

From

Dr. Janeeshma E.  
The Head of the Department  
Department of Botany  
MES Keveeyam College, Valanchery

To

The Principal  
MES Keveeyam College, Valanchery

Sir,

Sub: Request for the Approval of Certificate Course

The Department of Botany is planning to conduct a Certificate Course on "**Horticulture techniques**" (KVM/CC/BOT/22-23/03) of 30 hours duration for the third year UG students. So kindly grant permission for the same.

Thanking you

Yours faithfully,



Dr. Janeeshma E.



Place: Valanchery

Date: 07/11/2022



SHAJID P P  
ASSISTANT PROFESSOR  
IN CHARGE OF PRINCIPAL  
MES KEVEEYAM COLLEGE  
VALANCHERY, PIN 676 552

From

Dr. Janeeshma E.  
Head of the Department  
Department of Botany  
MES Keveeyam College, Valanchery

To

The Principal  
MES Keveeyam College, Valanchery

Sir,

Sub: Request for the Approval of Board of Studies for the short Term Course

The following academicians may be included in the Board of Studies for the Short Term Course on "**Horticulture techniques**" (KVM/CC/BOT/22-23/03) to be conducted by the Department of Botany with these members.

1. Dr. Jyothi.P.V, Associate Professor, Department of Botany, MES Ponnani College *Jyothi*
2. Dr. Krishna Prabha K. S. , Assistant Professor, Department of Zoology, MES Keveeyam College, Valanchery 3.
3. Dr. Janeeshma E, Assistant Professor, Department of Botany, MES Keveeyam College, Valanchery. *Edy*
4. Ragitha A V, Assistant Professor, Department of Botany, MES Keveeyam College, Valanchery. *Ragitha*

Thanking you



Yours faithfully

Dr. Janeeshma E.

Place: Valanchery  
Date: 7/11/2022

SHANMUGA  
ASSISTANT PROFESSOR  
IN CHARGE OF PRINCIPAL  
M.E.S KEVEEYAM COLLEGE  
VALANCHERY, PIN 670 002



# MES KEVEEYAM COLLEGE VALANCHERY

P.O.Valanchery, Malappuram Dist, Kerala, Pin:676 552.  
Phone : 0494-2642670, 0494 2644380  
www.meskeveeyamcollege.ac.in,  
principal@meskeveeyamcollege.ac.in

Reaccredited with 'A+' Grade by NAAC (Score 3.44)

Aided by Govt. of Kerala and Affiliated to the University of Calicut  
ISO 9001:2015 certified institution

Order No. Acs/2018-19/01

Date: 14/11/2022

## *Proceedings of the Principal, MES Keveeyam College Valanchery*

(Present: Prof. Shajid PP)

- Ref:** (1) Request from the Head of the Department of Botany dt: 07/11/2022  
(2) Minutes of Board of Studies meeting for approval of the syllabus dt: 07/11/2022

### ORDER

As per reference cited (1), request was received from the HOD, Department of Botany to start a short term course on "**Horticulture techniques**" (KVM/CC/BOT/22-23/03). In the same letter, the head of the department has recommended a panel of academicians to be included in the Board of Studies.

The department of Botany is hereby given sanction to conduct a short term course on Approaches for environmental awareness and education to the UG students of the college.

The board of studies for the above course is constituted with the following members

1. Dr. Jyothi.P.V, Associate Professor, Department of Botany, MES Ponnani College *Jyothi*
2. Dr. Krishna Prabha K. S. , Assistant Professor, Department of Zoology, MES Keveeyam College, Valanchery *K.S.*
3. Dr. Janeeshma E , Assistant Professor, Department of Botany, MES Keveeyam College, Valanchery. *Janeeshma*
4. Ragitha A V, , Assistant Professor, Department of Botany, MES Keveeyam College, Valanchery. *Ragitha*

Order is issued accordingly.



Copy to

1. HOD, Department of Botany
2. File



Prof. Shajid PP

Principal

*Shajid PP*

**SHAJID P P**  
ASSISTANT PROFESSOR  
IN CHARGE OF PRINCIPAL  
M.E.S KEVEEYAM COLLEGE  
VALANCHERY, PIN 676 552



## MINUTES OF BOARD OF STUDIES MEETING

Venue: Department of Botany

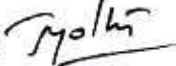


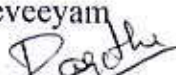
Date: 14/11/2022

Agenda: Approval of syllabus of the short term course

Decisions:-

1. Discussions were done on the draft syllabus
2. Suggestions were made to include practical hrs.
3. A one day Field trip has to be included.
4. Approval can be given to syllabus

Members Present:

1. Dr. Jyothi.P.V, Associate Professor, Department of Botany, MES Ponnani College 
2. Dr. Krishna Prabha K. S. , Assistant Professor, Department of Zoology, MES Keveeyam College, Valanchery 
3. Dr. Janeeshma E , Assistant Professor, Department of Botany, MES Keveeyam College, Valanchery. 
4. Ragitha A V, , Assistant Professor, Department of Botany, MES Keveeyam College, Valanchery. 



  
SHAJID P P  
ASSISTANT PROFESSOR  
IN CHARGE OF PRINCIPAL  
MES KEVEEYAM COLLEGE  
VALANCHERY, PIN 676 552

## Horticulture Techniques

**Course Description:** This 30-hour course offers undergraduate students a comprehensive introduction to fundamental techniques in horticulture. Topics covered include plant propagation methods, soil management, pest control strategies, greenhouse technology, sustainable practices, and post-harvest management. Through theoretical sessions, practical demonstrations, and field visits, students will gain hands-on experience and theoretical knowledge essential for understanding and practicing modern horticultural techniques.

### Course Objectives:

- Understand the fundamentals of horticulture and its significance.
- Gain practical skills in propagation, soil management, and pest control.
- Familiarize with greenhouse technology and controlled environment agriculture.
- Learn about sustainable practices in horticulture.
- Develop critical thinking through discussions and case studies.

**Course Outcomes:** By the end of the course, students will be able to:

1. Understand fundamental horticultural principles, including plant anatomy, physiology, and growth processes.
2. Gain proficiency in propagation techniques such as seed and vegetative propagation.
3. Learn soil management practices, including fertilization and composting.
4. Apply sustainable horticultural practices, including organic farming and water conservation.
5. Acquire knowledge of harvesting methods and post-harvest management techniques.

### Scheme of evaluation

- Written Examination (Conventional): 40 marks
- Practical : 10 marks
- Total : 50 marks

A Grade: 80% and above, B Grade: 60 – 79%, C Grade: 40 – 59%, below 40% D Grade



*Edney*

Dr. Janeeshma E.

*SHAJID P P*

SHAJID P P  
ASSISTANT PROFESSOR  
IN CHARGE OF PRINCIPAL  
M.S. KEVEEYAM COLLEGE  
VALANCHERY, PIN 676 567



## **Syllabus: Horticulture techniques (30-hour Certificate Course)**

### **Week 1: Fundamentals of Horticulture**

- **Session 1 (2 hours):** Introduction to horticulture: history, scope, and importance.
- **Session 2 (2 hours):** Plant anatomy and physiology relevant to horticulture.

### **Week 2: Propagation Techniques**

- **Session 3 (2 hours):** Seed propagation techniques.
- **Session 4 (2 hours):** Vegetative propagation techniques: cutting, grafting, and layering.

### **Week 3: Soil and Nutrition Management**

- **Session 5 (2 hours):** Soil types, properties, and their relevance in horticulture.
- **Session 6 (2 hours):** Nutrient management: fertilization, composting, and soil amendments.

### **Week 4: Plant Health and Pest Management**

- **Session 7 (2 hours):** Common pests and diseases in horticulture.
- **Session 8 (2 hours):** Integrated Pest Management (IPM) strategies.

### **Week 5: Greenhouse and Controlled Environment Techniques**

- **Session 9 (2 hours):** Introduction to greenhouse technology.
- **Session 10 (2 hours):** Environmental control and management in controlled environments.

### **Week 6: Practical Techniques and Field Visits**

- **Session 11 (2 hours):** Practical session: potting, transplanting, and maintenance techniques.
- **Session 12 (2 hours):** Field visit to a local horticultural facility or garden.

### **Week 7: Harvesting and Post-Harvest Management**

- **Session 13 (2 hours):** Principles of harvesting and post-harvest handling.
- **Session 14 (2 hours):** Techniques for prolonging post-harvest shelf life.

### **Week 8: Sustainable Horticulture Practices**

- **Session 15 (2 hours):** Sustainable horticulture practices: organic farming, water conservation, and biodiversity.
- **Session 16 (2 hours):** Case studies and discussions on sustainable horticultural practices.



SHANMUGA  
ASSISTANT PROFESSOR  
IN CHARGE OF  
M.F.S. KEYS AND COLLEGE  
VALANCHERY, P.O. SIVAKAM

### Week 9: Special Topics in Horticulture

- **Session 17 (2 hours):** Urban horticulture and vertical gardening.
- **Session 18 (2 hours):** Hydroponics and aquaponics: principles and applications.

### Week 10: Assessment and Wrap-Up

- **Session 19 (2 hours):** Student presentations on a selected horticultural topic.
- **Session 20 (2 hours):** Course review, assessment, and feedback.

### Assessment:

- Quizzes or assignments after each module to assess understanding
- Final project presentation and report evaluation

### Additional Resources:

- Recommended readings and research papers
- Online resources and tutorials for further learning



*[Signature]*  
Dr. Janeeshma K

*[Signature]*

SHAJID F  
ASSISTANT PROFESSOR  
IN CHARGE OF PRINCIPAL  
M.E.S KEVEEYAM COLLEGE  
VALANCHERY, PIN -





**MES KEVEEYAM COLLEGE**

VALANCHERY | MALAPPURAM | KERALA | INDIA

NAAC RE-ACCREDITED WITH "A+" GRADE (3.44)

[www.meskeveeyamcollege.ac.in](http://www.meskeveeyamcollege.ac.in)



DEPARTMENT OF BOTANY

*Organizes*

**CERTIFICATE COURSE ON  
HORTICULTURE TECHNIQUES**

Registration Deadline : 30/11/2022

Duration : 30 hrs

Eligibility: UG Students

For more details: Contact Botany Department



## Mark list

Name of College/Institution/Center : MES KEVEEYAM College, Valanchery  
Name of Course : Horticulture techniques

Sl. No.	Name of candidate	Marks
1	DHANA T.E	25
2	FATHIMA HIBA	23
3	FATHIMA RIYA	20
4	HANAN	25
5	SHELWA C.P	25
6	MUHAMMED NIBIL T.K	25
7	MUHAMMED JASIR	24
8	AISWARYA K	22
9	ARDRA K	23
10	JUZAIRA K	23
11	BASIL K.M	25
12	RISHAD BABU	25
13	FATHIMA NASHA	25
14	FATHIMA SHAFNA	22
15	MURSHIDA SHERIN KAVUNGAL	24
16	RUDHAINA BEEVI	24
17	VASILA	25
18	MUHAMMED RAMEEZ A	23

*Dr. Jameshina E*

*SHAJID P.P.*



SHAJID P.P.  
ASSISTANT PROFESSOR  
IN CHARGE OF PRINCIPAL  
MES KEVEEYAM COLLEGE  
VALANCHERY, PIN 674 502



# MES KEVEEYAM COLLEGE VALANCHERY MALAPPURAM | KERALA

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## Certificate

This is to certify that

KVM/CC/22-23/

JUZAIRA K

has successfully completed the certificate course on "Horticulture Techniques"  
conducted by the Department of Botany, MES  
Keveeyam College, Valanchery during the period 2022-23.

K. L. S.

CO-ORDINATOR

S. P. S.

HEAD OF DEPARTMENT

K. P. V.

Dr. K.P. VINOD KUMAR  
PRINCIPAL







# MES KEVEEYAM COLLEGE VALANCHERY MALAPPURAM | KERALA

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## Certificate

This is to certify that

KVM/CC/22-23/

HANAN 1<sup>st</sup> year Botany

has successfully completed the certificate course on "Agro-culture techniques"

conducted by the Department of Botany, MES

Keveeyam College, Valanchery during the period 2022-23.

K. L. K.

CO-ORDINATOR

S. J. J.

HEAD OF DEPARTMENT





K. P. V.

Dr. K.P. VINOD KUMAR  
PRINCIPAL



**Time table for the short term certificate course**

Date	Day	Name of the faculty	time
1/12/22	Thursday	Dr. Janeeshma E	8.30-9.30, 3.30-4.30
2/12/22	Friday	Sruthi	8.30-9.30, 3.30-4.30
7/12/22	Wednesday	Ragitha	8.30-9.30, 3.30-4.30
8/12/22	Thursday	Dr. Abdul Faisal	8.30-9.30, 3.30-4.30
9/12/22	Friday	Dr. Janeeshma E	8.30-9.30, 3.30-4.30
12/12/22	Monday	Sruthi	8.30-9.30, 3.30-4.30
13/12/22	Tuesday	Ragitha	8.30-9.30, 3.30-4.30
14/12/22	Wednesday	Dr. Abdul Faisal	8.30-9.30, 3.30-4.30
15/12/22	Thursday	Dr. Janeeshma E	8.30-9.30, 3.30-4.30
16/12/22	Friday	Sruthi	8.30-9.30, 3.30-4.30
19/12/22	Monday	Ragitha	8.30-9.30, 3.30-4.30
20/12/22	Tuesday	Dr. Abdul Faisal	8.30-9.30, 3.30-4.30
21/12/22	Wednesday	Dr. Janeeshma E	8.30-9.30, 3.30-4.30
22/12/22	Thursday	Sruthi	8.30-9.30, 3.30-4.30
23/12/22	Friday	Ragitha	8.30-9.30, 3.30-4.30

Dr. Janeeshma E.   
 Sruthi   
 Ragitha   
 Dr. Abdul Faisal 




**SHAJID P P**  
 ASSISTANT PROFESSOR  
 IN CHARGE OF PRINCIPAL  
 M.E.S. KEVEEYAM COLLEGE  
 VAILANCHERY, PIN 676 552



MES KEVEEYAM COLLEGE VALANCHERY

Department of Botany

Unique ID and Name of the Certificate Course : KVM/CC/BOT/22-23/03; Horticulture Techniques

Sl No	Name of the student	Class/ Semester	Date												23/12		
			1/12	2/12	7/12	8/12	9/12	12/12	13/12	14/12	15/12	16/12	19/12	20/12		21/12	22/12
1.	MOHAMMED JASIR MP	1 <sup>st</sup> sem															
2.	MOHAMMED NIBIL TK	1 <sup>st</sup> sem															
3.	DHANA TE	1 <sup>st</sup> sem															
4.	FATHIMA HIBA T	1 <sup>st</sup> sem															
5.	FATHIMA RIYA P	1 <sup>st</sup> sem															
6.	HANAN	1 <sup>st</sup> sem															
7.	SHELWA CP	1 <sup>st</sup> sem															
8.	BASIL KM	1 <sup>st</sup> sem															
9.	RISHAD BABU MANKARATHODI	1 <sup>st</sup> sem															
10.	AISWARIYA K	1 <sup>st</sup> sem															
11.	ARDRA K	1 <sup>st</sup> sem															

Assistant Professor  
In Charge of Principal  
MES KEVEEYAM COLLEGE







### List of students completed the course

Sl. No.	Name of the student
1.	MOHAMMED JASIR MP
2.	MOHAMMED NIBIL TK
3.	DHANA TE
4.	FATHIMA HIBA T
5.	FATHIMA RIYA P
6.	HANAN
7.	SHELWA CP
8.	BASIL KM
9.	RISHAD BABU MANKARATHODI
10.	AISWARIYA K
11.	ARDRA K
12.	JUZAIRA K
13.	MOHAMMED ASHIQ M
14.	MOHAMMED RAMEEZ A
15.	FATHIMA NASHA
16.	FATHIMA SHAFNA
17.	MURSHIDA SHERIN KAVUNGAL
18.	NIVEDHITHA MADHU
19.	RUDHAINA BEEVI
20.	VASILA PP



Dr. Janeeshma K.

Eduly

*[Handwritten signature in green ink]*

SHAJID P  
ASSISTANT PROFESSOR  
IN CHARGE OF PRINCIPAL  
M.E.S KEVEEYAM COLLEGE,  
VALANCHERY, PIN 686 005