

BASELIUS COLLEGE

KOTTAYAM

SKILL DEVELOPMENT IN APPLIED ZOOLOGY

SUPPORTING DOCUMENTS

- 1. BROCHURE**
- 2. SYLLABUS**
- 3. STUDENTS LIST**
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- 5. ATTENDANCE SHEET**



DEPARTMENT OF ZOOLOGY

BASELIUS COLLEGE, KOTTAYAM



Is Conducting a...

SKILL DEVELOPMENT PROGRAMME IN APPLIED ZOOLOGY



Duration:-50 hrs (Oct-Dec 2019)

Course Includes:-Theory Sessions
Field Study
Hands' on Workshops

Head of the Department

Dr.Rejitha V

Principal

Dr.Biju Thomas

Course
Coodinator

Sany Mary Benjamin
Uma Surendran
Dr.Anit Mani Thomas

Skill Development programme in Applied Zoology

50hrs

Objectives:

1. To equip the students with self employment capabilities.
2. To provide scientific knowledge of profitable farming.
3. To make the students aware of cottage industries.

Module 1. APICULTURE

18 Hrs

Definition, Different species of honey bees, Organization of honey bee colony, Social life and adaptation of honey bees. Communication among honey bees. Bee keeping methods and equipments, Management and maintenance of an apiary, Growth period, honey flow period and dearth period Division of the colony, uniting two colonies, , replacing old queen with new queen, swarming management, monsoon management. Enemies of bees. Diseases of bees. Bee pasturage. Uses of honey bees, By-products of honey bees, Honey and wax composition. Testing the quality of honey. Extraction of wax, Uses of honey

and wax. Royal jelly, Propolis. Apitherapy, Agencies supporting apiculture.

Activity: Visit to an apiculture unit.

Field visit and report submission - 10 Hrs

Field visit and report submission on any two items are taken for internal evaluation.

MODULE: 2. VERMICULTURE

8 Hrs

Introduction, Ecological classification of earth worms. Species of earth worms used for vermiculture, Reproduction & life cycle, Role of earth worm in solid waste management, in agriculture, in medicine etc. Preparation of vermibed, Maintenance & monitoring, Preparation of vermicompost, Preparation of vermiwash.

Activity: Submission of a report after preparing a vermiculture unit or visiting a vermicomposting unit.

MODULE: 4. AQUACULTURE.

24 Hrs

Advantages and salient features of aquaculture, Types of Aquaculture, Biotic and abiotic features of water, Importance of algae in aquaculture, Common cultivable fishes of Kerala, Fish diseases, Composite fish culture, Integrated fish culture, Carp culture, Prawn culture Mussel culture Pearl culture. Processing & Preservation. 74 Aquarium management - Setting up of an aquarium, Biological filter & Aeration, Breeding of gold fish, gourami (*Osphronemus*), fighter and Guppy (live bearer). Nutrition and types of feed for aquarium fishes, Establishment of commercial ornamental fish culture unit. Fish Transportation - Live fish packing and transport Common diseases of aquarium fishes and their management. Aquaponics (a brief introduction only).

Activity – Setting up of an Aquarium Field visit – Visiting an Aquaculture farm

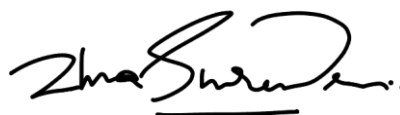
Department of Zoology

Skill Development Programme in Applied Zoology

nts list

Stude

SL no	Name	Department	
1	Akshay P A	Zoology Department	
2	Aashin Mani Rajan	Botany Department	
3	Sharukh Abbac	Zoology Department	
4	Hariprasad P S	Zoology Department	
5	Nidheesh P P	Maths Department	
6	Dilin Saji	Economics Department	
7	Abanc Thomas P	English Department	
8	Bibeha Mol C B	Zoology Department	
9	Vishnu Shaji	Physics Department	
10	Sarath Babu	Maths Department	
11	Jobin K S	English Department	
12	Vishnu Shibu	English Department	
13	Blessy Elsa Zachariah	Physics Department	
14	Lakshmi K B	Physics Department	
15	Ajith Thomas K	Zoology Department	
16	Kavya P S	Zoology Department	
17	Meenu Parthan	Zoology Department	
18	Reshma Karthik	Zoology Department	
19	Gayathri J	Zoology Department	
20	Ansu P Reji	Zoology Department	
21	Anagha S	Maths Department	
22	Rameesha Rasheed	Zoology Department	
23	Sona Mol Babu	Zoology Department	
24	Hephzibab s	Zoology Department	
25	Akhil Devan	Zoology Department	
26	Sona Philip	Zoology Department	
27	Devika M Nair	Zoology Department	
28	Amrutha Lekshmi	Zoology Department	
29	Sheba Sosa Shaji	Zoology Department	
30	Anjana Elizabeth Koshy	Zoology Department	
31	Nehamol P Raj	Zoology Department	



Uma Surendran



BASELIUS COLLEGE, KOTTAYAM

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This is to certify that
Akshay P A
Department of Zoology



has successfully completed the
certificate course on '**Skill
Development Programme in Applied
Zoology**' organized by the Department
of Zoology, Baselius College, Kottayam
during the academic year 2019-20



Dr. Rejitha V
Head of the Department

Dr. Shaju M J
IQAC Convener



Dr. Biju Thomas
Principal



BASELIUS COLLEGE, KOTTAYAM

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This is to certify that

Aashin Mani Rajan

Department of Botany



has successfully completed the certificate course on '**Skill Development Programme in Applied Zoology**' organized by the Department of Zoology, Baselius College, Kottayam during the academic year 2019-20



Dr. Rejitha V
Head of the Department

Dr. Shaju M J
IQAC Convener



Dr. Biju Thomas
Principal

This is to certify that

Sharukh Abbac
Department of Zoology



has successfully completed the certificate course on '**Skill Development Programme in Applied Zoology**' organized by the Department of Zoology, Baselius College, Kottayam during the academic year 2019-20



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Dr. Rejitha V
Head of the Department

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Dr. Shaju M J
IQAC Convener



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Dr. Biju Thomas
Principal

This is to certify that

Hariprasad. P. S
Department of Zoology



has successfully completed the certificate course on 'Skill Development Programme in Applied Zoology' organized by the Department of Zoology, Baselius College, Kottayam during the academic year 2019-20



Handwritten signature of Dr. Rejitha V in black ink.

Dr. Rejitha V
Head of the Department

Handwritten signature of Dr. Shaju M J in black ink.

Dr. Shaju M J
IQAC Convener



Handwritten signature of Dr. Biju Thomas in green ink.

Dr. Biju Thomas
Principal

This is to certify that

Nidheesh P. P
Department of Maths



has successfully completed the certificate course on '**Skill Development Programme in Applied Zoology**' organized by the Department of Zoology, Baselius College, Kottayam during the academic year 2019-20



A handwritten signature in black ink, appearing to read 'Rejitha V'.

Dr. Rejitha V
Head of the Department

A handwritten signature in black ink, appearing to read 'Shaju M J'.

Dr. Shaju M J
IQAC Convener



A handwritten signature in green ink, appearing to read 'Biju Thomas'.

Dr. Biju Thomas
Principal

This is to certify that

Dilin Saji
Department of Economics



has successfully completed the certificate course on 'Skill Development Programme in Applied Zoology' organized by the Department of Zoology, Baselius College, Kottayam during the academic year 2019-20



Dr. Rejitha V
Head of the Department

Dr. Shaju M J
IQAC Convener



Dr. Biju Thomas
Principal

BASELIUS COLLEGE, KOTTAYAM

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This is to certify that
Abanc Thomas P
Department of English



has successfully completed the
certificate course on '**Skill
Development Programme in Applied
Zoology**' organized by the Department
of Zoology, Baselius College, Kottayam
during the academic year 2019-20



Handwritten signature of Dr. Rejitha V.

Dr. Rejitha V
Head of the Department

Handwritten signature of Dr. Shaju M J.

Dr. Shaju M J
IQAC Convener



Handwritten signature of Dr. Biju Thomas.

Dr. Biju Thomas
Principal

This is to certify that

Bibeha Mol C. B
Department of Zoology



has successfully completed the certificate course on 'Skill Development Programme in Applied Zoology' organized by the Department of Zoology, Baselius College, Kottayam during the academic year 2019-20



Handwritten signature of Dr. Rejitha V in black ink.

Dr. Rejitha V
Head of the Department

Handwritten signature of Dr. Shaju M J in black ink.

Dr. Shaju M J
IQAC Convener



Handwritten signature of Dr. Biju Thomas in green ink.

Dr. Biju Thomas
Principal

This is to certify that

Vishnu Shaji
Department of Physics



has successfully completed the certificate course on 'Skill Development Programme in Applied Zoology' organized by the Department of Zoology, Baselius College, Kottayam during the academic year 2019-20



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Dr. Rejitha V
Head of the Department

A handwritten signature in black ink that reads "Shaju M J".

Dr. Shaju M J
IQAC Convener



A handwritten signature in green ink.

Dr. Biju Thomas
Principal

This is to certify that

Sarath Babu
Department of Maths



has successfully completed the certificate course on '**Skill Development Programme in Applied Zoology**' organized by the Department of Zoology, Baselius College, Kottayam during the academic year 2019-20



Dr. Rejitha V
Head of the Department

Dr. Shaju M J
IQAC Convener



Dr. Biju Thomas
Principal

This is to certify that

Jobin K. S
Department of English



has successfully completed the certificate course on '**Skill Development Programme in Applied Zoology**' organized by the Department of Zoology, Baselius College, Kottayam during the academic year 2019-20



Dr. Rejitha V
Head of the Department

Dr. Shaju M J
IQAC Convener



Dr. Biju Thomas
Principal

This is to certify that

Vishnu Shibu
Department of English



has successfully completed the certificate course on '**Skill Development Programme in Applied Zoology**' organized by the Department of Zoology, Baselius College, Kottayam during the academic year 2019-20



Dr. Rejitha V
Head of the Department

Dr. Shaju M J
IQAC Convener



Dr. Biju Thomas
Principal

This is to certify that
Blessy Elsa Zachariah
Department of Physics



has successfully completed the
certificate course on '**Skill
Development Programme in Applied
Zoology**' organized by the Department
of Zoology, Baselius College, Kottayam
during the academic year 2019-20



A handwritten signature in black ink, appearing to read 'Rejitha V'.

Dr. Rejitha V
Head of the Department

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Dr. Shaju M J
IQAC Convener



A handwritten signature in green ink, appearing to read 'Biju Thomas'.

Dr. Biju Thomas
Principal

This is to certify that
Lakshmi K.B.
Department of Physics



has successfully completed the
certificate course on '**Skill
Development Programme in Applied
Zoology**' organized by the Department
of Zoology, Baselius College, Kottayam
during the academic year 2019-20



A handwritten signature in black ink, appearing to read 'Rejitha V'.

Dr. Rejitha V
Head of the Department

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Dr. Shaju M J
IQAC Convener



A handwritten signature in green ink, appearing to read 'Biju Thomas'.

Dr. Biju Thomas
Principal



BASELIUS COLLEGE, KOTTAYAM

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This is to certify that

Ajith Thomas V **Department of Zoology**



has successfully completed the certificate course on '**Skill Development Programme in Applied Zoology**' organized by the Department of Zoology, Baselius College, Kottayam during the academic year 2019-20



Dr. Rejitha V
Head of the Department

Dr. Shaju M J
IQAC Convener



Dr. Biju Thomas
Principal



This is to certify that

Kavya P.S.

Department of Zoology

has successfully completed the
certificate course on 'Skill

Development Programme in Applied

Zoology' organized by the Department
of Zoology, Baselius College, Kottayam
during the academic year 2019-20



A handwritten signature in black ink, appearing to read 'Dr. Rejitha V.', written over a horizontal red line.

Dr. Rejitha V
Head of the Department

A handwritten signature in black ink, appearing to read 'Shaju M J.', written over a horizontal red line.

Dr. Shaju M J
IQAC Convener



A handwritten signature in green ink, appearing to read 'Dr. Biju Thomas', written over a horizontal red line.

Dr. Biju Thomas
Principal



BASELIUS COLLEGE, KOTTAYAM

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This is to certify that
Meenu Parthan
Department of Zoology



has successfully completed the
certificate course on '**Skill
Development Programme in Applied
Zoology**' organized by the Department
of Zoology, Baselius College, Kottayam
during the academic year 2019-20



Dr. Rejitha V
Head of the Department

Dr. Shaju M J
IQAC Convener



Dr. Biju Thomas
Principal



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This is to certify that

Reshma Karthik

Department of Zoology



has successfully completed the certificate course on '**Skill Development Programme in Applied Zoology**' organized by the Department of Zoology, Baselius College, Kottayam during the academic year 2019-20



Dr. Rejitha V
Head of the Department

Dr. Shaju M J
IQAC Convener



Dr. Biju Thomas
Principal

This is to certify that
Gayathri J
Department of Zoology



has successfully completed the
certificate course on '**Skill
Development Programme in Applied
Zoology**' organized by the Department
of Zoology, Baselius College, Kottayam
during the academic year 2019-20



Handwritten signature of Dr. Rejitha V in black ink.

Dr. Rejitha V
Head of the Department

Handwritten signature of Dr. Shaju M J in black ink.

Dr. Shaju M J
IQAC Convener



Handwritten signature of Dr. Biju Thomas in green ink.

Dr. Biju Thomas
Principal



BASELIUS COLLEGE, KOTTAYAM

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This is to certify that
Ansu P Reji
Department of Zoology



has successfully completed the
certificate course on '**Skill
Development Programme in Applied
Zoology**' organized by the Department
of Zoology, Baselius College, Kottayam
during the academic year 2019-20



Dr. Rejitha V
Head of the Department

Dr. Shaju M J
IQAC Convener



Dr. Biju Thomas
Principal

This is to certify that
Anagha. S
Department Of Mathematics



has successfully completed the
certificate course on '**Skill
Development Programme in Applied
Zoology**' organized by the Department
of Zoology, Baselius College, Kottayam
during the academic year 2019-20



A handwritten signature in black ink, appearing to read 'Dr. Rejitha V.', written over a horizontal line.

Dr. Rejitha V
Head of the Department

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Dr. Shaju M J
IQAC Convener



A handwritten signature in green ink, appearing to read 'Dr. Biju Thomas', written over a horizontal line.

Dr. Biju Thomas
Principal

BASELIUS COLLEGE, KOTTAYAM

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This is to certify that

Rameesha Rasheed
Department of Zoology

has successfully completed the
certificate course on '**Skill
Development Programme in Applied
Zoology**' organized by the Department
of Zoology, Baselius College, Kottayam
during the academic year 2019-20



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Dr. Rejitha V
Head of the Department

A handwritten signature in black ink.

Dr. Shaju M J
IQAC Convener



A handwritten signature in green ink.

Dr. Biju Thomas
Principal

This is to certify that

Sona Mol Babu
Department of Zoology



has successfully completed the certificate course on '**Skill Development Programme in Applied Zoology**' organized by the Department of Zoology, Baselius College, Kottayam during the academic year 2019-20



A handwritten signature in black ink, appearing to read 'Rejitha V'.

Dr. Rejitha V
Head of the Department

A handwritten signature in black ink, appearing to read 'Shaju M J'.

Dr. Shaju M J
IQAC Convener



A handwritten signature in green ink, appearing to read 'Biju Thomas'.

Dr. Biju Thomas
Principal

This is to certify that
Hephzibab. S
Department Of Zoology



has successfully completed the
certificate course on '**Skill
Development Programme in Applied
Zoology**' organized by the Department
of Zoology, Baselius College, Kottayam
during the academic year 2019-20



A handwritten signature in black ink, appearing to read 'Rejitha V'.

Dr. Rejitha V
Head of the Department

A handwritten signature in black ink, appearing to read 'Shaju M J'.

Dr. Shaju M J
IQAC Convener



A handwritten signature in green ink, appearing to read 'Biju Thomas'.

Dr. Biju Thomas
Principal



BASELIUS COLLEGE, KOTTAYAM

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This is to certify that
Akhil Devan
Department of Zoology



has successfully completed the
certificate course on '**Skill
Development Programme in Applied
Zoology**' organized by the Department
of Zoology, Baselius College, Kottayam
during the academic year 2019-20



Dr. Rejitha V
Head of the Department

Dr. Shaju M J
IQAC Convener



Dr. Biju Thomas
Principal

BASELIUS COLLEGE, KOTTAYAM

Affiliated to Mahatma Gandhi University, NAAC accredited - A Grade

This is to certify that
Sona Philip
Department of Zoology



has successfully completed the
certificate course on '**Skill
Development Programme in Applied
Zoology**' organized by the Department
of Zoology, Baselius College, Kottayam
during the academic year 2019-20

A handwritten signature in black ink, appearing to read 'Rejitha V'.

Dr. Rejitha V
Head of the Department

A handwritten signature in black ink, appearing to read 'Shaju M J'.

Dr. Shaju M J
IQAC Convener



A handwritten signature in green ink, appearing to read 'Biju Thomas'.

Dr. Biju Thomas
Principal

BASELIUS COLLEGE, KOTTAYAM

Affiliated to Mahatma Gandhi University, NAAC accredited 'A' Grade

This is to certify that

Devika M. Nair
Department of Zoology



has successfully completed the certificate course on 'Skill Development Programme in Applied Zoology' organized by the Department of Zoology, Baselius College, Kottayam during the academic year 2019-20



A handwritten signature in black ink, appearing to read 'Rejitha V'.

Dr. Rejitha V
Head of the Department

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Dr. Shaju M J
IQAC Convener



A handwritten signature in green ink, appearing to read 'Biju Thomas'.

Dr. Biju Thomas
Principal

BASELIUS COLLEGE, KOTTAYAM

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This is to certify that
Amrutha Lekshmi
Department of Zoology



has successfully completed the
certificate course on 'Skill
Development Programme in Applied
Zoology' organized by the Department
of Zoology, Baselius College, Kollayam
during the academic year 2019-20



A handwritten signature in black ink, appearing to read 'Rejitha V.', written over a horizontal line.

Dr. Rejitha V
Head of the Department

A handwritten signature in black ink, appearing to read 'Shaju M J.', written over a horizontal line.

Dr. Shaju M J
IQAC Convener



A handwritten signature in green ink, appearing to read 'Biju Thomas', written over a horizontal line.

Dr. Biju Thomas
Principal

BASELIUS COLLEGE, KOTTAYAM

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This is to certify that

Sheba Sosa Shaji
Department of Zoology

has successfully completed the
certificate course on 'Skill
Development Programme in Applied
Zoology' organized by the Department
of Zoology, Baselius College, Kottayam
during the academic year 2019-20



Dr. Rejitha V
Head of the Department

Dr. Shaju M J
IQAC Convener



Dr. Biju Thomas
Principal

This is to certify that
Anjana Elizabeth Koshy
Department of Zoology



has successfully completed the
certificate course on '**Skill
Development Programme in Applied
Zoology**' organized by the Department
of Zoology, Baselius College, Kollayam
during the academic year 2019-20



A handwritten signature in black ink, appearing to read 'Rejitha V'.

Dr. Rejitha V
Head of the Department

A handwritten signature in black ink, appearing to read 'Shaju M J'.

Dr. Shaju M J
IQAC Convener



A handwritten signature in green ink, appearing to read 'Biju Thomas'.

Dr. Biju Thomas
Principal

BASELIUS COLLEGE, KOTTAYAM

Affiliated to Mahatma Gandhi University, N.C.M.I accredited @ A Grade

This is to certify that
Nehamol P. Raj
Department of Zoology



has successfully completed the
certificate course on 'Skill
Development Programme in Applied
Zoology' organized by the Department
of Zoology, Baselius College, Kottayam
during the academic year 2019-20



Handwritten signature of Dr. Rejitha V in black ink.

Dr. Rejitha V
Head of the Department

Handwritten signature of Dr. Shaju M J in black ink.

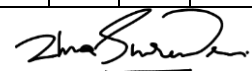
Dr. Shaju M J
IQAC Convener



Handwritten signature of Dr. Biju Thomas in green ink.

Dr. Biju Thomas
Principal

4	Hariprasad P S	x	a	x	x	a	x	x	x	x	x	x	x
5	Nidheesh P P	x	x	x	x	x	x	x	x	x	x	x	x
6	Dilin Saji	x	x	x	x	x	x	x	x	a	x	x	x
7	Abanc Thomas P	x	x	x	x	x	x	x	x	x	x	x	x
8	Bibeha Mol C B	x	x	a	x	x	x	x	x	x	x	x	x
9	Vishnu Shaji	x	x	x	x	x	x	x	x	x	x	x	x
10	Sarath Babu	x	x	x	x	x	x	x	x	x	x	a	x
11	Jobin K S	x	x	x	a	x	x	x	x	x	x	x	x
12	Vishnu Shibu	x	x	x	x	x	x	x	x	x	x	x	x
13	Blessy Elsa Zachariah	x	x	x	x	x	x	x	x	x	x	x	x
14	Lakshmi K B	x	x	x	x	a	x	x	x	x	x	x	x
15	Ajith Thomas K	x	x	x	x	x	x	a	x	x	x	x	x
16	Kavya P S	x	x	x	x	x	x	x	x	x	x	x	x
17	Meenu Parthan	x	x	x	x	x	x	x	x	x	x	x	x
18	Reshma Karthik	x	x	x	x	x	x	a	x	x	x	x	x
19	Gayathri J	x	a	x	x	x	x	x	x	x	x	x	x
20	Ansu P Reji	x	x	x	x	a	x	x	x	x	x	x	x
21	Anagha S	x	x	x	x	x	x	x	x	x	x	x	x
22	Rameesha Rasheed	x	x	x	x	x	x	x	x	x	x	a	x
23	Sona Mol Babu	x	a	x	x	x	x	x	x	x	x	x	x
24	Hephzibab s	x	x	x	x	x	x	x	x	x	x	x	x
25	Akhil Devan	x	x	x	x	x	x	x	x	a	x	x	x
26	Sona Philip	x	x	x	x	x	x	x	x	x	x	x	x
27	Devika M Nair	x	x	x	x	x	x	x	x	x	x	x	x
28	Amrutha Lekshmi	x	x	x	x	x	x	x	x	x	x	x	x
29	Sheba Sosa Shaji	x	x	x	x	x	a	x	x	x	x	x	x
30	Anjana Elizabeth Koshy	a	x	x	x	x	x	x	x	x	x	x	x
31	Nehamol P Raj	x	x	x	x	x	x	x	a	x	x	x	x



Uma Surendran

Department Skill t of Zoology
Development Program me in Applied Zoology-(2019-
2020)

Students attendance- Dec 2019

SL no	Name	2/12	7/12	10/12	12/12	14/12	17/12
1	Akshay P A	x	x	x	x	x	x
2	Aashin Mani Rajan	x	x	x	x	x	x
3	Sharukh Abbac	x	x	x	x	x	x
4	Hariprasad P S	x	a	x	x	a	x
5	Nidheesh P P	x	x	x	x	x	x
6	Dilin Saji	x	x	x	x	x	x

7	Abanc Thomas P	x	x	x	x	x	x
8	Bibeha Mol C B	x	x	a	x	x	x
9	Vishnu Shaji	x	x	x	x	x	x
10	Sarath Babu	x	x	x	x	x	x
11	Jobin K S	x	x	x	a	x	x
12	Vishnu Shibu	x	x	x	x	x	x
13	Blessy Elsa Zachariah	x	x	x	x	x	x
14	Lakshmi K B	x	x	x	x	a	x
15	Ajith Thomas K	x	x	x	x	x	x
16	Kavya P S	x	x	x	x	x	x
17	Meenu Parthan	x	x	x	x	x	x
18	Reshma Karthik	x	x	x	x	x	x
19	Gayathri J	x	a	x	x	x	x
20	Ansu P Reji	x	x	x	x	a	x
21	Anagha S	x	x	x	x	x	x
22	Rameesha Rasheed	x	x	x	x	x	x
23	Sona Mol Babu	x	a	x	x	x	x
24	Hephzibab s	x	x	x	x	x	x
25	Akhil Devan	x	x	x	x	x	x
26	Sona Philip	x	x	x	a	x	x
27	Devika M Nair	x	x	x	x	x	x
28	Amrutha Lekshmi	x	x	x	x	x	x
29	Sheba Sosa Shaji	x	x	x	x	x	a
30	Anjana Elizabeth Koshy	a	x	x	x	x	x
31	Nehamol P Raj	x	x	x	x	x	x



Uma
Surendran