



**Department of Botany**  
**Keral Verma Faculty of Science**  
**SWAMI VIVEKANAND SUBHARTI UNIVERSITY**

(Established under U.P. Govt. Act no. 29 of 2008 and approved under section 2(f) of UGC Act 1956)  
Ph: 0121-2439578, 2439052, 3058031, 3056032, Telefax: 0121

KVSCOS/Botany/2016/05

**Date: 04/07/2016**

**Notice for Value Added Course**

All students are informed that the classes of following two value added course are going to start from this session which are mandatory to attend.

1. Horticultural Practices and Post-Harvest Technology
2. Plant Diversity and Human Welfare

  
**(HOD, Botany)**

  
**DEAN**  
SUBHARTI COLLEGE OF SCIENCE  
S.V.S.U., MEERUT

  
**Registrar**  
Swami Vivekanand  
Subharti University  
MEERUT

Course Name: **Horticultural Practices and Post-Harvest Technology (VAC 504 )**



**Course Offered by:**  
**Department of Botany**

**The objective of the program:**

To create interest in the students about the cultivation of different ornamental plants by various techniques and to promote eco-tourism.

**VALUE ADDED COURSES  
Session 2016-17  
REGISTRATION FORM**

**REGISTRATION FORM**

Name:.....

Enrolment No.....

Program:.....

Sem. & Year.....

Contact No./Mobile:.....

E-mail:.....

Course Opted:.....

Course Code:.....

Signature with date:.....

Contact Person (Course Coordinator)

Dr. Permod Kumar  
KERAL VERMA SUBHARTI SCHOOL OF  
SCIENCE  
Swami VivekanandSubharti  
University (SVSU), Meerut (UP)  
Mob. No. 7417519127  
[E-mail id: pkkalhra@gmail.com](mailto:pkkalhra@gmail.com)

**Course Schedule**

06.08.2016 to 25.08.2016  
**2.00 pm 4.00 pm**

## Course Content

<b>Course Name: Horticultural Practices and Post-Harvest Technology</b>	<b>Course Code: VAC-504</b>
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<b>Objectives:</b> To acquaint the students about Horticultural practices techniques and post-harvest technology.
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**Unit 1:** Introduction: Scope and importance, Branches of horticulture; Role in rural economy and employment generation; Importance in food and nutritional security; Urban horticulture and ecotourism.

**Unit 2: Ornamental plants:** Types, classification (annuals, perennials, climbers and trees); Identification and salient features of some ornamental plants [rose, marigold, gladiolus, carnations, orchids, poppies, gerberas, tuberose, sages, cacti and succulents (opuntia, agave and spurges)] Ornamental flowering trees (Indian laburnum, gulmohar, Jacaranda, Lagerstroemia, fishtail and areca palms, semul, coraltree).

**Unit 3:** Fruit and vegetable crops: Production, origin and distribution; Description of plants and their economic products; Management and marketing of vegetable and fruit crops; Identification of some fruits and vegetable varieties (citrus, banana, mango, chillies and cucurbits).

**Unit 4:** Horticultural techniques: Application of manure, fertilizers, nutrients and PGRs; Weed control; Biofertilizers, biopesticides; Irrigation methods (drip irrigation, surface irrigation, furrow and border irrigation); Hydroponics; Propagation Methods: asexual (grafting, cutting, layering, budding), sexual (seed propagation), Scope and limitations.

**Unit 5:** Landscaping and garden design: Planning and layout (parks and avenues); gardening traditions - Ancient Indian, European, Mughal and Japanese Gardens; Urban forestry; policies and practices. Floriculture, Post-harvest technology: Field and post-harvest diseases; IPM strategies (genetic, biological and chemical methods for pest control); Quarantine practices; Identification of common diseases and pests of ornamentals, fruits and vegetable crops. Horticultural crops IPR issues; National, international and professional societies and sources of information on horticulture

**Course outcome:** At the end of the course, a student would be able to –

- Gain **knowledge** about scope and importance of Horticultural crops.
- **Discuss** the role landscaping.
- **Classify** and **illustrate** Propagation Methods.
- **Detect** post-harvest diseases.
- **Explain** about quarantine practices.

**References:**

- 1 Singh, D. & Manivannan, S. (2009). Genetic Resources of Horticultural Crops. Ridhi International, Delhi, India.
- 2 Swaminathan, M.S. and Kochhar, S.L. (2007). Groves of Beauty and Plenty: An Atlas of Major Flowering Trees in India. Macmillan Publishers, India.
- 3 NIIR Board (2005). Cultivation of Fruits, Vegetables and Floriculture. National Institute of Industrial Research Board, Delhi.

  
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# Keral Verma Faculty of Science SWAMI VIVEKANAND SUBHARTI UNIVERSITY

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Ref. No.KVSCOS/Botany/2016/ 0/0

Date: 27.08.2016

## Report on Value Added Course

A value added course on “**Horticultural Practices and Post-Harvest Technology**” was conducted in Botany department for Final year students. The course starts on 06-08-2016. The session was handled by **Dr. Permod Kumar**, Botany on the need for **Horticultural Practices and Post-Harvest Technology**. On that session students learnt how to do natural resource properly and effectively and get good yield of silk. Students felt that this value added session on “**Horticultural Practices and Post-Harvest Technology**” was very much informative and useful for them and they got the basic idea for developing their knowledge about how to do plant effectively by choosing best species. It is planned to extend this value added training in the next semester with having more refined, advanced and practical knowledge about Horticulture field.

  
Dr. Raj Singh, (HOD)

  
Registrar  
Swami Vivekanand  
Subharti University  
MEERUT





**Students during value added course on Horticultural Practices**

### List of Students completed VAC

Name of Value-Added Course: **Horticultural Practices and Post-Harvest Technology**

Course Code: **VAC 504**

S. No.	Enrollment No	Name of Students
1.	1601010001917	KM. SHALU
2.	1601010001919	KM. SHIVANI
3.	1601010001933	MANPREET KAUR
4.	1601010001959	NEHA CHAUDHARY
5.	1601010001969	NISHU KUMARI
6.	1601010001970	NISHU SAINI
7.	1601010001977	POOJA
8.	1601010001980	POONAM
9.	1601010001985	PREETY SHARMA
10.	1601010001990	RAFIYA ALI
11.	1601010001991	RAHUL
12.	1601010002020	SHIKHA
13.	1601010002021	SHILPI SINGH
14.	1601010002032	SHUBHI TYAGI
15.	1601010002057	UMAR SHAHRUKH
16.	1606010001826	ADITYA SINGH RAJPUT
17.	1606010001833	AL YASHA
18.	1606010001843	ANKITA KACHHAP
19.	1606010001853	ARCHANA MALIK
20.	1606010001863	CHHAVI MALIK
21.	1606010001868	DEEPAK KUMAR RATHI
22.	1606010003195	GAURAV KUMAR
23.	1606010001393	JATIN TYAGI
24.	1606010001900	KAJAL TOMAR
25.	1606010001901	KAJAL TYAGI
26.	1606010001906	KM JYOTI
27.	1606010001909	KM SHAHANA CHOUDHARY
28.	1606010001920	KM. SWETA
29.	1606010001923	KOMAL CHAUDHARY
30.	1606010001931	MANISHA CHANDRA
31.	1606010001934	MANSI TOMAR
32.	1606010001935	MANSI YADAV
33.	1606010001942	MOHAMMAD ZUBAIR
34.	1606010001951	MOHSIN KHAN
35.	1606010001955	MUNNWAR ALI
36.	1606010001987	PRIYANKA CHAUDHARY
37.	1606010001988	PRIYANKA CHOUDHARY
38.	1606010002006	RUCHI BALIYAN
39.	1606010002010	SAMIA
40.	1606010002071	VISHAL CHAUDHARY

  
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 (HOD, Botany)





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Meerut**

**Keral Verma Faculty of Science**

**Department of Botany**

**Certificate of Value Added Course in  
Horticultural Practices and Post-Harvest  
Technology (VAC-504)**

This is to certify that **Mr./Ms. NIKHIL** has been successfully completed **his**/her value added course entitled **“Horticultural Practices and Post-Harvest Technology”** during **06-08-2016 to 25-08-2016**.

Dr. Raj Singh  
**HOD, Botany**

Dr. Permod Kumar  
**Course Coordinator**



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**Department of Botany**

**Certificate of Value Added Course in  
Horticultural Practices and Post-Harvest  
Technology (VAC-504)**

This is to certify that **Mr./Ms. ASHISH** has been successfully completed **his**/her value added course entitled **“Horticultural Practices and Post-Harvest Technology”** during **06-08-2016 to 25-08-2016**.

Dr. Raj Singh  
**HOD, Botany**

Dr. Permod Kumar  
**Course Coordinator**