



SRI MANAKULA VINAYAGAR  
ENGINEERING COLLEGE  
(AN AUTONOMOUS INSTITUTION)



## COLLEGE OF AGRICULTURAL SCIENCES

### Minutes of Meeting of 6<sup>th</sup> Board of Studies

Venue : Audio Visual Hall,  
Sri Manakula Vinayagar Engineering College

Organized : 1<sup>st</sup> April 2024 at 10.30 A.M.  
Date & Time



**COLLEGE OF AGRICULTURAL SCIENCES**

**Minutes of the 6<sup>th</sup> Board of Studies Meeting**

The minutes of the 6<sup>th</sup> Board of Studies meeting for B.Sc. (Hons.) Agriculture and B.Sc. (Hons.) Horticulture for the College of Agricultural Sciences held on 01<sup>st</sup> April 2024 at 10.30 am in the Audio Visual Hall, Sri Manakula Vinayagar Engineering College is appended.

The following members were present in the BoS meeting

Sl. No	Name of the Member with Designation and Official Address	Members (as per UGC Norms)
1	<b>Dr. G. Mohammed Yassin, Ph.D</b> Dean, College of Agricultural Sciences Sri Manakula Vinayagar Engineering College Madagadipet, Puducherry - 605107	Chairman
2	<b>Dr. S. Ramesh Kumar</b> Professor (Horticulture) Faculty of Agriculture, Annamalai University, Chidambaram, Tamil Nadu - 608002	Subject Expert (University Nominee)
3	<b>Dr. B. Karthikeyan</b> Associate Professor in Microbiology, Institute of Agriculture, National Pulses Research Centre Campus, Vamban Pudukottai, Tamil Nadu – 622001	Subject Expert (Academic Council Nominee)
4	<b>Dr. R. RAMAN</b> Professor and Director, Centre for Natural Farming and Sustainable Agriculture, Faculty of Agriculture, Annamalai University, Annamalai Nagar, Tamil Nadu - 608002	Subject Expert (Academic Council Nominee)
5	<b>Dr. R. Narasimman;</b> Jr. Rice Breeder Perunthalaiyar Kamaraj Krishi Vigyan Kendra (PKVK) Vazhudavoor Rd, Kurumbapet, Marie Oulgaret, Puducherry- 605009.	Representative from Industry
6	<b>Dr. A. A. Arivalagar,</b> Dean Academics (Core), Sri Manakula Vinayagar Engineering College, Madagadipet, Puducherry - 605107	Special Invitee

**Dr. G. MOHAMMED YASSIN, Ph.D.,**  
Dean  
School of Agricultural Sciences  
Sri Manakula Vinayagar Engineering College  
(An Autonomous Institution)  
Madagadipet, Puducherry - 605107

7	<b>Mr. V. Mohane,</b> Assistant Professor, College of Agricultural Sciences - SMVEC Madagadipet, Puducherry - 605107	Faculty Member (Crop Physiology)
8	<b>Mr. M. Selva Ganapathy,</b> Assistant Professor, College of Agricultural Sciences - SMVEC Madagadipet, Puducherry - 605107	Faculty Member (Agri. Economics)
9	<b>Mrs. J. Saroja,</b> Assistant Professor, College of Agricultural Sciences - SMVEC Madagadipet, Puducherry - 605107	Faculty Member (Agri. Entomology)
10	<b>Ms. K. Sowmia,</b> Assistant Professor, College of Agricultural Sciences - SMVEC Madagadipet, Puducherry - 605107	Faculty Member (Genetics and Plant Breeding)
11	<b>Ms. I. Indhuja</b> Assistant Professor, College of Agricultural Sciences - SMVEC Madagadipet, Puducherry - 605107	Faculty Member (Agri. Statistics)
12	<b>Mr. V. Rajendra Prasath,</b> Assistant Professor, College of Agricultural Sciences - SMVEC Madagadipet, Puducherry - 605107	Faculty Member (Agronomy)
13	<b>Mr. M. Prakash</b> Assistant Professor, College of Agricultural Sciences - SMVEC Madagadipet, Puducherry - 605107	Faculty Member (Spices and Plantation)
14	<b>Mr. S. Senthil Kumar,</b> Assistant Professor, College of Agricultural Sciences - SMVEC Madagadipet, Puducherry - 605107	Faculty Member (Agronomy)
15	<b>Mr. J. Sundaram,</b> Assistant Professor, College of Agricultural Sciences - SMVEC Madagadipet, Puducherry - 605107	Faculty Member (Fruit Science)
16	<b>Mrs. J. Vimal Keerthana,</b> Assistant Professor, College of Agricultural Sciences - SMVEC Madagadipet, Puducherry - 605107	Faculty Member (Plant Pathology)

  
**Dr. G. MOHAMED YASSIN, Ph.D.**,  
 Dean  
 School of Agricultural Sciences  
 Sri Manakula Vinayagar Engineering College  
 (An Autonomous Institution)  
 Madagadipet, Puducherry-605107.

### **Minutes of the meeting**

**Dr. G. Mohammed Yassin**, Chairman, welcomed the Board members and presented the Agenda of the Meeting

#### **BoS/2024/SAGS/6.1**

- 1 To confirm the Minutes of Fifth Board of Studies of B.Sc. (Hons.) Agriculture and B.Sc. (Hons.) Horticulture held on 25.08.2023**

As there are no remarks, the Board unanimously confirmed the minutes of the Fifth Board of Studies meeting for B.Sc. (Hons.) Agriculture and B.Sc. (Hons.) Horticulture held on 25.08.2023 (**Annexure I**)

#### **BoS/2024/SAGS/6.2**

- 2 To consider and approve of a few additional points in Breaking system for both B.Sc. (Hons.) Agriculture and B.Sc. (Hons.) Horticulture [as per the ICAR norms] under SMVEC Autonomous Regulations R2021.**

### **8. REGISTRATION OF ELECTIVE / EXPERIENTIAL LEARNING PROGRAMME (ELP) COURSES:**

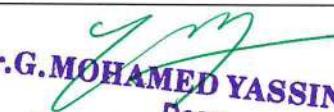
#### **8.1. Elective Courses**

- i. The elective courses are to be registered by B.Sc. (Hons.) Agriculture students.
- ii. Three elective courses are offered during IV, V and VI semesters.

#### **8.2. Experiential Learning (EL) Programme Courses**

- i. Experiential Learning course shall be offered during VIII Semester for both B.Sc. (Hons.) Agriculture and B.Sc. (Hons.) Horticulture
- ii. To get the eligibility for registering the EL programme, the students should have completed all the courses successfully. No student should be allowed to take up the EL programme with backlog/repeat courses.
- iii. A separate certificate should be issued to the students after successful completion of EL course.
- iv. A minimum of 10 and maximum of 40 students shall be allowed to register for a particular Experiential Learning Course. If number of students opted for a single Experiential Learning Course exceeds the maximum, then the merit of the student will be considered for allotment.

The Board approved the Rule 8 for inclusion in the College of Agricultural Sciences under SMVEC Autonomous Regulations R2021.

  
**Dr.G. MOHAMMED YASSIN, Ph.D.,**  
Dean  
School of Agricultural Sciences  
Sri Manakula Vinayagar Engineering College  
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Madagadiet, Puducherry-605107.

**BoS/2024/SAGS/6.3**

- 3 To consider and approve the use of abbreviations for awarding grades for the Non-Gradial courses viz., PED, NSS and Educational Tour.**

Under the rule 7.4 of the Academic regulations 2021, the following abbreviations are used

E	-	INCOMPLETE
F	-	FAILED
RR	-	RE-REGISTRATION

Now it is proposed to use the following abbreviations for awarding grades to the Non-Gradial courses viz., PED, NSS and Educational tour.

S	-	SATISFACTORY
NS	-	NON-SATISFACTORY

The Board approved the Rule 7.4 for inclusion of the above abbreviations **in the College of Agricultural Sciences under SMVEC Autonomous Regulations R2021.**

**BoS/2024/SAGS/6.4**

- 4 To consider and approve the provision for the conduct of arrear examinations.**

Under the Rule 7.11 of the Academic Regulations 2021, provisions are made **for the conduct of arrear examinations** as “the students are permitted to write the arrear examinations along with the regular semester examinations for the failed courses”.

Now it is proposed to permit the students to write the arrear examinations as and when it is necessarily required after obtaining necessary approval from the Institution instead of only writing along with the regular semester for the failed courses.

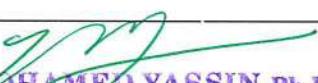
The Board approved the Rule 7.11 for inclusion above amendments **in the College of Agricultural Sciences under SMVEC Autonomous Regulations R2021.**

**BoS/2024/SAGS/6.5**

- 5 To consider and approve the alteration in the fixation of fees for different categories in the Academic programme.**

The fees are fixed for different categories in the Academic programme of College of Agricultural Science. Now it is felt that the fees so fixed are subject to change depending upon the categories with the approval of institution authority.

The Board unanimously approved.



Dr. G. M. MOHAMED YASSIN, Ph.D.,  
Dean  
School of Agricultural Sciences  
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**BoS/2024/SAGS/6.6**

- 6 To consider and approve the curriculum and syllabus of VIII semester for B.Sc. (Hons.) Horticulture degree programme in the College of Agricultural Sciences under SMVEC Autonomous Academic Regulations R2021.

The Board approved the curriculum and syllabus of VIII semester for B.Sc. (Hons.) Horticulture degree programme in the College of Agricultural Sciences under SMVEC Autonomous Academic Regulations 2021 (**Annexure II**).

**BoS/2024/SAGS/6.7**

- 7 To consider and approve the curriculum and syllabus for Remedial courses for B.Sc. (Hons.) Agriculture and B.Sc. (Hons.) Horticulture for Academic Regulations R2021

Under the rule 3.14 of the Academic Regulations 2021, provisions are made to offer Remedial (Biology) Courses which shall be offered to those students admitted through ICAR and have not studied biology/ agriculture/ forestry in their HSC/ intermediate programme and shall be offered in I semester.

So far, no students have been admitted through ICAR. However, the curriculum and syllabus for Remedial courses for B.Sc. (Hons.) Agriculture and B.Sc. (Hons.) Horticulture for 2021 Regulations is prepared and placed for approval. Since, the syllabus is common for B.Sc. (Hons.) Agriculture and B.Sc. (Hons.) Horticulture the course code & title shall be framed as U21CREMP112 Introductory Biology (1+1)

The Board approved the curriculum and syllabus for Remedial courses for B.Sc. (Hons.) Agriculture and B.Sc. (Hons.) Horticulture for Academic Regulations R2021 (**Annexure III**)

**BoS/2024/SAGS/6.8**

- 8 To consider and approve the Temporary suspension in offering B.Sc. (Hons.) Horticulture degree Programme during the Academic Year 2024-25 due to less admission (less than 50% of the sanctioned strength)

The admission strength of B.Sc. (Hons.) Horticulture degree Programme was found to be less than 50% of the sanctioned strength in the below mentioned years.

Academic Batch	Sanctioned Strength	Admitted Strength	Percentage
2021-25	100	48	48
2022-26	100	25	25
2023-27	100	-	-



Dr. G. MOHAMED YASSIN, Ph.D.,  
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During the Academic Year 2023-24, only less than 10 students joined B.Sc. (Hons.) Horticulture. Later they opted for B.Sc. (Hons.) Agriculture and got transferred. Hence in the Academic Year 2023-2024 B.Sc. (Hons.) Horticulture course was not offered.

The Board approved the temporary suspension in offering of B.Sc. (Hons.) Horticulture degree Programme for the Academic Year 2024-25

**BoS/2024/SAGS/6.9**

- 9 To consider and approve the list of External Examiners for the End semester (Final Theory) Examinations (Question paper setting and exam paper evaluation) in the respect of B.Sc. (Hons.) Agriculture and B.Sc. (Hons.) Horticulture for 2021 Regulations.**

The list of external examiners is approved by the Board for the End Semester (Final Theory) Examination for Question paper setting and exam paper evaluation with respect to B.Sc. (Hons.) Agriculture and B.Sc. (Hons.) Horticulture for 2021 Regulations (**Annexure III**)

The meeting was concluded at 11.30 P.M. with vote of thanks by **Mr. M. SELVA GANAPATHY**, Assistant Professor (Agri. Economics), College of Agricultural Sciences, Sri Manakula Vinayagar Engineering College.



Dr.G. MOHAMED YASSIN, Ph.D.,  
Dean  
School of Agricultural Sciences  
Sri Manakula Vinayagar Engineering College  
(An Autonomous Institution)  
Madagadet, Puducherry-605107.



SCHOOL OF AGRICULTURAL SCIENCES.

Minutes of 6<sup>th</sup> Board of Studies (01.04.2024)

Si. No	Name and members with designation and official address.	Member as per UGC norms	Signature
1	<b>Dr. G. Mohammed Yassin,</b> Dean, School of Agricultural Sciences Sri Manakula Vinayagar Engineering College, Madagadipet, Puducherry - 605107	Chairman	
2	<b>Dr. S. Ramesh Kumar,</b> Professor in Horticulture, Faculty of Agriculture, Annamalai University, Chidambaram - 608002	Subject Expert (University Nominee)	 11/4/2024
3	<b>Dr. B. Karthikeyan,</b> Associate Professor in Microbiology, Institute of Agriculture, National pulses research center campus, Vamban, Pudukottai - 622001	Subject Expert (Academic Council Nominee)	 B. Karthikeyan 11/4/2024
4	<b>Dr. R. Raman,</b> Professor and Director, Centre for Natural Farming and Sustainable Agriculture, Faculty of Agriculture, Annamalai University, Chidambaram - 608002	Subject Expert (Academic Council Nominee)	 R. Raman 11/4/2024
5	<b>Dr. R. Narasimman,</b> Jr. Rice Breeder, Perunthalaiyer Kamarajar Krishi Vigyan Kendra Vazhudavoor Rd, Kurumbapet Puducherry - 605009	Representative from Industry	 R. Narasimman 11/4/2024
6	<b>Dr. A.A. Arivalagar,</b> Dean Academics (Core), Sri Manakula Vinayagar Engineering College, Madagadipet, Puducherry - 605107	Special Invitee	 A.A. Arivalagar



DEAN Agriculture &lt;deanagri@smvec.ac.in&gt;

**SMVEC - SAGS - Minutes of 6th Board if Studies - Reg**

4 messages

**DEAN Agriculture** <deanagri@smvec.ac.in>

Tue, Apr 16, 2024 at 4:16 PM

To: karthi keyan B &lt;bkeyan473@gmail.com&gt;, Rajamani Ramaq &lt;ramanagron@gmail.com&gt;, Rameshkumar Srinivasan &lt;rameshflora1974@gmail.com&gt;, naras65@gmail.com, DEAN ACADEMIC smvec &lt;deanacademic1@smvec.ac.in&gt;

Dear Sir,

Please find the attachment files of 6th BoS

**With Regards...****Dr.G.Mohamed Yassin, Ph.D.,****DEAN,****School of Agricultural Sciences,****Sri Manakula Vinayagar Engineering College,****Madagadipet, Pondicherry - 605 107.****Contact : 9080443163.****3 attachments**
**Remedial course.docx**

15K

**Minutes of 6th BOS.docx**

61K

**Horti VIII.docx**

40K

**kartikeyan B** <bkeyan473@gmail.com>

Sat, Apr 27, 2024 at 9:42 PM

To: DEAN Agriculture &lt;deanagri@smvec.ac.in&gt;

Dear sir,

I have gone through minutes of 6th board of studies are found to be correct.  
. It can be send to the university for further approval.

Thanking you

Yours faithfully

Dr. B. Kartikeyan

[Quoted text hidden]

**MyNarasimman** <naras65@gmail.com>

Sun, May 5, 2024 at 3:14 AM

To: DEAN Agriculture &lt;deanagri@smvec.ac.in&gt;

Sir,

I have gone through the syllabus content of BSc ( Hons) Horticulture ( VIII semesters) and the minutes of the sixth BOS meeting held on 01-04-2024.

The syllabus contents have been revised as per the discussions held during the BOS meeting. Hence the syllabus may be approved to proceed further.

With regards,

R. NARASIMMAN

[Quoted text hidden]

**Rameshkumar Srinivasan** <rameshflora1974@gmail.com>

Tue, May 7, 2024 at 10:19 AM

To: DEAN Agriculture &lt;deanagri@smvec.ac.in&gt;

Dear Sir,

I have gone through the Minutes of the BOS,

It holds good as, discussed in the BoS Meeting.

I accept to proceed further,

Regards

Rameshkumar

[Quoted text hidden]



DEAN Agriculture &lt;deanagri@smvec.ac.in&gt;

## 6th BoS minutes

1 message

Rajamani Raman <ramanagron@gmail.com>  
To: DEAN Agriculture <deanagri@smvec.ac.in>

Thu, May 2, 2024 at 7:56 AM

Dear Sir

Greetings

I have carefully reviewed the minutes of the Board of Study meeting and the updated curriculum for both the B.Sc Agri and Horti programs for the 6th BoS based on the discussion held there. As per our discussion everything is perfect.

--  
Kind Regards

Dr.R.RAMAN,Ph.D  
Professor of Agronomy &  
Director

Centre for Natural Farming & Sustainable Agriculture  
Faculty of Agriculture  
Annamalai University  
Annamalai Nagar 608 002  
Tamil Nadu  
mobile: +91 9842438850/ +91 7904996476



**SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE**  
(An Autonomous Institution)  
Puducherry – 605 107

**SCHOOL OF AGRICULTURAL SCIENCES**

***6<sup>TH</sup> Board of Studies***

**Annexure - I**

**Minutes of 5<sup>th</sup> Board of Studies**





# SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)

(Approved by AICTE, New Delhi & Affiliated to Pondicherry University)

(Accredited by NBA-AICTE, New Delhi, Accredited by NAAC with 'A' Grade)

Madagadipet, Puducherry – 605 107



## SCHOOL OF AGRICULTURAL SCIENCES

### Minutes of the 5<sup>th</sup> Board of Studies Meeting

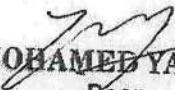
The minutes of the Fifth Board of Studies meeting for B.Sc. (Hons.) Agriculture and B.Sc. (Hons.) Horticulture on SCHOOL OF AGRICULTURAL SCIENCES held on 25<sup>th</sup> August 2023 at 10.30 A.M. in the Audio Visual Hall, Sri Manakula Vinayagar Engineering College is appended.

The following members were present in the BoS meeting

Si. No.	Name of the Members with Designation and Official Address	Members (as per UGC Norms)
1	Dr. G. Mohammed Yassin, Dean, School of Agricultural Sciences Sri Manakula Vinayagar Engineering College, Madagadipet, Puducherry - 605107	Chairman
2	Dr. S. Ramesh Kumar, Professor in Horticulture, Faculty of Agriculture, Annamalai University, Chidambaram - 608002	Subject Expert (University Nominee)
3	Dr. B. Karthikeyan, Associate Professor in Microbiology, Faculty of Agriculture, Annamalai University, Chidambaram - 608002	Subject Expert (Academic Council Nominee)
4	Dr. R. Raman, Professor and Director, Centre for Natural Farming and Sustainable Agriculture Faculty of Agriculture, Annamalai University, Chidambaram - 608002	Subject Expert (Academic Council Nominee)
5	Dr. R. Narasimman, Jr. Rice Breeder, Perunthalaiver Kamarajar Krishi Vigyan Kendra Vazhudavoor Rd, Kurumbapet Puducherry - 605009	Representative from Industry
6	Dr. A.A. Arivalagar, Dean Academics (Core), Sri Manakula Vinayagar Engineering College, Madagadipet, Puducherry - 605107	Special Invitee

Dr.G. MOHAMMED YASSIN, Ph.D.,  
Dean  
School of Agricultural Sciences  
Sri Manakula Vinayagar Engineering College  
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7.	<b>Dr. P. Rajaram,</b> Veterinary Officer SMVECH	Assistant Professor (Veterinary Science)
8	<b>Dr. M. Revathi,</b> Dept of Agri. Entomology SAGS - SMVEC	Assistant Professor (Agri. Entomology)
9	<b>Dr. K. Rajkumar</b> Dept of Soil Science & Analytical Chemistry SAGS - SMVEC	Assistant Professor (Soil Science & Analytical Chemistry)
10	<b>Mr. M. Selva Ganapathy,</b> Dept of Agri. Economics SAGS - SMVEC	Assistant Professor (Agri. Economics)
11	<b>Ms. A. Nismal Aswin,</b> Dept of Agri. Microbiology SAGS - SMVEC	Assistant Professor (Agri. Microbiology)
12	<b>Mr. H. Easwardhass,</b> Dept of Seed Science & Technology SMVEC	Assistant Professor (Seed Science & Technology)
13	<b>Dr. R. Thirumalai,</b> Dept of Genetics and Plant Breeding, SMVEC	Assistant Professor (Genetics and Plant Breeding)
14	<b>Mr. J. Sundaram,</b> Dept of Horticulture, SMVEC	Assistant Professor (Fruit Science)
15	<b>Mrs. J. Saroja,</b> Dept of Agri. Entomology, SMVEC	Assistant Professor (Agri. Entomology)
16	<b>Ms. P. Ilakiya,</b> Dept of Horticulture, SMVEC	Assistant Professor (Floriculture)
17	<b>Ms. B. Bavithra,</b> Dept of Horticulture, SMVEC	Assistant Professor (Vegetable Science)
18	<b>Dr. V. Devi Shanthini,</b> Dept of. Plant Pathology, SMVEC	Assistant Professor (Plant Pathology)
19	<b>Ms. K. Sowmiya,</b> Dept of. Genetics and Plant Breeding SMVEC	Assistant Professor (Genetics and Plant Breeding)
20	<b>Mr. V. Mohane,</b> Dept of. Crop Physiology, SMVEC	Assistant Professor (Crop Physiology)
21	<b>Mr. S. Senthil Kumar,</b> Dept of. Agronomy, SMVEC	Assistant Professor (Agronomy)

  
**Dr. G. MOHAMED YASSIN, Ph.D.,**  
 Dean  
 School of Agricultural Sciences  
 Sri Manakula Vinayagar Engineering College  
 (An Autonomous Institution)  
 Madagadi, Puducherry-605107.

22	<b>Ms. R. Tamil Mozhi,</b> Dept of. Agronomy, SMVEC	Assistant Professor (Agronomy)
23	<b>Dr. A.K. Rao Keluskar,</b> Dept of. Agri.Extn, SMVEC	Assistant Professor (Agricultural Extension.)

#### **Minutes of the meeting**

**Dr. G. Mohammed Yassin**, Chairman, welcomed the Board members and presented the Agenda of the meeting.

#### **BOS/2023/SAGS/5.1**

- To confirm the minutes of Fourth Board of Studies of B.Sc. (Hons.) Agriculture and B.Sc. (Hons.) Horticulture held on 30.03.2023**

As there were no remarks, the Board unanimously confirmed the minutes of the Fourth Board of Studies meeting for B.Sc. (Hons.) Agriculture and B.Sc. (Hons.) Horticulture held on 30.03.2023 (**Annexure I**)

#### **BOS/2023/SAGS/5.2**

- To consider and approve the Introduction of Breaking system for both B.Sc. (Hons.) Agriculture and B.Sc. (Hons.) Horticulture as per the ICAR norms under SMVEC Autonomous Regulations R2021.**

To get the eligibility for registering of Experiential Learning Programme (ELP), the students should have completed all the courses, offered up to sixth semester, successfully. No students shall be allowed to take up the ELP with backlog/repeat courses.

Students who register for the ELP in anticipation of obtaining the eligibility at the end of VII semester may do so at their own risk. Registration of ELP will automatically be cancelled if the student is found ineligible subsequently and the fee paid for the semester shall be adjusted for the ensuing registration. (**Annexure II**)

#### **BOS/2023/SAGS/5.3**

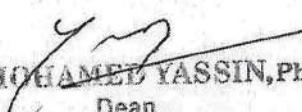
- To consider and approve the curriculum and syllabi for VII and VIII semesters of B.Sc. (Hons.) Agriculture degree programme in the School of Agricultural Sciences under SMVEC Autonomous Regulations R2021.**

The curriculum and syllabi of VII and VIII semesters for B.Sc. (Hons.) Agriculture degree programme in the School of Agricultural Sciences under SMVEC Autonomous Regulations R2021 is prepared and placed in the **Annexure III** for kind perusal and approval

#### **BOS/2023/SAGS/5.4**

- To consider and approve the curriculum and syllabi for VII semester of B.Sc. (Hons.) Horticulture degree programme in the School of Agricultural Sciences under SMVEC Autonomous Regulations R2021.**

The curriculum and syllabi of VII semester for B.Sc. (Hons.) Horticulture degree programme in the School of Agricultural Sciences under SMVEC Autonomous Regulations R2021 is prepared and placed in the **Annexure IV** for kind perusal and approval



**Dr. G. MOHAMMED YASSIN, Ph.D.,**  
Dean  
School of Agricultural Sciences  
Sri Manakula Vinayagar Engineering College  
(An Autonomous Institution)  
Madagadipet, Puducherry-605107.

**BOS/2023/SAGS/5.5**

- 5. To consider and approve the list of External Examiners for the End semester (Final Theory) Examinations (Question paper setting and exam paper evaluation) in the respect of B.Sc. (Hons.) Agriculture and B.Sc. (Hons.) Horticulture for 2021 Regulations.**

The list of external examiners for the End Semester (Final Theory) Examination for Question paper setting and exam paper evaluation with respect to B.Sc. (Hons.) Agriculture and B.Sc. (Hons.) Horticulture for 2021 Regulations is placed for kind perusal and approval. (**Annexure V**)

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The meeting was concluded at 01.00 P.M., with vote of thanks by **Dr. A.K. RAO KELUSKAR**, Assistant professor (Agri.Extn.), School of Agricultural Sciences, Sri Manakula Vinayagar Engineering College.

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**Dr. G. MOHAMED YASSIN, Ph.D.,**  
Dean  
School of Agricultural Sciences  
Sri Manakula Vinayagar Engineering College  
(An Autonomous Institution)  
Madagadet, Puducherry-605107.



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**SCHOOL OF AGRICULTURAL SCIENCES**

***6<sup>TH</sup> Board of Studies***

**Annexure - II**

**Curriculum and Syllabus of VIII Semester of  
B.Sc. (Hons.) Horticulture**



**B.Sc. (Hons.) HORTICULTURE DEGREE PROGRAMME**  
**DEPARTMENT WISE DISTRIBUTION OF COURSES**  
**ABSTRACT**

Sl.No.	Department / Discipline	No. of courses	Credit hours	Total Credits
<b>Agricultural Economics</b>				
1.	Agricultural Economics	2	4+1	5
<b>Agricultural Extension</b>				
2.	Agricultural Extension	3	3+3	6
<b>Basic Sciences and Languages</b>				
3.	Computer Science	1	0+1	1
4.	Elementary Mathematics	1	0+1	1
5.	Statistics	1	1+1	2
6.	English	1	0+1	1
<b>Agricultural Entomology</b>				
7.	Agricultural Entomology	4	7+4	11
<b>Agronomy</b>				
8.	Agronomy	5	6+5	11
9.	Agricultural Engineering	1	1+1	2
<b>Horticulture</b>				
10.	Basic Horticulture	4	6+4	10
11.	Floriculture and Landscape Gardening	4	6+4	10
12.	Fruit Science	4	6+4	10
13.	Post-Harvest Technology	3	4+4	8
14.	Spices, Plantation, Medicinal & Aromatic crops	3	6+3	9
15.	Vegetable Science	4	5+5	10
16.	Forestry	1	1+1	2
<b>Plant Breeding and Genetics</b>				
17.	Genetics and Plant Breeding	3	5+3	8
18.	Seed Science and Technology	1	2+1	3
19.	Crop Physiology	2	2+2	4
<b>Plant Pathology and Agricultural Microbiology</b>				
20.	Plant Pathology	3	6+3	9
21.	Agricultural Microbiology	1	1+1	2
22.	Nematology	1	1+1	2
<b>Soil Science &amp; Agri. Chemistry</b>				
23.	Soil Science & Agri. Chemistry	3	4+3	7
24.	Biochemistry	1	1+1	2
25.	Environmental Science	1	2+1	3
	<b>Total</b>	<b>58</b>	<b>80+59</b>	<b>139</b>
<b>Student READY</b>				
<b>Rural Horticultural Work Experience (RHWE)</b>				
26.	RHWE – Placement in Villages	1	0+10	10
27.	RHWE – Placement in Industries	1	0+10	10
28.	Experiential Learning Programme	2	0+20	20
	<b>Total</b>	<b>4</b>	<b>0+40</b>	<b>40</b>

  
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<b>Non Gradual courses</b>				
29.	NSS /NCC	1	0+1	1
30.	PED	1	0+1	1
31.	Educational Tour	2	0+2	2
	<b>Total Non-Gradual courses</b>	<b>4</b>	<b>0+4</b>	<b>4</b>
	<b>Grand Total</b>	<b>66</b>	<b>80+103</b>	<b>183</b>

<b>Remedial Course</b>				
	Introductory Biology	1	1+1	2



**B.Sc. (Hons.) HORTICULTURE**

**DEPARTMENT WISE DISTRIBUTION OF COURSES  
DEPARTMENT OF AGRICULTURAL ECONOMICS AND EXTENSION**

<b>Sl.No.</b>	<b>Course No.</b>	<b>Course Title</b>	<b>Cr.Hr.</b>	<b>Semester</b>
<b>Agricultural Economics</b>				
1.	U21HAEBCB101	Economics and Marketing	2+1	I
2.	U21HAECT601	Horti-Business Management	2+0	VI
<b>TOTAL</b>			<b>4 + 1=5</b>	
<b>Agricultural Extension</b>				
1.	U21HAEXB201	Fundamentals of Extension Education	1+1	II
2.	U21CAEXB502	Communication Skills and Personality Development	1+1	V
3.	U21HAEXB602	Entrepreneurship Development and Business Management	1+1	VI
<b>TOTAL</b>			<b>3 + 3=6</b>	
<b>Computer Science, Statistics and English</b>				
1.	U21CENGP105	Comprehension & Communication Skills in English	0+1	I
2.	U21CMATP109	Elementary Mathematics	0+1	I
3.	U21HCOMP304	Computer Applications in Horticulture	0+1	III
4.	U21CSTAB410	Statistical Methods	1+1	IV
<b>TOTAL</b>			<b>1 + 4=5</b>	

**DEPARTMENT OF AGRICULTURAL ENTOMOLOGY**

<b>Sl.No.</b>	<b>Course No.</b>	<b>Course Title</b>	<b>Cr.Hr.</b>	<b>Semester</b>
1.	U21CAENB202	Fundamentals of Entomology	2+1	II
2.	U21HAENB302	Apiculture, Sericulture and Lac culture	1+1	III
3.	U21HAENB401	Insect Pests of Fruit, Plantation, Medicinal & Aromatic Crops	2+1	IV
4.	U21HAENB501	Insect Pests of Vegetable, Ornamental and Spice Crops	2+1	V
<b>TOTAL</b>			<b>7 + 4=11</b>	

**DEPARTMENT OF AGRONOMY**

<b>Sl.No.</b>	<b>Course No.</b>	<b>Course Title</b>	<b>Cr.Hr.</b>	<b>Semester</b>
<b>Agronomy</b>				
1.	U21HAGRB203	Weed Management in Horticultural Crops	1+1	II
2.	U21HAGRB303	Agro-meteorology and Climate Change	1+1	III
3.	U21HAGRB402	Water Management in Horticultural Crops	1+1	IV
4.	U21HAGRB603	Introduction to Major Field Crops	1+1	VI
5.	U21HAGRB604	Organic Farming	2+1	VI
<b>TOTAL</b>			<b>6 + 5=11</b>	
<b>Agricultural Engineering</b>				
1.	U21HAEGB301	Farm Power and Machinery in Horticulture	1+1	III
<b>TOTAL</b>			<b>1 + 1=2</b>	

  
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## DEPARTMENT OF HORTICULTURE

Sl.No.	Course No.	Course Title	Cr.Hr.	Semester
<b>Basic Horticulture</b>				
1.	U21HHORB107	Introduction to Horticulture	2+1	I
2.	U21HHORB208	Plant Propagation and Nursery Management	1+1	II
3.	U21HHORB310	Dry land Horticulture <sup>#</sup>	1+1	III
4.	U21HHORB608	Precision Farming and Protected Cultivation	2+1	VI
		<b>TOTAL</b>	<b>6 + 4=10</b>	
<b>Floriculture and Landscape Architecture</b>				
1.	U21HFLAB305	Commercial Floriculture	2+1	III
2.	U21HFLAB404	Ornamental Horticulture	1+1	IV
3.	U21HFLAB503	Principles of Landscape Architecture	1+1	V
4.	U21HFLAB606	Breeding and Seed Production of Flower and Ornamental Plants	2+1	VI
		<b>TOTAL</b>	<b>6 + 4=10</b>	
<b>Fruit Science</b>				
1.	U21HFSCB207	Tropical and Subtropical Fruits	2+1	II
2.	U21HFSCB209	Orchard and Estate Management	1+1	II
3.	U21HFSCB306	Temperate Fruit Crops	1+1	III
4.	U21HFSCB405	Breeding of Fruit and Plantation Crops	2+1	IV
		<b>TOTAL</b>	<b>6 + 4=10</b>	
<b>Post-Harvest Technology</b>				
1.	U21HPHTB309	Fundamentals of Food Technology	1+1	III
2.	U21HPHTB505	Postharvest Management of Horticultural Crops	2+1	V
3.	U21HPHTB607	Processing of Horticultural Crops	1+2	VI
			<b>4 +4=8</b>	
<b>Spices, Plantation, Medicinal &amp; Aromatic crops</b>				
1.	U21HSPCB407	Spices and Condiments	2+1	IV
2.	U21HSPCB409	Plantation Crops	2+1	IV
3.	U21HSPCB506	Medicinal and Aromatic crops	2+1	V
		<b>TOTAL</b>	<b>6 + 3=9</b>	
<b>Vegetable Science</b>				
1.	U21HVSCB210	Tropical and Subtropical Vegetables	2+1	II
2.	U21HVSCB311	Temperate Vegetable Crops	1+1	III
3.	U21HVSCP507	Crop Production in Vegetable Crops	0+2	V
4.	U21HVSCB508	Breeding of Vegetable, Tuber and Spice Crops	2+1	V
		<b>TOTAL</b>	<b>5 + 5=10</b>	
<b>Forestry</b>				
1.	U21HFORB104	Introductory Agroforestry	1+1	I
		<b>TOTAL</b>	<b>1 + 1=2</b>	

# Team teaching course

  
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## DEPARTMENT OF PLANT BREEDING AND GENETICS

Sl.No.	Course No.	Course Title	Cr.Hr.	Semester
<b>Genetics and Plant Breeding</b>				
1.	U21CGPBB106	Fundamentals of Genetics	2+1	I
2.	U21HGPBB206	Elementary Plant Biotechnology	1+1	II
3.	U21CGPBB307	Fundamentals of Plant Breeding	2+1	III
		<b>TOTAL</b>	<b>5 + 3=8</b>	

<b>Seed Science and Technology</b>				
1.	U21HSSTB609	Seed production of Vegetable, Tuber and Spice Crops	2+1	VI
		<b>TOTAL</b>		
<b>Crop Physiology</b>				
1.	U21HCRPB103	Introductory Crop Physiology	1+1	I
2.	U21HCRPB204	Growth and Development of Horticultural Crops	1+1	II
		<b>TOTAL</b>	<b>2 + 2=4</b>	

## DEPARTMENT OF PLANT PATHOLOGY & AGRICULTURAL MICROBIOLOGY

Sl.No.	Course No.	Course Title	Cr.Hr.	Semester
<b>Plant Pathology</b>				
1.	U21HPATB308	Introduction to Plant Pathology	2+1	III
2.	U21HPATB406	Diseases of Fruit, Plantation, Medicinal and Aromatic Crops and Their Management	2+1	IV
3.	U21HPATB504	Diseases of Vegetable, Ornamental and Spice Crops and Their Management	2+1	V
		<b>TOTAL</b>	<b>6 + 3=9</b>	
<b>Agricultural Microbiology</b>				
1.	U21HAGMB102	Introductory Microbiology	1+1	I
		<b>TOTAL</b>	<b>1 + 1=2</b>	
<b>Nematology</b>				
1.	U21HANMB403	Nematode Pests of Horticultural Crops and Their Management	1+1	IV
		<b>TOTAL</b>	<b>1 + 1=2</b>	

## DEPARTMENT OF SOIL SCIENCE AND AGRICULTURAL CHEMISTRY

Sl.No.	Course No.	Course Title	Cr.Hr.	Semester
<b>Soil Science and Agricultural Chemistry</b>				
1.	U21CSACB108	Fundamentals of Soil Science	2+1	I
2.	U21HSACP408	Soil, Water and Plant Analysis	0+1	IV
3.	U21CSACB509	Manures, Fertilizers and Soil Fertility Management	2+1	V
		<b>TOTAL</b>	<b>4 + 3=7</b>	

  
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<b>Biochemistry</b>				
1.	U21CBICB205	Fundamentals of Biochemistry	1+1	II
<b>TOTAL</b>			<b>1 + 1=2</b>	
<b>Environmental Science</b>				
1.	U21HENSB605	Environmental Studies and Disaster Management <sup>#</sup>	2+1	VI
<b>TOTAL</b>			<b>2 + 1=3</b>	

### STUDENT READY

Sl.No.	Course No.	Course Title	Cr.Hr.	Semester
1.	U21HAEXP701	Rural Horticultural Work Experience Programme - Placement in Villages	0+10	VII
2.	U21HHORP702	Rural Horticultural Work Experience Programme - Placement in Industries	0+10	VII
<b>TOTAL</b>			<b>0 + 20=20</b>	
<b>Experiential Learning Programme</b>				
1.	U21HELPP8XX	Experiential Learning Programme-1	0+10	VIII
2.	U21HELPP8XX	Experiential Learning Programme-2	0+10	VIII
<b>TOTAL</b>			<b>0 + 20=20</b>	

### LIST OF EXPERIENTIAL LEARNING PROGRAMME COURSES

Sl.No.	Course No.	Course Title	Cr.Hr.	Semester
1.	U21HELPP801	Commercial Beekeeping	0+10	VIII
2.	U21HELPP802	Commercial Sericulture	0+10	VIII
3.	U21HELPP803	Urban Entomology and Pest Management	0+10	VIII
4.	U21HELPP804	Production Technology for Bio-control Agents <sup>#</sup>	0+10	VIII
5.	U21HELPP805	Organic Production Technology	0+10	VIII
6.	U21HELPP806	Commercial Horticulture	0+10	VIII
7.	U21HELPP807	Floriculture and Landscape Architecture	0+10	VIII
8.	U21HELPP808	Plant Tissue Culture	0+10	VIII
9.	U21HELPP809	Mushroom Cultivation Technology	0+10	VIII
10.	U21HELPP810	Bio-inoculants Production Technology	0+10	VIII
11.	U21HELPP811	Agriculture Waste Management	0+10	VIII
12.	U21HELPP812	Protected Cultivation of High Value Horticulture Crops	0+10	VIII
13.	U21HELPP813	Processing of Fruits and Vegetables for Value Addition	0+10	VIII

  
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### NON-GRADIAL COURSES

Sl.No.	Course No.	Course Title	Cr.Hr.	Semester
1.	U21CNCCP110 / U21CNSSP110	National Cadet Corps / National Service Scheme	0+1	I
2.	U21CPEDP111	Physical Education & Yoga Practices	0+1	I
3.	U21HMVEP411	Educational tour - I (State)	0+1	IV
4.	U21HMVEP703	Educational tour - II (All India)	0+1	VII
		<b>TOTAL</b>	<b>0 + 4=4</b>	

### REMEDIAL COURSE

Sl.No.	Course No.	Course Title	Cr.Hr.	Semester
1.	U21CREMP112	Introductory Biology	1+1	I
		<b>TOTAL</b>	<b>1 + 1=2</b>	

# Team Teaching



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## B.Sc. (Hons.) HORTICULTURE

### SEMESTER VIII

Course No.	Course Title	Credit Hours
U21HELPP8XX	Experiential Learning Programme -1	0+10
U21HELPP8XX	Experiential Learning Programme -2	0+10
	<b>Total</b>	<b>0+20=20</b>

### EXPERIENTIAL LEARNING PROGRAMME (ELP)

Sl.No.	CourseNo.	Course Title	Credit Hrs.
1.	U21HELPP801	Commercial Beekeeping	0+10
2.	U21HELPP802	Commercial Sericulture	0+10
3.	U21HELPP803	Urban Entomology and Pest Management	0+10
4.	U21HELPP804	Production Technology for Bio-control Agents	0+10
5.	U21HELPP805	Organic Production Technology	0+10
6.	U21HELPP806	Commercial Horticulture	0+10
7.	U21HELPP807	Floriculture and Landscape Architecture	0+10
8.	U21HELPP808	Plant Tissue Culture	0+10
9.	U21HELPP809	Mushroom Cultivation Technology	0+10
10.	U21HELPP810	Bio-inoculants Production Technology	0+10
11.	U21HELPP811	Agriculture Waste Management	0+10
12.	U21HELPP812	Protected Cultivation of High Value Horticultural Crops	0+10
13.	U21HELPP813	Processing of Fruits and Vegetables for Value Addition	0+10

  
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**Evaluation:**

As the programme is an enterprise oriented programme, the students and faculty are to attend the activities of the enterprise even during institutional holidays. Each ELP unit shall comprise the following organizational set-up :

<b>Chief Executive Officer</b>	– Dean/HoD
<b>Managing Director</b>	– Senior Teacher in the ELP unit
<b>Board of Directors</b>	– Other teachers in the ELP unit
<b>Manager</b>	– Student representative from the group
<b>Deputy Manager</b>	– Another student from the group

Periodical evaluation of the above ELP course will be done by the course teacher during different stages of work. Final evaluation of the above course will be done by the Course Teacher and External Examiner (another staff member from the respective department) appointed as examiner by the Dean /HoD. The final examination will be conducted by the University before the commencement of regular final semester examinations.

**The following is the evaluation pattern and committee for the ELP modules**

S. No.	Criteria	Max. Marks
1.	Project Planning and Writing	10
2.	Presentation (pertaining to the product preparation, exhibits, cleanliness)	10
3.	Regularity	10
4.	Monthly Assessment	10
5.	Output delivery	10
6.	Technical Skill Development	10
7.	Entrepreneurship Skills	10
8.	Business networking skills	10
9.	Report Writing Skills	10
10.	Final Presentation [including viva]	10
<i>[Signature]</i>		<b>Total Marks</b>
		<b>100</b>

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**U21HELPP801**

**COMMERCIAL BEE KEEPING**

**(0+10)**

**Outcome:**

- To have hands on training in apiculture
- To understand the economics of bee keeping and marketing of honey and other by-products.

**Activities**

Hands on experience in establishment of Apiary- Identification of different caste of honey bees – Identification of bee keeping equipment and their uses – Assembling and dissembling a beehive- Lighting a smoker - Transport of hives, installing hives in Apiary – Identification and selection of strong colony – dividing and uniting the bee colonies - preparation and installation of comb foundation sheets - Maintenance of bee floral garden – Identification of nectar and pollen yielding plants – Preparation of month wise bee floral calendar - Management of bees - artificial feeding of honey bees – management during dearth and honey flow period. Swarming and absconding – Detection and management. Pest and disease management in bees- Procedure for migration of colonies – Packing of bee hives while migration - Harvesting of honey – Extraction of honey from honey comb – Processing of honey – Packing, storing and marketing - Extraction and processing bee wax and marketing – Visit to get various prices of inputs. Cost benefit ratio of rearing Indian bees. Preparing business plan for bee keeping.

**U21HELPP802**

**COMMERCIAL SERICULTURE**

**(0+10)**

**Outcome:**

- Skill in Commercial Sericulture

**Activities:**

Visit a sericulture unit to get an idea about Rearing house, appliances and disinfection techniques-Propagation of mulberry plants-Nursery and main field preparation-Nutrient and weed management-Pruning and harvesting of leaves-Pests and Diseases of mulberry and their management -Young and late age silkworm rearing-Pests and disease of mulberry silkworm and their management-Grainage technology-Post cocoon technology-Economics of sericulture.

  
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**U21HELPP803 URBAN ENTOMOLOGY AND PEST MANAGEMENT (0+10)**

**Outcome:**

- Skill in Urban Entomology and Commercial Pest Control Management.  
Students can grasp pest concerns in urban areas and their potential damage;

**Activities**

Mosquitoes: species identification- habitat requirement-Morphological study of Houseflies/bedbugs/fleas/lice-Termite management in houses and wooden structures-Termite proofing in constructions/buildings-Medical and veterinary pests; identification and damage studies- Fumigation/baiting techniques for rodent management-Storage pests: Identification and estimation-Pest Management Technology in Storage Structures-Preparation and application of insecticide formulations in urban pest management-Traps and lures in domestic pest management.

**U21HELPP804 PRODUCTION TECHNOLOGY FOR (0+10)  
BIO-CONTROL AGENTS**

(Team teaching by Entomologists and Pathologists)

**Outcome:**

- Skill in production of bio-control Agents

**Activities**

Bio-control agents and their significance in plant disease management- Safety procedures for handling of equipments- Good laboratory practices.- Preparation of PDA and Rose Bengal Agar Medium, *Trichoderma* Selective Medium, Kings' B Medium and Nutrient Agar Medium- Isolation of *Trichoderm*, *Pseudomonas fluorescens* and *Bacillus subtilis*- Pure culture- Identification of *Trichoderma*, *Pseudomonas fluorescens* and *Bacillus subtilis*-*In vitro* efficacy- Mode of action against pathogens. Different kinds of formulations - Mass multiplication of *Trichoderma*, *Pseudomonas* and *Bacillus*, Compatibility, packaging methods and shelf life studies of bio control agents- Quality analysis, Methods of delivery and bioefficacy of biocontrol - Requirements to establish a commercial bio control lab (Small scale and large scale)- Exposure visit to commercial bio control units- Cost Analysis and project preparation- Financial management – Agricultural Finance – Source of finance- Acquisition – Ratio analysis.

  
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**U21HELPP805 ORGANIC PRODUCTION TECHNOLOGY****(0+10)****Outcome**

- The student who completes this course will be able to establish an organic farm individually and able to know the procedures for certification and commercialization.

**Activities**

Organic farm - Site selection - Layout and preparation of farm maps - Establishment of organic farm- Estimation of available resources - On farm and off farm resources - Maintenance of farm records and registers - Estimation of soil properties - pH and EC - Estimation of soil nutrients - Organic carbon, nitrogen, phosphorus and potassium – Nutrient budgeting- Analysis of existing cropping / farming system- Preparation of suitable model - Crop/ farm Budgeting - Preparation of organic inputs – Panchagavya, Jeevamirtham and leaf extracts - EM solution - Fish amino acid, Vermiwash and organic pest repellent - Organic farming certification- Analyze and establishment of organic produce outlet- Waste management - Compost - Methods of composting- Vermi compost - Cost of cultivation- Preparation of Detail Project Report (DPR)

**U21HELPP806****COMMERCIAL HORTICULTURE****(0+10)****Outcome:**

- Skill in Production of plantlets, production of potted plants, management and maintenance, sale and marketing.
- Skill in Nursery raising/procurement and transplanting, management and maintenance of the crop, postharvest handling, quality control and marketing.

**Activities - I:**

Site selection and basic criteria for setting up a new fruit nursery - Raising of quality rootstocks - Practicing of different types of grafting - Management practices - Certification, packaging and marketing - Quality control for planting materials - Ornamental nursery establishment - Multiplication of plants - Management and Maintenance - Sales and Marketing - Income generation - Visit to commercial / local nurseries – Project Preparation.

**Activities - II:**

Study of different types of protected structures - Site selection and basic criteria - Protected cultivation of vegetables and flowers - Nursery raising/procurement - Production of leafy vegetables - Sales and Marketing - Income generation - Quality control - Post-harvest handling of flowers, fruits and vegetables - Visit to commercial / local nurseries – Project Preparation.

  
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**U21HELPP807 FLORICULTURE AND LANDSCAPE ARCHITECTURE (0+10)**

**Outcome:**

- The students will obtain knowledge in commercial flower production
- The students will acquire knowledge in the use of software in landscaping
- The students will gain skill and proficiency in landscaping

**Activities:**

Planning and designing - Site analysis - soil and water analysis- Preparation of land - layout - plant material for landscaping – garden features - Formal and informal gardens - Production and Management of commercial flower crops -Harvesting and Post - harvest - Marketing - Cost Analysis - Institutional Management- landscape plans of home gardens - farm complexes- public parks – institutions- high ways- dams and avenues. Lawn making - use of software in landscape – bouquets -button hole- wreath, veni – festoons- stage decoration - Dry flower Technology - Visit to Flower growing areas and Export centers

**U21HELPP808**

**PLANT TISSUE CULTURE**

**(0+10)**

**Outcome:**

- Skill in establishment of Plant Tissue Culture Laboratory, Medium and stock solution preparation.
- Skill in Meristem and Micropropagation of Banana and Caussurina.

**Activities**

Basics and establishment of Plant Tissue Culture Laboratory - Medium and stock solution preparation-I - Medium and stock solution preparation-II- Meristem and Micropropagation in Banana and Caussurina - Sub culturing -I - Sub culturing -II- Callus induction- Media preparation and inoculation for rooting of microshoots - hardening - Synthetic seed preparation and Establishment of cell suspensions- Secondary metabolite production and analysis- Field transfer of TC plants- Visits and Entrepreneurship development - Project proposal preparation.

  
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**U21HELPP809 MUSHROOM CULTIVATION TECHNOLOGY (0+10)****Outcome**

- Skill in Mushroom Cultivation

**Activities**

Study of general characters of mushrooms- Aseptic production of spawn bed- Mother spawn – Preparation of sorghum grain medium – Inoculation of sorghum grain medium - First generation bed spawn - Preparation of sorghum grain medium. Commercial mushroom-Milky mushroom- Button mushroom-Oyster mushroom-Paddy straw mushroom cultivation - Essentials required, cropping room requirement - Preparation of substrates for bed preparation - Bed preparation - Maintenance of beds, harvest and storing - Pest and disease management - Competitor and abiotic disorders management - Visit to mushroom farm (spawn lab and mushroom farm). Biodegradation of agro-wastes using mushroom spawn - Composting and their use Mushroom in Integrated Farming System (IFS) - Interaction with successful spawn producers and mushroom growers. Post -harvest processing - Packing methods - Canning of button mushroom-Value addition- Cost estimation of mushroom production.

**U21HELPP810 BIO-INOCULANTS PRODUCTION TECHNOLOGY (0+10)****Outcome:**

- Skill in Commercial Bio-inoculants

**Activities:**

Biofertilizers production -Isolation, purification and characterization of Nitrogenous biofertilizers –*Azospirillum* and *Rhizobium* -Phosphate solubilizing biofertilizer- *Bacillus* - Selection of efficient AM fungi by plant infection tests and Isolation of AM fungi- Plant growth promoting bacteria-Pink Pigmented Facultative Methylotrophs (PPFM) and screening of PPFM-Preparation of medium and carrier material for large scale production-Mass production of *Rhizobium* and *Azospirillum* -Phosphate solubilizer- *Bacillus* -PPFM and AM fungi, Azolla -Visit to biofertilizer inoculated fields / Biofertilizer production unit-Economics of biofertilizer production-Calculation of Commercial production cost – fixed cost- cost of building, equipments, glassware and variable cost - raw materials, maintenance, labour cost etc., -Formulation and Presentation of a project for production of fixed quantity of various Biofertilizers.



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**U21HELPP811**

**AGRICULTURE WASTE MANAGEMENT**

**(0+10)**

**Outcome:**

- Skill in Management of Agriculture Waste

**Activities:**

Survey of different agricultural production systems – observe types of wastes generated – Quantification and Classification of wastes – Visit to a Landfill site – Study about volume, size and Chemical reduction techniques - Leachate treatment facilities – Assessment of pollution problems - Garbage to Green –Converting landfills to parks-Composting-Aerobic - windrow compost preparation - Aerated static pile composting-Preparation of compost by trench method- Anaerobic composting - Microbial composts preparation-EM compost - Preparation of Coir pith compost - production technologies-Preparation of Vermi compost - Indoor vermicomposting (small scale) - outdoor vermicomposting (commercial scale) – Insitu vermicomposting-Biogas plants – Visit to nearby biogas production unit and study the operation and production of biogas –advantages – disadvantages - Prepare layout plan-Use of agricultural wastes in preparation of bio fertilizers. Value addition of products - Enriched manures - Collection of manure samples- Solid and liquid manures-Liquid organic manures- Vermiwash, Biogas slurry preparation - Other uses of agricultural wastes and horticultural wastes and marketing yard waste - Evaluation of compost maturity - maturity indices of compost Determinations - C:N ratio, temperature, colour, odour moisture content, pH, EC and Nutrient contents (N, P, K) -Rapid test for assessing microbial load, detection of pathogens. Preparation of project proposal and work plan for establishing commercial organic manures, production unit- Report preparation.



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**U21HELPP812**

**PROTECTED CULTIVATION OF HIGH VALUE  
HORTICULTURAL CROPS**

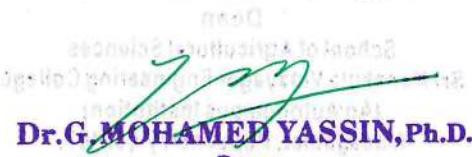
**(0+10)**

**Outcome:**

- Skill in Protected Cultivation of high value horticulture crops

**Activities:**

Study of different media organic – soilless – synthetic media. Preparation of different media mixtures for cultivation of Roses Caranation, Chrysanthemum Gerbera, Anthurium and Orchids. Study of solarization – fumigation of polyhouses – methods of fumigation. Preparation of beds for growing cut flower crops and vegetables in polyhouses. Fixing of supports – trellies, arrangement of net supports – study of different types of nets Materials used for preparation of nets. Preparation of seed beds – poly trays – for raising nursery seedlings of capsicum, cucumber and tomato. Study of jiffy bags – propagation techniques of Roses, Gerbera, Carnation, Orchid Anthuriums and Chrysanthemum. Study of corms and cormels. Dormancy breaking techniques of Gladiolus. Study of climate management techniques – practices to manipulate the climate in polyhouses. Addition of manures of fertilizers – planting techniques of cut flower crops and vegetables. Practice of special horticultural techniques like pinching disbudding – deshooting – deleafing in cut flowers and vegetables. Training and pruning techniques in cut flower crops and vegetables. Study of fertigation techniques – Identification of different soluble fertilizers and their composition. Preparation of stock solutions. Practice fertigation in polyhouse grown crops. Automation in poly house management – Urban Farming (Hydroponics, Areophonics, Roof Top Garden,) - Visit to commercial polyhouses around colleges. Study of pollination techniques – Different methods of pollination – practice pollination in capsicum and tomato. Study of harvesting techniques for different purposes in cut flowers and vegetables. Study of grading – pre-cooling – holding solutions for enhancement of vase life. Study of different types of packaging materials, storage methods – visit to cold storages and commercial markets.

  
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**U21HELPP813**

**PROCESSING OF FRUITS AND VEGETABLES FOR  
VALUE ADDITION**

**(0+10)**

**Outcome:**

- Skill in Protected Cultivation of high value horticulture crops

**Activities:**

Production planning – Quality assurance – raw materials, processing, packing and storage, testing ingredients and products etc. Selection of site for establishment of commercial processing unit. Auxillary raw materials used in fruits & vegetables processing. Improving the nutritional quality of processed fruit and vegetables: the behavior of nutrients minerals, antioxidants – vitamins, lycopene and other carotene, during processing. Dehydration of horticultural produce: methods of drying – sun drying, osmotic dehydration, freeze drying etc., types of dryers; tunnel dryer, belt dryer, vacuum dryer, drum dryer, spray in heated air etc. for preparation of flakes, chips, powders concentration etc. Processing for drying/dehydrated horticultural produce. Preparation of alcoholic beverages from fruits. Study on maintenance of quality control, evaluation and assurance of processed products in various processing units. Processing for juice, squash, nectar, cordial syrup/sherbath and other beverages from different horticultural produce. Processing for canning of horticultural produce. Preparation of jam, jellies, marmalade, preserve, candy, glazed and crystallized fruits and vegetables. Preparation of toffee, bar etc. Preparation of lactic acid fermented beverages. Processing technique for chutneys and sauces. Minimal processing of fresh fruit & vegetables – quality changes in minimally processed fruits and vegetables – raw material: various steps involved in processing. Preparation of bottled fruits, fruit leathers and fruit cheese puree, papain, pectin etc. Food processing factory wastes and their utilization Quality Standards Quality certification and labeling of processed foods – FSSAI, AGMARK, Codex Alimentarius.

  
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**SCHOOL OF AGRICULTURAL SCIENCES**

*6<sup>TH</sup> Board of Studies*

**Annexure - III**

Remedial Course for B.Sc. (Hons.) Agriculture  
and B.Sc. (Hons.) Horticulture



**U21CREMP112**

**INTRODUCTORY BIOLOGY**

**(1+1)**

**Theory**

Introduction to the living world, diversity and characteristics of life, origin of life, Evolution and Eugenics. Binomial nomenclature and classification Cell and cell division. Morphology of flowering plants. Seed and seed germination. Plant systematic- viz; Brassicaceae, Fabaceae and Poaceae. Role of animals in agriculture.

**Practical**

Morphology of flowering plants – root, stem and leaf and their modifications. Inflorescence, flower and fruits. Cell, tissues & cell division. Internal structure of root, stem and leaf. Study of specimens and slides. Description of plants - Brassicaceae, Fabaceae and Poaceae.



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**Annexure - IV**

External Examiners for  
**B.Sc. (Hons.) Agriculture and**  
**B.Sc. (Hons.) Horticulture**





**DETAILS OF PANAL OF EXAMINERS FOR END SEMESTER (FINAL) THEORY EXAMINATION**

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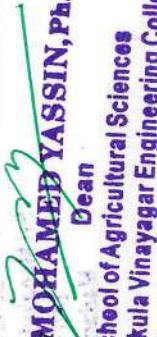
  
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[Autonomous Status No. 000000000000000000]

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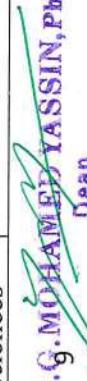
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