

2022-23

Short term course on

**“ Sustainable Beekeeping for
Beginners ”**

From

The Head of the Department

Department of Zoology

MES Keveeyam College, Valanchery

To

The Principal

MES Keveeyam College, Valanchery

Sir,

Sub: Request for the Approval of Short term Course

The Department of Zoology is planning to conduct a Certificate Course on "Sustainable Beekeeping for Beginners" of 30 hours duration for the first and second year UG students. So kindly grant permission for the same.

Thanking you.

Yours faithfully,


(Krishna Preethi. K. J.)

Place: Valanchery

Date: 10/10/2022



SHAJID P P
ASSISTANT PROFESSOR
IN CHARGE OF PRINCIPAL
MES KEVEEYAM COLLEGE
VALANCHERY

From

The Head of the Department
Department of Zoology
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 "Sustainable Beekkeeping for Beginners" to be conducted by the department.

1. Dr.Karthikeyan K,Associate Director,Department of Entomology,Regional Agriculture Research station,Pattambi
2. Dr. Shereena K M, Assistant Professor, MES Ponnani College
3. Prof. P M Khairunnissa, Former HOD & Associate Professor, Department of Zoology, MES Keveeyam College, Valanchery
4. Dr. Krishna Prabha K S, Assistant Professor, Department of Zoology, MES Keveeyam College ,Valanchery
5. Dr. Priya T V, Assistant Professor, Department of Zoology, MES Keveeyam College, Valanchery.
6. Dr. Jisha Krishnan EK, Assistant Professor, Department of Zoology, MES Keveeyam College ,Valanchery.

Kindly do the needful to constitute the Board of Studies with these members.

Thanking you.

Yours faithfully,



Place: Valanchery

Date: 14/10/2022



SHAJID P P
ASSISTANT PROFESSOR
IN CHARGE OF PRINCIPAL
MES KEVEEYAM COLLEGE
VALANCHERY, PIN 6



MES KEVEEYAM COLLEGE

Re-accredited by NAAC with A Grade
(Affiliated to the University of Calicut)

Valanchery – 676552, Malappuram Dt., Kerala

Phone: 0494 – 2644380, 2642670, 2641347(Fax), www.meskvcollege.org

Email: principal@meskvcollege.org

Order No. Acs/2022-23/01

Date: 17/10/2022

Proceedings of the Principal, MES Keveeyam College Valanchery

(Present: Prof. Shajid P.P)

- Ref: (1) Request from the Head of the Department of Zoology dt: 10/10/2022
(2) Minutes of Board of Studies meeting for approval of the syllabus dt: 14/10/2022

ORDER

As per reference cited (1), request was received from the HOD, Department of Zoology to start a short term course on “Sustainable Beekeeping for Beginners”. 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 Zoology 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. Karthikeyan K, Associate Director, Department of Entomology, Regional Agriculture Research station, Pattambi
2. Dr. Shereena K M, Assistant Professor, MES Ponnani College
3. Prof. P M Khairunnissa, Former HOD & Associate Professor, Department of Zoology, MES Keveeyam College, Valanchery
4. Dr. Krishna Prabha K S, Assistant Professor, Department of Zoology, MES Keveeyam College, Valanchery
5. Dr. Priya T V, Assistant Professor, Department of Zoology, MES Keveeyam College, Valanchery.
6. Dr. Jisha Krishnan EK, Assistant Professor, Department of Zoology, MES Keveeyam College, Valanchery

Order is issued accordingly.

Principal

Prof. Shajid P.P

PRINCIPAL

MES KEVEEYAM COLLEGE
VALANCHERY, PIN 676552
MALAPPURAM

Copy to

1. HOD, Department of Zoology
2. File

MINUTES OF BOARD OF STUDIES MEETING

Venue: Department of Zoology

Date: 14/10/2022

Agenda: Approval of syllabus of the short term course

Decisions:-

1. Discussions were done on the draft syllabus
2. Syllabus modified
3. A one day Training Programme has to be included.
4. Approval can be given to syllabus

Members Present:

1. Dr. Karthikeyan K, Associate Director, Department of Entomology, Regional Agriculture Research station, Pattambi. 
2. Dr. Shereena K M, Assistant Professor, MES Ponnani College 
3. Prof. P M Khairunnissa, Former HOD & Associate Professor, Department of Zoology, MES Keveeyam College, Valanchery 
4. Dr. Krishna Prabha K S, Assistant Professor, Department of Zoology, MES Keveeyam College, Valanchery 
5. Dr. Priya T V, Assistant Professor, Department of Zoology, MES Keveeyam College, Valanchery. 
6. Dr. Jisha Krishnan EK, Assistant Professor, Department of Zoology, MES Keveeyam College, Valanchery 



SHAJID P P
ASSISTANT PROFESSOR
IN CHARGE OF PRINCIPAL
MES KEVEEYAM COLLEGE
VALANCHERY

**Members of Board of Studies for the short term course offered by the
Department of Zoology, MES KeVeeYam College, Valanchery.**

1. Dr.Karthikeyan K,Associate Director,Department of Entomology,Regional Agriculture
Research station,Pattambi.

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2. Dr. Shereena K M, Assistant Professor, MES Ponnani College.

Shereena

3. Prof. P M Khairunnissa, Former HOD & Associate Professor, Department
of Zoology, MES Keveeyam College, Valanchery

P M Khairunnissa

4. Dr. Krishna Prabha K S, Assistant Professor, Department of Zoology, MES
Keveeyam College ,Valanchery

Dr. Krishna Prabha K S

5. Dr. Priya T V, Assistant Professor, Department of Zoology, MES
Keveeyam College ,Valanchery.

Priya T V

6. Dr. Jisha Krishnan EK, Assistant Professor, Department of Zoology, MES
Keveeyam College ,Valanchery

Jisha Krishnan EK

Shamir P P

SHAMIR P P
ASSISTANT PROFESSOR
IN CHARGE OF PRINCIPAL
MES KEVEEYAM COLLEGE
VALANCHERY



MES KEVEEYAM COLLEGE
VALANCHERY I MALAPPURAM I KERALA
NAAC RE-ACCREDITED WITH "A+" GRADE (3.44)
www.meskeveeyamcollege.ac.in

DEPARTMENT OF ZOOLOGY
offering **CERTIFICATE COURSE IN**
" SUSTAINABLE
BEE-KEEPING
FOR
BEGINNERS "

(Duration 30 hrs including hands on training)

Interested candidates may contact
Department of Zoology
on or before 4/11/2022

Signature

SHAJID P
ASSISTANT PROFESSOR
IN CHARGE OF PRINCIPAL
MES KEVEEYAM COLLEGE
VALANCHERY, PIN 676 432

**SHORT TERM COURSE ON
“SUSTAINABLE BEEKEEPING FOR BEGINNERS”
KVM/CC/ZOO/22-23/01**

Objectives

- Give an awareness about Apiculture
- Understand the biodiversity conservation with special reference to Honey bee colony
- Understand the commercial importance of Apiculture

Outcomes

- To improve quality of environment
- To create an awareness among students on Honeybees
- To develop skills for cultivating rearing and harvesting
- To develop a group with a set of values for environmental protection and biodiversity conservation

Evaluation

- Conducting examinations
- Written assignment
- Seminar presentations
- Oral assessment and ppt presentations
- Quiz competitions
- Debate

Apiculture training programmes were included in the syllabus for valuable learning, enhancing practical skills and also promoting commercial out reaches.



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

Department of Zoology
MES Keveeyam College, Valanchery
Short Term Course on “Sustainable Bee-keeping for beginners”
KVM/CC/ZOO/22-23/01

Syllabus

Duration 30 hours

Module: 1

Introduction, Scope of Apiculture in Kerala (2 hour)

Module: 2

Major species of Honey bees (wild & cultivable): (6 hour)

Social Organization of Honey bees- Features of queen, drones and workers

Life History of Honey bees.

Module:3- Appliances & Accessories used in Apiculture (8 hours)

Bee hives- types, structure

Accessories- comb foundation, Queen excluder, feeders, uncapping knife, Honey extractor etc.

Equipment for handling Honey bees

Module: 4 Installation and management of Apiary (2 hour)

Module: 5 Bee pasturage (1 hour)

Module:6 Enemies of honey bees- Identification & Management (2 hours)

Module: 7 Diseases of honey bees- Pathogenicity & Control (2 hours)

Module: 8 Bee Products (2 hours)

Honey, Bees wax, Royal jelly, Bee bread, propolis, bee venom

Module :9 Practical sessions on Apiculture (5 hours)



SHAJID P.T.
ASSISTANT PROFESSOR
IN CHARGE OF PRINCIPAL
MES KEVEEYAM COLLEGE
VALANCHERY

TIME TABLE FOR THE SHORT TREM COURSE

DATE	NAME OF FACULTY ENGAGING THE CLASS	TIME
25/10/22	JK	3.30 to 4.30
26/10/22	KSK	3.30 to 4.30
27/10/22	JK	3.30 to 4.30
28/10/22	AB	3.30 to 4.30
31/10/22	AS	3.30 to 4.30
1/3/22	RM	3.30 to 4.30
2/3/22	JK	3.30 to 4.30
3/3/22	AS	3.30 to 4.30
4/3/22	VJ	3.30 to 4.30
7/3/22	JK	3.30 to 4.30
8/3/22	KSK	3.30 to 4.30
9/3/22	AS	3.30 to 4.30
10/3/22	AB	3.30 to 4.30
3/3/22	AB	3.30 to 4.30
14/3/22	AS	3.30 to 4.30
15/3/22	JK	3.30 to 4.30
16/3/22	VJ	3.30 to 4.30
17/3/22	AB	3.30 to 4.30
18/3/22	AS	3.30 to 4.30
21/3/22	VJ	3.30 to 4.30


SHAJID P.P.
 ASSISTANT PROFESSOR
 IN CHARGE OF PRINCIPAL
 M.E.S. KEVERNAM COLLEGE
 VALANCHERY, S.N.E.T.

22//3/22	AB	3.30 to 4.30
23/3/22	RM	3.30 to 4.30
24//3/22	VJ	3.30 to 4.30
25/3/22	AB	3.30 to 4.30
28/3/22	KSK	3.30 to 4.30

KSK:Krishnaprabha(4Hr)

AB:Aysha Banu (5Hr)

RM:Reshmi 4Hr)

JK:Jisha Krishnan E.K (4Hr)

VJ:Vijithra (4Hr)

AS:Aswathy (5 hrs)

KRISHINA PRABHA K.S
ASSISTANT PROFESSOR
HOD, Department of Zoology
MES Keveeyam College
Valanchery-676 552

SHAJID V.I
ASSISTANT PROFESSOR
IN CHARGE OF PRINCIPAL
M.E.S KEVEEYAM COLLEGE
VALANCHERY

SHORT TERM COURSE ON "Sustainable bee Keeping for Beginners"

SINO	ROLL NO.	NAME OF THE STUDENT	STUDENT ATTENDANCE											
			October - November											
			18	21	22	23	24	25	28	29	30	1		
1	22101	AMEEN NK												
2	22102	ANSHIDHA P												
3	22103	ANSILA P												
4	22104	FAHMIDA K												
5	22105	FATHIMA MAHRUFA, M												
6	22106	FATHIMA SHAHANA												
7	22107	FATHIMA THAHISIN												
8	22108	FEMINA T												
9	22109	LASSIMA O P												
10	22110	NARJAS N M												
11	22111	RINSHA SHERIN												
12	22112	SAFNA YOOSAF P												
13	22113	SANIYA V												
14	22114	SHAHANA SHERIN P T												
15	22115	SUMAYYA K.B												
16	22116	ANJANA A												

ASSISTANT PROFESSOR
HOD OF Zoology
Kannur University
Kannur-690 552

SHAJID P P
ASSISTANT PROFESSOR
HOD OF PRINCIPAL
Kannur University
Kannur-690 552

Sl No	Name of the student	Students Attendance									
		18	21	22	23	24	25	28	29	30	1
16	ARUNDHATHI K G	a	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund
17	ARYA NANDANAN V A	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund
18	FATHIMA BATHOOL P K	Arund	a	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund
19	FIDHA	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund
20	HIBHA	Arund	Arund	Arund	Arund	Arund	Arund	a	Arund	Arund	Arund
21	LUBNA C P	/	/	/	/	/	/	/	/	/	/
22	ZAHARATH SULTHANA M	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund
23	AMAL RAHMAN P T	/	/	a	/	/	/	/	/	/	/
24	JUMA JASIL	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund	a	Arund
25	YADU GOVIND. G. S	a	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund
26	AKSHAYA	Arund	Arund	Arund	Arund	Arund	a	Arund	Arund	Arund	Arund
27	ANULAKSHMI. C.T	/	/	/	/	/	/	/	/	/	a
28	FAHEEMA	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund
29	FATHIMA RASHA M P	Arund	Arund	Arund	Arund	Arund	Arund	a	Arund	Arund	Arund
30	FATHIMA RIDHA	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund
31	HANSHIDHA K P	a	Arund	Arund	a	Arund	Arund	Arund	Arund	Arund	Arund
32	HARSHA K P	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund	a	Arund
33	HIMNA DAS K	/	/	/	/	a	/	/	/	/	/
34	JAHANA SHERIN	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund
35	MEGHA K	Arund	Arund	Arund	Arund	a	Arund	Arund	Arund	Arund	Arund
36	NAINA	Arund	Arund	Arund	Arund	Arund	a	Arund	Arund	Arund	Arund
37	SAFA	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund
38	VIBINA	a	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund
39	ZULEKHA	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund	Arund	a

[Signature]

KRISHNA PRABHA K.S
ASSISTANT PROFESSOR
HOD, Department of Zoology
MES Keveeyam College
Valanchery-676 552

[Signature]

SHARAD P P
ASSISTANT PROFESSOR
CHARGE OF PRINCIPAL
MES Keveeyam College

[illegible]

KRISHNA PRABHA K.S
ASSISTANT PROFESSOR
HOD, Department of Zoology
MES Keveeyam College
Valanchery-676 552

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

MESKVEEYAM COLLEGE VALANCHEY
SUSTAINABLE BEE KEEPING FOR BEGINNERS

KVM/CC/ZOO/22-23/01

2022-23

MAXIMUM WEIGHTAGE : 70

Time : 3 HRS

Answer all questions

(4x1=4)

1. Define Propolis ?
2. What is Royal Jelly ?
3. Father of modern Bee science?
4. Name the causative agent of Nosema of Adult Honey bee?

Answer all questions

(4x4=16)

5. Write down the modern methods for the extraction of Honey Bee?
6. What are waggle dance and round dance?
7. What is Nuptial flight? Write any 4 uses of Honey?
8. With neat sketch briefly explain the life cycle of Bombyx mori?

Answer all questions

(5x4=20)

9. Write brief account on Bee pasturage & apiculture as cottage industry
10. Briefly write down the social behavior of Honey bees ?
11. What is Silk? Briefly explain the chemical composition of Silk?
12. What are the different types of bee hives and their structure?

Answer any 2 questions

(5x4=20)

14. Briefly explain the bee keeping equipments ?
15. Briefly explain the modern methods in employing artificial bee hives for cross pollination in horticulture plants?
16. Write down the diseases, causative agents, symptoms and management of natural enemies of Honey bees?



MESKVEEYAM
ASSISTANT PROFESSOR
IN CHARGE OF PRINCIPAL
M.E.S.KEVEEYAM COLLEGE
VALANCHERY, PIN 676 557

DEPARTMENT OF ZOOLOGY
CERTIFICATE COURSE RESULT 2022-23

SL.NO.	REG.NO.	NAME	GRADE
1	KVAWSZO001	ANSHIDHA P	A
2	KVAWSZO002	ANSILA P	A
3	KVAWSZO003	FAHMIDA K	A
4	KVAWSZO004	FATHIMA MAHRUFA. M	A
5	KVAWSZO005	FATHIMA SHAHANA	A
6	KVAWSZO006	FATHIMA THAH SIN	A
7	KVAWSZO008	FEMINA T	A
8	KVAWSZO009	LASSIMA O P	A
9	KVAWSZO010	NARJAS N M	A
10	KVAWSZO011	RINSHA SHERIN	B
11	KVAWSZO012	SAFNA YOOSAF P	A
12	KVAWSZO013	SANIYA V	B
13	KVAWSZO014	SHAHANA SHERIN P T	B
14	KVAWSZO015	SUMAYYA K.B	B
15	KVAWSZO016	AMEEN NK	A
16	KVAWSZO017	ANJANA A	A
17	KVAWSZO018	ARUNDHATHI K G	A
18	KVAWSZO019	ARYA NANDANAN V A	A
19	KVAWSZO020	FATHIMA BATHOOL P K	A
20	KVAWSZO021	FIDHA	A
21	KVAWSZO022	HIBHA	A
22	KVAWSZO023	LUBNA C P	A
23	KVAWSZO024	ZA HARATH SULTHANA M	A
24	KVAWSZO025	AKSHAYA	B
25	KVAWSZO026	FAHEEMA	A
26	KVAWSZO027	FATHIMA RASHA M P	A
27	KVAWSZO028	FATHIMA RIDHA	A
28	KVAWSZO030	HANSHIDHA K P	A
29	KVAWSZO031	HARSHA K P	B
30	KVAWSZO032	HIMNA DAS K	B
31	KVAWSZO033	JAHANA SHERIN	A
32	KVAWSZO034	MEGHA K	A
33	KVAWSZO035	NAINA	A
34	KVAWSZO036	SAFA	B
35	KVAWSZO037	VIBINA	B
36	KVAWSZO038	ZULEKHA	A
37	KVAWSZO039	AMAL RAHMAN P T	C
38	KVAWSZO040	JUMA JASIL	B
39	KVAWSZO041	YADU GOVIND. G. S	B



SHAJID P P
ASSISTANT PROFESSOR
IN CHARGE OF PRINCIPAL
M.E.S. KEVEEYAM COLLEGE



KRISHNA PRABHA K.S
ASSISTANT PROFESSOR
HOD, Department of Zoology
MES Keveeyam College
Valancherry-676 552



MES KEVEEYAM COLLEGE VALANCHERRY

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Certificate

This is to certify that

KVM/CC/22-23/ 200/01

-----ANSHADA.P., B.Sc ZOOLOGY-----
has successfully completed the certificate course on "-----SUSTAINABLE Bee Keeping-----"
-----FOR BEGINNERS-----" conducted by the Department of -----ZOOLOGY-----, MES
Keveeyam College, Valancherry during the period 2022-23.

CO-ORDINATOR

[Signature]

HEAD OF DEPARTMENT

[Signature]

Dr. K.P. VINOD KUMAR
PRINCIPAL

[Signature]





MES KEVEEYAM COLLEGE VALANCHERRY

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Certificate

KVM/CC/22-23/200/01

This is to certify that

..... SABHANA SHEKUN.P.T , B.Sc Zoology
has successfully completed the certificate course on "SUSTAINABLE BECKEERINA FOR
BEGUNERS....." conducted by the Department of Zoology....., MES
Keveeyam College, Valancherry during the period 2022-23.

CO-ORDINATOR

HEAD OF DEPARTMENT

Dr. K.P. VINOD KUMAR
PRINCIPAL

