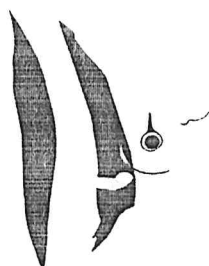


Applications are Invited for
**CERTIFICATE COURSE IN AQUARIUM
FABRICATION AND MANAGEMENT**
(COURSE CODE: CCAFM)

2019 Admission



Organised by Department of Zoology, S N College,
Kollam

Duration: 6 Months

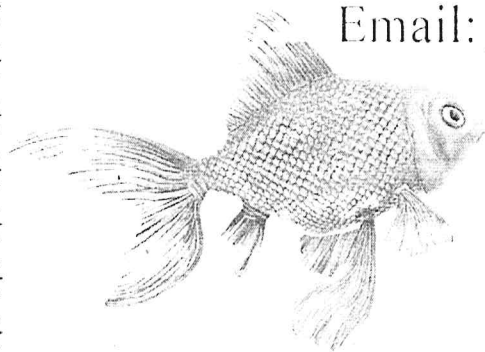
Total Learning Hours: 30

Contact Course Coordinator for more information:

Dr S. Jisha, Assistant Professor, Department of
Zoology, S. N. College, Kollam

Phone Number: 9895066054

Email: jishasooriya@gmail.com



Title of the course: Certificate Course in Aquarium Fabrication and Management

Course Code: ZO 01 CCAFM

Affiliated Department: Department of Zoology, Sree Narayana College, Kollam

Objectives of the course

- To learn the scientific method of fabricating an aquarium
- To learn the common troubleshooting mechanisms in aquarium management


Relevance

An aquarium is a vivarium of any size having at least one transparent side in which aquatic plants or animals are kept and displayed. Fish keepers use aquaria to keep fish, invertebrates, amphibians, aquatic reptiles, such as turtles, and aquatic plants. During 1950s all fish kept in captivity were fed with live food. By the invention of flake foods, the hobby was revolutionised. From there on, the hobby flourished. Fuelled by easier and shorter transportation measures, more and more breeders and the enthusiasts helped the hobby to become more popular. The inventions and the understanding of water chemistry and aquarium flora and fauna within the past 30 years has enabled just about anyone to enjoy fish-keeping easiness. The ornamental fish industry is peaking annually and at the same time demand for aquarium is increasing. So in this context, there is ample scope for a certificate course which adds more fuel in this area.

Outcome of the Course

The learners will be equipped with the skill of fabricating an aquarium independently. They can start a small-scale industry even at home. Students and women can easily involve in the aquarium fabrication techniques and can be opted as a good part-time job. The finished aquarium can be supplied at pet shops or can be directly on market. Reducing the unemployment rate and financial freedom are the ultimate aims.




Dr. SULEKHA B.T
Associate Professor & Head
P.G. & Research Dept. of Zoology
S.N. College, Kollam-691001

SYLLABUS

2020 Admission

Certificate Course in Aquarium Fabrication and Management

Course Code:ZO 01 CCAFM

Page | 1

Affiliated Department: Department of Zoology, Sree Narayana College, Kollam

Course Period: 6 Months

Total Hours: 30

Mode: Online and Asynchronous through google classroom

Course fee: In the context of Covid 19 pandemic & Lockdown, the course fee is waved off.

Aim of the course

To make the student aware of the vast potentials and vocational opportunities involved in aquarium fabrication and management

Objectives of the course

- To learn the scientific method of fabricating an aquarium
- To learn the common troubleshooting mechanisms in aquarium management

Relevance

An aquarium is a vivarium of any size having at least one transparent side in which aquatic plants or animals are kept and displayed. Fish keepers use aquaria to keep fish, invertebrates, amphibians, aquatic reptiles, such as turtles, and aquatic plants. During 1950s all fish kept in captivity were fed with live food. By the invention of flake foods, the hobby was revolutionised. From there on, the hobby flourished. Fuelled by easier and shorter transportation measures, more and more breeders and the enthusiasts helped the hobby to become more popular. The inventions and the understanding of water chemistry and aquarium flora and fauna within the past 30 years has enabled just about anyone to enjoy fish-keeping easiness. The ornamental fish industry is peaking annually and at the same time demand for aquarium is increasing. So in this context, there is ample scope for a certificate course which adds more fuel in this area.

Outcome

The learners will be equipped with the skill of fabricating an aquarium independently. They can start a small-scale industry even at home. Students and women can easily involve in the aquarium fabrication techniques and can be opted as a good part-time job. The finished aquarium can be supplied at pet shops or can be directly on market. Reducing the unemployment rate and financial freedom are the ultimate aims.

Module I (5 Hours)

Importance and history of aquarium fish keeping.

Design and construction of aquaria: aquarium fabrication- shape, size, volume, type of glass tank, cutting of glass, preparation of glass tank, strengthening and supporting of tank, fitting of tanks into room settings. Page | 2

Module II (5 Hours)

Aquarium floor setting type and size of pebbles, gravels, granites used for bed setting and its advantages, Filters, aquarium accessories, aquarium plants, freshwater and marine ornamental fishes.

Module III (5 hrs)

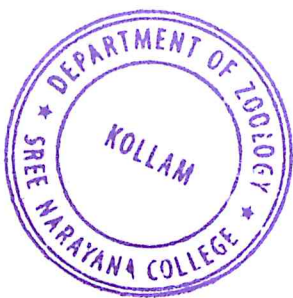
Water quality management in aquarium systems - sources of water, containers, storage, temperature, pH dissolve carbon dioxide, ammonia, hardness, turbidity and ozone in aquarium.

Module IV(5 hours)

Aquarium maintenance- Setting up of a freshwater aquarium and a marine aquarium and its maintenance, Food and feeding, Control of algal growth, snails and other predators, Common diseases, their symptoms and management.

Field study (10 hours)

Students have to visit ornamental fish hatchery/ pet shop and submit a report along with supporting evidences like photographs.



Thiruvalluvar
Principal
Sree Narayana College
Kollam



BOARD OF STUDIES MEMBERS (2019-2020)

DEPARTMENT OF ZOOLOGY

SREE NARAYANA COLLEGE, KOLLAM

Certificate Course in Aquarium Fabrication and Management (Course Code: CCAFM)

2021 Admission

Course Co-ordinator: Dr S. Jisha, Assistant Professor, Department of Zoology, S. N. College, Kollam

BOARD OF STUDIES FOR CERTIFICATE COURSE IN AQUARIUM FABRICATION AND MANAGEMENT

Chairperson: Dr S. Jisha, Assistant Professor, Department of Zoology, S. N. College, Kollam

Members:

Dr A. Bijukumar, Professor, Department of Aquatic Biology & Fisheries, University of Kerala

Dr Benno Pereira, Assistant Professor, Department of Zoology, University of Kerala

Dr Mithun Sukumaran, Department of Aquatic Biology & Fisheries, University of Kerala

Dr Deepak J Pazhayamadom, Research Officer, Paspaley Pearling Company, Australia

Dr B. T. Sulekha, Assistant Professor, Department of Zoology, S. N. College, Kollam

Dr B. Hari, Assistant Professor, Department of Zoology, S. N. College, Kollam

Dr S. Sheeba, Assistant Professor, Department of Zoology, S. N. College, Kollam


Dr Balamurali R. S., Assistant Professor, Department of Zoology, M. G. College, Thiruvananthapuram

Dr Divya T. Dharan, Assistant Professor, Department of Zoology, S. N. College, Kollam

Dr Sheeja P. U., Assistant Professor, Department of Zoology, S. N. College, Kollam

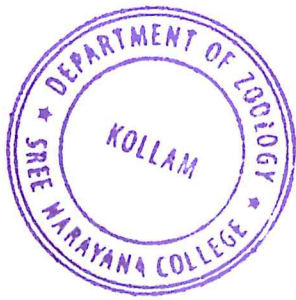
Dr Divya P. S., Assistant Professor, Department of Zoology, S. N. College, Kollam





Dr. SULEKHA B.T.
Associate Professor & Head
P.G. & Research Dept. of Zoology
S.N. College, Kollam-691001

LIST OF TEACHERS HANDLED THE CLASSES- 2019-20

1. Dr S Jisha
2. Dr B Hari
3. Dr A Bijukumar
4. Dr Deepak J Pazhayamadam
5. Dr Benno Perriera
6. Dr Mithun Sukumaran




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Sree Narayana College Kollam

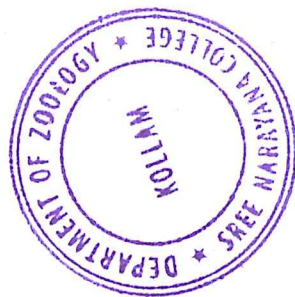
Certificate course 2019-20

Name of Dept : ZOOLOGY

Name of Course: AQUARIUM FABRICATION & MAINTENANCE

Sl No	Enrolment No:	Name of the student	Completed or not
1	CCAFM2019-001	ABHINAV S D	YES
2	CCAFM2019-002	ADHARSH R	YES
3	CCAFM2019-003	ASHNA M	YES
4	CCAFM2019-004	SHAHIN SHAJAHAN	YES
5	CCAFM2019-005	ANANDHU V NATH	YES
6	CCAFM2019-006	MEKHA S	YES
7	CCAFM2019-007	PONNI J MOHAN	YES
8	CCAFM2019-008	ATHIRA J	YES
9	CCAFM2019-009	AMALA V S	YES
10	CCAFM2019-010	ANUPRIYA S	YES
11	CCAFM2019-011	VIJAYAKUMAR M	YES
12	CCAFM2019-012	KANNI J MOHAN	YES
13	CCAFM2019-013	PADMA ASOK	YES
14	CCAFM2019-014	SUBHALAKSHMI S	YES
15	CCAFM2019-015	ANANYA S	YES
16	CCAFM2019-016	ASWATHY BABU	YES
17	CCAFM2019-017	SRUTHY J	YES
18	CCAFM2019-018	ANJANA KARTHA A J	YES
19	CCAFM2019-019	VRINDA T V	YES
20	CCAFM2019-020	ARCHANA SATHEESH D	YES
21	CCAFM2019-021	SOURAV SURESH	YES
22	CCAFM2019-022	SANDRA SURESH	YES
23	CCAFM2019-023	ARATHY UNNI	YES
24	CCAFM2019-024	SREETHU S VAS	YES
25	CCAFM2019-025	RAKESH R B	YES

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S.N.College, Kollam-691001



Sree Narayana College Kollam

Certificate courses 2019-2020

Name of Dept : ZOOLOGY

Name of Course: AQUARIUM FABRICATION & MAINTENANCE

Sl. No.	Enrolment No:	Name of the student	Sl. No.
1	CCAFM2019-001	ABHINAV S D	
2	CCAFM2019-002	ADHARSH R	
3	CCAFM2019-003	ASHNA M	
4	CCAFM2019-004	SHAHIN SHAJAHAN	
5	CCAFM2019-005	ANANDHU V NATH	
6	CCAFM2019-006	MEKHA S	
7	CCAFM2019-007	PONNI J MOHAN	
8	CCAFM2019-008	ATHIRA J	
9	CCAFM2019-009	AMALA V S	
10	CCAFM2019-010	ANUPRIYA S	
11	CCAFM2019-011	VIJAYAKUMAR M	
12	CCAFM2019-012	KANNI J MOHAN	
13	CCAFM2019-013	PADMA ASOK	
14	CCAFM2019-014	SUBHALAKSHMI S	
15	CCAFM2019-015	ANANYA S	
16	CCAFM2019-016	ASWATHY BABU	
17	CCAFM2019-017	SRUTHY J	
18	CCAFM2019-018	ANJANA KARTHA A J	
19	CCAFM2019-019	VRINDA T V	
20	CCAFM2019-020	ARCHANA SATHEESH D	

[Signature]
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 Associate Professor & Head
 P.G. & Research Dept. of Zoology
 S.N. College, Kollam-691001

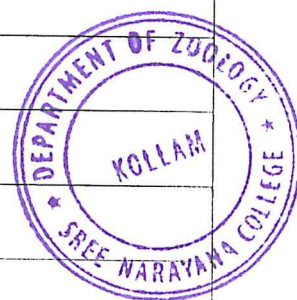


21	CCAFM2019-021	SOURAV SURESH
22	CCAFM2019-022	SANDRA SURESH
23	CCAFM2019-023	ARATHY UNNI
24	CCAFM2019-024	SREETHU S VAS
25	CCAFM2019-025	RAKESH R B

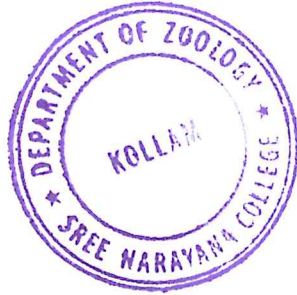



S. Suresh

NOMINAL ROLL 2019-20		
Sl. No.	Name	Remarks
1	Abhinav S. D.	
2	Adharsh R.	
3	Ashna M.	
4	Shahin Shajahan	
5	Anandhu V. Nadh	
6	Mekha S.	
7	Ponni J. Mohan	
8	Athira J.	
9	Amala V. S.	
10	Anupriya S.	
11	Vijayakumar M.	
12	Kanni J. Mohan	
13	Padma Asok	
14	Subhalakshmi S.	
15	Ananya S.	
16	Aswathy Babu	
17	Sruthy J.	
18	Anjana Kartha A.	
19	Vrinda T. V.	
20	Archana Satheesh D.	
21	Sourav Suresh	
22	Sandra Suresh	
23	Arathy Unni	
24	Sreethu S. Vas	



25	Sooraj B.	
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Dr. SULEKHA B.T
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P.G. & Research Dept. of Zoology
S.N. College, Kollam-691001

MUSTER ROLL

Name of Establishment

For The Period Ending

Place:

SERIAL No.	NAME	FATHER'S/HUSBAND'S NAME	SEX	NATURE OF WORK	DATE OF ENTRY INTO SERVICE
1	Abhinav S.D				Maharaj
2	Adharsch.R				Adams
3	Ashna.M				Shree
4	Shahin Shajahan				for Shajahan
005	Anandhu.V.Vadhi				Anandhu
6	Melba.S				H.K. King
7	Ponni. J. Mohan				Ponni
8	Adhira. J				Adhira
9	Annala V.S				Annala
10	Anupriya. S				Anupriya
11	Vijaya Kumar - M				Vijaya Kumar
12	Kanthi. J. Mohan				Kanthi
13	Radana Asok				Radana
14	Kubhalakshmi.S				Kubhalakshmi
15	Ananya.S				Ananya
16	Kwathya Babu				Kwathya
17	Sandhya. J				Sandhya
18	Anjama Karanth. A.J				Anjama
19	Valinda F.V				Valinda
20	Archana Sathesh D				Archana
21	Souren Suresh				Souren
22	Sandra Suresh				Sandra
23	Aradhya Unni				Aradhya
24	Sreedha. S. Var.				Sreedha
25	Rakesh.R.B				Rakesh
26	A				A

DR. SULEKHA B.
Associate Professor

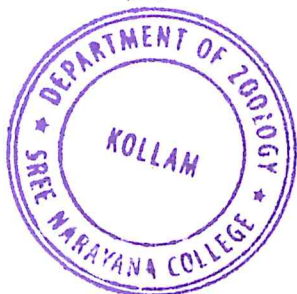


Dr. SULEKHA B.T.
Associate Professor & Head
of Research Dept. of Zoology
K. J. Somaiya Institute of
Postgraduate Studies
V. N. College, Kofurim 691001

List of Students Passed the Course- 2019-20		
Sl.No	Name	Remarks / Marks
1	Abhinav S D	81%
2	Adharsh R.	83%
3	Ashna M.	97%
4	Shahin Shajahan	98%
5	Anandhu V. Nadh	97%
6	Mekha S.	96%
7	Ponni J. Mohan	92%
8	Athira J.	89%
9	Amala V. S.	88%
10	Anupriya S.	96%
11	Vijayakumar M.	92%
12	Kanni J. Mohan	95%
13	Padma Asok	95%
14	Subhalakshmi S.	82%
15	Ananya S.	81%
16	Aswathy Babu	88%
17	Sruthy J.	92%
18	Anjana Kartha A.	92%
19	Vrinda T. V.	87%
20	Archana Satheesh D.	82%
21	Sourav Suresh	98%
22	Sandra Suresh	96%
23	Arathy Unni	95%
24	Sreethu S. Vas	92%

25. Rakesh R.B

91%



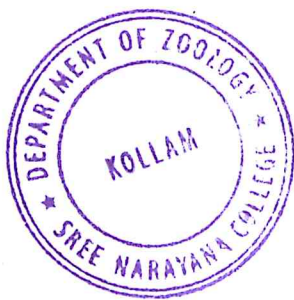
Sulekha B.T
 Dr. SULEKHA B.T
 Associate Professor & Head
 P.G. & Research Dept. of Zoology
 S.N. College, Kollam-691001

**CERTIFICATE COURSE: AQUARIUM FABRICATION & MAINTENANCE
(ZO-01-CCAFM)**

REPORT

(2019-2020)

- Applications were invited for the new course on 25/11/2019.
- 29 candidates applied for the course
- 25 of them were selected
- Selection list was published on 6/12/2019
- Classes were conducted in synchronised mode. Online mode was through google meet and google classroom. Classes were started on 15/12/2019.
- Exams were conducted online on 16/5/2020.
- Results were published on 25/5/2020.
- Certificates were distributed on 6/6/2020
- 100% of students passed the exam



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Principal
Sree Narayana College
Kollam

