advanced Vegetable Science	3 (2-2)
25.	HORT-727	Landscape Ecology	3 (3-0)
26.	HORT-728	Oliviculture	3(2-2)

Adoption of Course of Organic Horticulture

The Board recommended the adoption of Organic Horticulture already existed in HEC scheme of studies to include in the scheme of studies at B.Sc (Hons.) level.

Hort. 612

ORGANIC HORTICULTURE

2(1-2)

Prerequisites

Specific Objectives

To impart training to the students for producing safe and other chemicals-free horticultural produce.

Theory

Introduction and importance of organic farming, Principles of organic horticulture, Selection and use of materials and resources, Soil fertility and plant nutrition under organic farming, Managing physical and chemical properties of growing substrate, Organic manure production/composting, Mulching, Tillage, Sustainability and environmental impact, Integrated farming system, Insect pests, weeds and disease control under organic system, Organic crop production of selected fruits, vegetables and flowering crops, Certification of organic produce.

Practical

Identification and production of organic fertilizers, developing organic fertilizer application Programme for different horticultural crops, Integrated weed and pest management, Organic crop production techniques in greenhouse and field, Visits to organic and non-organic progressive gardens.

Learning Outcomes

Students must know the techniques to prepare organic fertilizers and grow horticultural crops organically on sustainable basis.

Books Recommended

Arunkumar, R., K.R. Vijayalatha, K. Kannan, V. Thirumalmurugan, K. Latha and S.N. Kumar.

2008. Innovative Horticulture. New India publishing Agency, new Dehli, India.

Barker, A.V. 2010. Science and Technology of Organic Farming. CRC Press, Taylor & Francis Group, USA.

Davies, F. and L. Margi. 2006. Organic Vegetable Production: A Complete Guide. Henry Doubleday Research Association Publications, U.K.

Gehlot, D. 2005. Organic Farming Standards, Accreditation, Certification and Inspection. Agrobios (India), Agro House, Jodhpur, India.

Gillman, J. 2008. The Truth about Organic Gardening: Benefits, Drawbacks and the Bottom Line. Timber Press.

Gupta, S.K. 2008. Organic Vegetable Production. Rajat Publications, India.

Lampkin, N. 2002. Organic Farming. Old Pond Publishing 104 Valley Road Ipswich, IPI 4 PA UK.

Lind, G., K. Lafer, K. Scholfer and G. Innerhofer. 2003. Organic Fruit Growing. CAB International Publishing, Wallingford, U.K.

Palaniappan, S.P., S. Palaniappan and K. Annadorai. 2010. Organic Farming : Theory and Practices. Scientific publishers Jodhpur India.

Reddy, P. 2008. Organic Farming for Sustainable Horticulture. Jodhpur, Scientific

Journals/Periodicals

Worldwide Web

Development of New Courses:

Dr. Muhammad Azam Khan briefed the house about the observations of HEC review team during their visit in February 2020 that showed serious concerns about non development of new courses for post graduate degree programs. The chairman emphasis to develop new courses at under graduate and Post graduate degree levels according to the requirements of job market and keeping in view the location of our university. The house was briefed that in last 2 years we have developed three courses namely Viticulture, Oliviculture and Trufgrass Management.

The chairman suggested to work out a new course with the title of Urban Horticulture to meet the requirement/need of the market in the twin cities. The house discussed in detail and appraised the idea. In future department will prepare course on discussed outlines

Item No 2: Admission policy for Fall Semester 2020-21

Admission policy for M. Sc and Ph.D must be done as per university criteria. Selection of supervisor by M.Sc students must be routed through concerned supervisors consent and student should be provided format for their consent as described by DAS.

Item No 3: Courses for Fall Semester – 2020-21: were discussed and allocated according to the expertise of faculty members given as below.

List of Courses to be Offered in Fall Semester 2020-21

S. No.	Course Code	Credit Hours	Course Title	Teacher Name
B.Sc. (Hons) Agri. (Horticulture) 1st Semester				
1.	HORT-301	3(2-2)	Introductory Horticulture	Dr. Imran Hasan/ Dr. Usman Ali Abbasi
B.Sc. (Hons) Agri. (Horticulture) 5th Semester				
1.	HORT-501	4(3-2)	Principle of fruit Production	Dr. Irfan Ali
2.	HORT-503	3(2-2)	Principles of Vegetables Production	Ms. Najma Yousaf Zahid
3.	HORT-505	3(2-2)	Principles of Ornamental Crop Production	Mr. Usman Shoukat Qureshi
4.	HORT-507	3(1-4)	Propagation and Nursery Management	Mr. Usman Shoukat Qureshi

12/11

5.	HORT-509	2(1-2)	In Vitro Propagation	Dr. Touqeer Ahmad
6.	HORT-511	3(2-2)	Vegetable and Flower Seed Production	Dr. Tanveer Hussain
B.Sc. (Hons) Agri. (Horticulture) 7th Semester				
1.	HORT-601	3(2-2)	Research Methods in Horticulture	Dr. Umer Habib
2.	HORT-603	3(2-2)	Temperate Fruits	Dr. Irfan Ali
3.	HORT-605	3(2-2)	Winter Vegetables	Ms. Najma Yousaf Zahid
4.	HORT-607	3(2-2)	Protected Horticulture	Dr. Muhammad Azam Khan/ Dr. Tanveer Hussain
5.	HORT-609	3(2-2)	Breeding of Horticultural Crops	Prof. Dr. Ishfaq Ahmad Hafiz
M.Sc. (Hons) Agri. (Horticulture) 1st Semester				
1.	HORT-703	3(2-2)	Environmental Horticulture	Dr. Umer Habib
2.	Hort-725	3(2-2)	Horticultural Production under Abiotic Stresses	Ms. Najma Yousaf Zahid
3.	HORT-714	3(2-2)	Viticulture	Dr. Touqeer Ahmad
M.Sc. (Hons) Agri. (Horticulture) 3rd Semester				
1.	HORT-719	1(1-0)	Special Problem	Dr. Touqeer Ahmad
2.	HORT-720	1(1-0)	Seminar-I	Dr. Imran Hasan
3.	HORT-703	3(2-2)	Environmental Horticulture	Dr. Umer Habib

2. Any other point raised by faculty members:

Provision of courses related books and internet disconnection and signals interruption issue was raised by some faculty members. The chairman asked to submit list of books required by the faculty members for provision and will ensure internet facility soon so that teaching schedule may move smoothly.

At the end meeting was ended at 04:45 pm with vote of thanks by Chairman, Horticulture.

Confirmed by

Dr. Muhammad Azam Khan
Chairman

Najma
Najma Yousaf Zahid
Assistant Professor/Secretary Board