

DEVA MATHA COLLEGE KURAVILANGAD

Affiliated to Mahatma Gandhi University, Kottayam



REPORT

ON

UGC AIDED ADD ON COURSE

CERTIFICATE COURSE IN SERICULTURE

Academic Year: 2017-18

UGC AIDED ADD ON COURSE
CERTIFICATE COURSE IN SERICULTURE
2017-18

Sericulture, also known as silkworm farming, involves the rearing of silkworms for the production of raw silk. A number of commercial species of silkworms are reared, the notable one being *Bombyx mori* is extensively used and studied. Since it also involves cultivation of mulberry, the primary source of feed for the mulberry silkworms, it is an Agri-based enterprise playing a major role in the development of the rural economy. It being a cottage industry provides a wide range of employment opportunities to the rural population particularly women. The college successfully conducted the certificate course in sericulture during the academic year 2017-18 by conducting theory and practical classes and publishing the results after exams.

Syllabus

TOTAL CREDITS 20

Course Objectives

1. Give a thorough knowledge about cultivation of mulberry , maintenance of farm and seed technology
2. Train the students in plantation and harvesting of mulberry cultivation
3. Study about storage , transportation and preservation of leaf
4. Know about manuring, diseases and pests and thereby enhance production
5. Acquire skills necessary for self employment in mulberry cultivation

THEORY

Unit I Introduction to sericulture.

CREDIT - 1

- 1.1 Definition, history and present status of sericulture in India.
- 1.2 Types of silkworms, their food plants and distribution.
- 1.3 Economic importance and uses of silk.

Unit II General aspects on mulberry cultivation.

CREDIT - 3

- 2.1 Classification, distribution and common varieties of mulberry used in sericulture.
- 2.2 Seedling and vegetative propagation of mulberry.
- 2.3 Chemical composition and nutritive properties of mulberry leaves.
- 2.4 Physical and chemical properties of soil: Soil moisture, water requirement and nature of soil for mulberry cultivation.
- 2.5 Levelling, ploughing and preparation of land for cultivation.

- 2.6 Manuring - organic, inorganic, bio fertilizers and micronutrients.

Unit III Mulberry management

CREDIT – 2

- 3.1 Plantation method - Row and pit system.
 - 3.2 Plant management - Soil, ploughing, irrigation, drainage, weeding.
 - 3.3 Pruning - Bottom, middle and top pruning, kolar system.
 - 3.4 Harvesting - Timing of harvesting, leaf picking, shoot leaf harvesting and branch harvesting.
 - 3.5 Storage, transportation and preservation of leaf.
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Unit IV Mulberry silkworm

CREDIT - 3

- 4.1 Taxonomic classification of *Bombyx mori*.
- 4.2 Races of mulberry silkworms.
- 4.3 Life cycle of *B.Mori* - Egg, larva, pupa, and adult. Lifespan, bionomics, circadian rhythm and behaviour.
- 4.4 External and internal morphology of egg larva and pupa.
- 4.5 Sexual dimorphism in larva, pupa and adult (male and female)
- 4.6 Growth rate of larval stages.

Unit V Silkworm rearing house and appliances.

CREDIT – 3

- 5.1 Construction of ideal rearing house of suitable size at suitable site, representing C.S.B. model.
- 5.2 Humidity, their control devices, appliances used for silkworm rearing and disinfects.
- 5.3 Mountages - Bamboo, plastic, nylon, etc.
- 5.4 Feeding appliances - Leaf chamber, chopping knife, and chopping board.
- 5.5 Rearing method for young larva and mature larva.
- 5.6 Mounting and harvesting of cocoon.

Outcomes:

1. On completion of the course students will be able to understand overall aspects of sericulture like cultivation, harvesting and storage.
2. This course will create awareness on the economic importance of mulberry cultivation.
3. Students will learn various technologies involved in sericulture cultivation

Students List

Sl No.	Cl. No	Name	Class
1	401	Antony Johnson	I DC Zoology
2	402	Arun Sajeev	I DC Zoology
3	403	Bijith Babu	I DC Zoology
4	404	Harikrishnan AM	I DC Zoology
5	405	Sujith S	I DC Zoology
6	406	Anjaly Manoj	I DC Zoology
7	407	Devika Udayakumar	I DC Zoology
8	408	Greeshma G Nair	I DC Zoology
9	410	Nima Rose Thomas	I DC Zoology
10	411	Parvathy Rajeesh	I DC Zoology
11	412	Sangeetha Soman	I DC Zoology
12	414	Sneha KS	I DC Zoology
13	415	Sradha Dinesh Kumar	I DC Zoology
14	416	Sreelakshmi P Kumar	I DC Zoology
15	417	Sreelakshmi VS	I DC Zoology
16	418	Sreelakshmi V	I DC Zoology
17	419	Sruthy Sugunan	I DC Zoology
18	421	Veena M P	I DC Zoology
19	422	Vidya PV	I DC Zoology
20	423	Vishnupriya CM	I DC Zoology
21	424	Akhil John	I DC Zoology
22	425	Akshay Ajay	I DC Zoology
23	426	Amal Suresh	I DC Zoology
24	427	Abhirami Babu	I DC Zoology
25	428	Abhirami V A	I DC Zoology
26	429	Ajana Ajay Ghosh	I DC Zoology
27	430	Amala B	I DC Zoology
28	431	Aneesha Prakash	I DC Zoology
29	432	Athira Rajeev	I DC Zoology
30	433	Athulya Pratapchandran	I DC Zoology
31	434	Fella Mary John	I DC Zoology
32	435	Feyba Jijimon K	I DC Zoology
33	436	Jeslin Jose	I DC Zoology
34	437	Juli Joseph	I DC Zoology
35	438	Lerin Rajan	I DC Zoology
36	440	Maria Foustina	I DC Zoology
37	441	Minnu Maniappan	I DC Zoology
38	442	Pavithra K Reji	I DC Zoology
39	445	Sahishna Santosh	I DC Zoology

31	434	Fella Mary John	X	X	X	X	X	AB	X	X	AB	X
32	435	Feyba Jijimon K	X	X	X	AB	X	X	X	X	X	X
33	436	Jeslin Jose	X	X	X	X	X	X	X	X	X	X
34	437	Juli Joseph	AB	X	X	X	X	X	X	AB	X	AB
35	438	Lerin Rajan	X	X	X	X	X	X	X	X	AB	X
36	440	Maria Foustina	X	X	X	X	AB	X	AB	X	X	X
37	441	Minnu Maniappan	X	X	X	X	X	X	X	X	X	X
38	442	Pavithra K Reji	X	X	AB	AB	X	X	X	AB	X	AB
39	445	Sahishna Santosh	X	X	X	X	X	X	X	X	X	X
40	446	Sona Binoy	AB	X	X	X	X	X	AB	X	AB	X
41	447	Sreelakshmi TV	X	X	X	X	X	X	X	X	X	X
42	502	Ariya E S	X	X	X	X	AB	X	X	X	X	X
43	503	Athira Raveendran	X	X	X	X	X	X	X	X	X	X
44	505	Jyothis Thomas	X	X	AB	X	X	X	X	X	X	X
45	507	Sandra Sathyan	X	X	X	X	X	AB	X	X	X	X
46	508	Suganthi V G	X	X	X	X	X	X	X	X	X	X
47	509	Sujila K	X	AB	X	X	AB	X	X	X	X	X

Sl No.	Cl. No	Name	Thursday, 10 August, 2017	Friday, 11 August, 2017	Monday, 14 August, 2017	Wednesday, 16 August, 2017	Thursday, 17 August, 2017	Friday, 18 August, 2017	Monday, 21 August, 2017	Tuesday, 22 August, 2017	Wednesday, 23 August, 2017	Thursday, 24 August, 2017
1	401	Antony Johnson	X	X	X	X	X	X	X	AB	X	X
2	402	Arun Sajeev	X	X	X	X	AB	X	X	X	X	X
3	403	Bijith Babu	AB	X	X	X	X	X	X	X	X	X
4	404	Harikrishnan AM	X	X	X	X	AB	X	X	X	X	X
5	405	Sujith S	X	X	X	AB	X	X	X	AB	X	X
6	406	Anjaly Manoj	X	X	X	X	X	X	X	X	X	X
7	407	Devika Udayakumar	X	X	AB	X	X	X	X	X	X	X
8	408	Greeshma G Nair	X	X	X	X	X	AB	X	X	X	X
9	410	Nima Rose Thomas	X	X	X	X	X	X	X	X	X	X
10	411	Parvathy Rajeesh	AB	X	X	AB	X	X	X	X	X	X
11	412	Sangeetha Soman	X	X	X	X	X	X	X	X	X	X
12	414	Sneha KS	X	X	X	X	X	X	X	X	X	X
13	415	Sradha Dinesh Kumar	X	AB	X	X	AB	X	X	X	X	X
14	416	Sreelakshmi P Kumar	X	X	X	X	X	AB	X	X	X	X
15	417	Sreelakshmi VS	X	X	X	X	X	X	X	X	X	X
16	418	Sreelakshmi V	X	X	X	X	X	X	AB	X	X	X
17	419	Sruthy Sugunan	X	X	X	X	X	X	X	X	X	X
18	421	Veena M P	X	X	X	X	AB	X	X	X	X	AB
19	422	Vidya PV	X	X	AB	AB	X	X	X	X	X	X
20	423	Vishnupriya CM	X	X	X	AB	X	X	X	AB	X	X
21	424	Akhil John	X	X	X	X	X	X	X	X	X	X
22	425	Akshay Ajay	X	X	AB	X	X	X	X	X	X	X
23	426	Amal Suresh	X	X	X	AB	AB	X	AB	X	X	X
24	427	Abhirami Babu	X	X	X	X	X	X	X	X	X	X
25	428	Abhirami V A	X	AB	X	X	X	X	X	X	X	X
26	429	Ajana Ajay Ghosh	AB	AB	X	X	X	X	X	X	X	AB
27	430	Amala B	X	X	X	X	X	AB	X	X	X	X

28	431	Aneesha Prakash	X	X	X	X	AB	X	X	X	X	X
29	432	Athira Rajeev	X	X	X	X	X	X	X	X	X	X
30	433	Athulya Prapatchandran	X	X	X	X	X	X	X	X	X	X
31	434	Fella Mary John	X	X	X	X	X	AB	X	X	AB	X
32	435	Feyba Jijimon K	X	X	X	AB	X	X	X	X	X	X
33	436	Jeslin Jose	X	X	X	X	X	X	X	X	X	X
34	437	Juli Joseph	AB	X	X	X	X	X	X	AB	X	AB
35	438	Lerin Rajan	X	X	X	X	X	X	X	X	AB	X
36	440	Maria Foustina	X	X	X	X	AB	X	AB	X	X	X
37	441	Minnu Maniappan	X	X	X	X	X	X	X	X	X	X
38	442	Pavithra K Reji	X	X	AB	AB	X	X	X	AB	X	AB
39	445	Sahishna Santosh	X	X	X	X	X	X	X	X	X	X
40	446	Sona Binoy	AB	X	X	X	X	X	AB	X	AB	X
41	447	Sreelakshmi TV	X	X	X	X	X	X	X	X	X	X
42	502	Ariya E S	X	X	X	X	AB	X	X	X	X	X
43	503	Athira Raveendran	X	X	X	X	X	X	X	X	X	X
44	505	Jyothis Thomas	X	X	AB	X	X	X	X	X	X	X
45	507	Sandra Sathyan	X	X	X	X	X	AB	X	X	X	X
46	508	Suganthi V G	X	X	X	X	X	X	X	X	X	X
47	509	Sujila K	X	AB	X	X	AB	X	X	X	X	X

Sl No.	Cl. No	Name	Friday, 25 August, 2017	Saturday, 26 August, 2017	Tuesday, 29 August, 2017	Wednesday, 30 August, 2017	Thursday, 31 August, 2017	Monday, 11 September, 2017	Wednesday, 13 September, 2017	Thursday, 14 September, 2017	Friday, 15 September, 2017	Tuesday, 19 September, 2017
1	401	Antony Johnson	X	X	AB	X	X	X	X	X	X	X
2	402	Arun Sajeev	X	X	X	X	X	X	X	X	X	X
3	403	Bijith Babu	X	X	X	X	X	AB	X	X	X	X
4	404	Harikrishnan AM	X	X	X	X	X	X	X	X	X	X
5	405	Sujith S	X	X	AB	X	X	X	X	X	AB	X
6	406	Anjaly Manoj	X	X	X	X	X	X	X	X	X	X
7	407	Devika Udayakumar	X	X	X	X	X	X	X	AB	X	X
8	408	Greeshma G Nair	AB	X	X	X	X	X	X	X	X	X
9	410	Nima Rose Thomas	X	X	X	X	X	X	X	X	X	X
10	411	Parvathy Rajeeesh	X	X	X	X	X	AB	X	X	AB	X
11	412	Sangeetha Soman	X	X	X	X	X	X	X	X	X	X
12	414	Sneha KS	X	X	X	X	X	X	X	X	X	X
13	415	Sradha Dinesh Kumar	X	X	X	X	X	X	AB	X	X	X
14	416	Sreelakshmi P Kumar	AB	X	X	X	X	X	X	X	X	X
15	417	Sreelakshmi VS	X	X	X	X	X	X	X	X	X	X
16	418	Sreelakshmi V	X	AB	X	X	X	X	X	X	X	AB
17	419	Sruthy Sugunan	X	X	X	X	X	X	X	X	X	X
18	421	Veena M P	X	X	X	X	AB	X	X	X	X	X
19	422	Vidya PV	X	X	X	X	X	X	X	AB	AB	X
20	423	Vishnupriya CM	X	X	AB	X	X	X	X	X	AB	X
21	424	Akhil John	X	X	X	X	X	X	X	X	X	X
22	425	Akshay Ajay	X	X	X	X	X	X	X	AB	X	X

8	408	Greeshma G Nair	X	X	X	X	X	X	AB	X	X	X
9	410	Nima Rose Thomas	X	X	X	X	X	X	X	X	AB	X
10	411	Parvathy Rajeesh	X	X	AB	X	X	X	AB	X	X	X
11	412	Sangeetha Soman	X	X	X	X	X	X	X	X	X	X
12	414	Sneha KS	X	X	X	X	X	X	X	X	X	X
13	415	Sradha Dinesh Kumar	AB	X	X	X	X	X	X	X	X	X
14	416	Sreelakshmi P Kumar	X	X	AB	X	X	X	X	X	X	X
15	417	Sreelakshmi VS	X	X	X	X	X	X	X	X	X	X
16	418	Sreelakshmi V	X	X	X	X	X	X	X	AB	X	X
17	419	Sruthy Sugunan	X	X	X	X	X	AB	X	X	X	X
18	421	Veena M P	X	X	X	X	X	X	X	X	X	X
19	422	Vidya PV	AB	X	X	X	X	X	X	X	X	X
20	423	Vishnupriya CM	X	X	X	X	X	X	X	X	X	X
21	424	Akhil John	X	AB	X	X	X	X	X	X	X	X
22	425	Akshay Ajay	X	X	X	X	X	X	X	X	X	X
23	426	Amal Suresh	X	X	X	X	X	AB	X	AB	X	X
24	427	Abhirami Babu	X	X	X	X	X	X	X	X	X	X
25	428	Abhirami V A	X	X	X	X	X	X	AB	X	X	X
26	429	Ajana Ajay Ghosh	X	X	X	X	X	X	X	X	X	X
27	430	Amala B	X	X	X	X	X	X	AB	X	X	X
28	431	Aneesha Prakash	X	X	X	X	X	X	X	X	X	X
29	432	Athira Rajeev	X	X	X	X	X	X	X	X	X	X
30	433	Athulya Pratapchandran	X	X	X	X	X	X	X	X	X	X
31	434	Fella Mary John	X	X	X	X	AB	X	AB	X	X	X
32	435	Feyba Jijimon K	X	X	X	X	X	X	X	X	X	X
33	436	Jeslin Jose	X	X	X	X	X	X	X	X	X	X
34	437	Juli Joseph	AB	AB	X	AB	X	AB	X	X	X	X
35	438	Lerin Rajan	X	X	X	X	AB	X	X	X	X	X
36	440	Maria Foustina	X	X	AB	X	X	X	X	X	X	X
37	441	Minnu Maniappan	X	X	X	X	X	X	X	X	X	X
38	442	Pavithra K Reji	X	X	X	AB	X	AB	X	X	X	X
39	445	Sahishna Santosh	X	X	X	X	X	X	X	X	X	X
40	446	Sona Binoy	X	X	AB	X	AB	X	X	X	X	X
41	447	Sreelakshmi TV	X	X	X	X	X	X	X	X	X	X
42	502	Ariya E S	X	X	X	X	X	X	X	X	X	X
43	503	Athira Raveendran	X	X	X	X	X	X	X	X	X	X
44	505	Jyothis Thomas	X	X	X	X	X	X	X	X	X	X
45	507	Sandra Sathyan	X	X	X	X	X	X	AB	X	X	X
46	508	Suganthi V G	X	X	X	X	X	X	X	X	AB	X
47	509	Sujila K	AB	X	X	X	X	X	X	X	X	X

Sl No.	Cl. No	Name	Thursday, 2 November, 2017	Friday, 3 November, 2017	Saturday, 4 November, 2017	Monday, 6 November, 2017
1	401	Antony Johnson	X	X	AB	AB

2	402	Arun Sajeev	X	X	X	X
3	403	Bijith Babu	X	X	X	X
4	404	Harikrishnan AM	X	X	X	X
5	405	Sujith S	X	X	AB	AB
6	406	Anjaly Manoj	X	X	X	X
7	407	Devika Udayakumar	X	X	X	X
8	408	Greeshma G Nair	X	X	X	X
9	410	Nima Rose Thomas	X	X	X	X
10	411	Parvathy Rajeesh	X	X	X	X
11	412	Sangeetha Soman	X	X	X	X
12	414	Sneha KS	X	AB	X	X
13	415	Sradha Dinesh Kumar	X	X	X	X
14	416	Sreelakshmi P Kumar	X	X	X	X
15	417	Sreelakshmi VS	X	X	X	X
16	418	Sreelakshmi V	X	X	X	X
17	419	Sruthy Sugunan	X	X	X	X
18	421	Veena M P	X	AB	X	X
19	422	Vidya PV	X	X	X	X
20	423	Vishnupriya CM	X	X	AB	AB
21	424	Akhil John	X	X	X	X
22	425	Akshay Ajay	X	X	X	X
23	426	Amal Suresh	X	X	X	X
24	427	Abhirami Babu	X	X	X	X
25	428	Abhirami V A	X	X	X	X
26	429	Ajana Ajay Ghosh	X	X	X	X
27	430	Amala B	X	X	X	X
28	431	Aneesha Prakash	X	X	X	X
29	432	Athira Rajeev	X	X	X	X
30	433	Athulya Prapatchandran	X	X	X	X
31	434	Fella Mary John	X	X	X	X
32	435	Feyba Jijimon K	X	X	X	X
33	436	Jeslin Jose	X	X	X	X
34	437	Juli Joseph	X	X	AB	AB
35	438	Lerin Rajan	X	X	X	X
36	440	Maria Foustina	X	X	X	X
37	441	Minnu Maniappan	X	X	X	X
38	442	Pavithra K Reji	X	X	AB	AB
39	445	Sahishna Santosh	X	X	X	X
40	446	Sona Binoy	X	X	X	X
41	447	Sreelakshmi TV	X	X	X	X
42	502	Ariya E S	X	X	X	X
43	503	Athira Raveendran	X	X	X	X
44	505	Jyothis Thomas	X	X	X	X
45	507	Sandra Sathyan	X	X	X	X
46	508	Suganthi V G	X	X	X	X
47	509	Sujila K	X	X	X	X

Reg. No.....

CAREER ORIENTED ADD-ON PROGRAMME
Sponsored by
UNIVERSITY GRANTS COMMISSION
Approved by MAHATMA GANDHI UNIVERSITY
Conducted by

DEVA MATHA COLLEGE
KURAVILANGAD

The Career Orientation Council for the UGC Career-Oriented Program of
.....*hereby makes known that*
.....*has been awarded*
Certificate/Diploma/Advanced Diploma in
..... *conducted by the Department of*
....., *he/she*
having been certified by the duly appointed examiners to be qualified to receive
the same and having been placed by them in Grade *at the examination*
held in

<p>DIRECTOR College Development Council Mahatma Gandhi University Kottayam, Kerala - 686 560</p> <p style="text-align: center;">(Seal)</p>	<p style="text-align: center;">PRINCIPAL</p> <p style="text-align: center;">(College seal)</p>
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Date :

University Sl. No.....



Principal
Deva Matha College
Kuravilangad - 686 633





Dr. Brincy Mathew
Add-on Course General Coordinator