

Andhra Christian College, Guntur

Department of Zoology

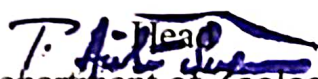
Add On Certificate Course on

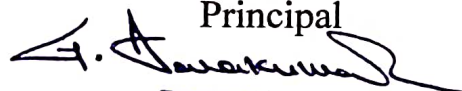
Aquarium Fish Keeping and Maintenance

NOTICE

Date: 10-08-2018

The Department of Zoology is conducting a 30 hour Certificate Course on "Aquarium Fish Keeping and Maintenance" for B.Sc students from Tuesday the 14-08-2018. All the students who are willing to join the certificate course are directed to give their names to the Head, Dept. of Zoology on or before Wednesday the 13-08-2018. The course will commence from 14-08-2018.


Department of Zoology


Principal
PRINCIPAL
ANDHRA CHRISTIAN COLLEGE
GUNTUR

Copy to:

1. The Coordinator, IQACS
2. The Office Manager

Andhra Christian College, Suntur

DEPARTMENT OF ZOOLOGY

TITLE OF THE PAPER: **AQUARIUM FISH KEEPING AND MAINTENANCE**

NO OF HOURS: 30

Objectives

1. To understand the industry trends and opportunities.
2. To impart the skill of fabricating an aquarium.
3. To understand health aspects of aquarium fish.
4. To understand the nutritional requirements of fish.
5. To gain knowledge of various water parameters and their control

Course Outcomes

By the end of the course students will be able to

CO1	Achieve competence to identify the fish of ornamental importance
CO2	Plan for aquarium making as a small scale industry
CO3	Exhibit the knowledge to design and fabricate an aquarium
CO4	Develop aquarium fish keeping as a hobby and as a source of livelihood
CO5	Diagnose and treat common diseases of aquarium fishes.

UNIT –I (6 HOURS)

- 1.1. The potential scope of aquarium fish industry as a cottage industry **2Hours**
- 1.2. Exotic and Endemic species of Aquarium fishes **4 Hours**

UNIT –II (9 HOURS)

- 2.1. Freshwater Aquarium: Purpose, Construction, Preparation and Maintenance
Aquatic Plants and Animals and Food for Aquarium Fishes **5 Hours**
- 2.2. Aquarium Maintenance Tips and Fish Care Guidelines- Aquarium Water Changes,
Testing the Aquarium water and filter maintenance. **4 Hours**

UNIT-III (15 HOURS)

- 3.1. Equipment used in the Maintenance of Aquarium, Essential Equipment, Aerator or Air pumps and Diffuser Stones, Aquarium Heaters and Thermostats, Various types of filters **4 Hours**
- 3.2. Conditions for an Ideal Aquarium **2 Hours**
- 3.3. Common diseases of aquarium fishes- diagnosis and treatment **5 Hours**
- 3.4. Use of pigments for colour enhancement **2 Hours**
- 3.5. Control of Algal blooms **1 Hour**

Suggested Readings

1. Ornamental Fish Culture and Aquarium Mangamen, A.D.Dholakia, Daya Publish in house
2. Fresh water Aquarium Models, John Tullock, Turner Publishing company
3. Setting up a Tropical Aquarium. By Stuart Thraves, Firefly Books Publication
4. Fresh water Aquarium Fish, Greg Gennings, Firefly Books Publication
5. Aquarium Fish, Mary Bailey and Gina Sandford, Anness publishing

Scheme of Evaluation

(External)

Answer the following questions

1. Define the Aquarium. Describe the Equipment's used in the Maintenance of Aquarium
10M
2. Preparation of Aquarium – Write the procedure
10M

 Procedure – 5M
 Preparation – 5M
3. Identify and Comment on
5X2= 10M
 - A. Live Bearer
 - B. Egg Layers
 - C. Aquatic Plant
 - D. Aquarium Accessories
 - E. Disease
4. Viva voce
05M

Andhra Christian College :: Guntur

Department of Zoology, ADD-ON Course 2018- 2019

AQUARIUM FISH KEEPING & MAINTAINANCE

ATTENDANCE STATEMENT

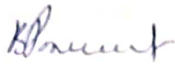
Date of Course : August 14th to August - 21st

Hours : 30 Hrs

Class / Group : B.Sc

S. No	Regd. No.	Name	14th Aug	15th Aug	16th Aug	17th Aug	18th Aug	19th Aug	20th Aug	21st Aug	22nd Aug	23rd Aug	24th Aug	25th Aug	26th Aug	27th Aug	28th Aug	29th Aug	30th Aug
1	Y183022003	A. Prabhavathi	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P
2	Y183022004	B. chinna	P	P	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P
3	Y183022005	B. Nagendrababu	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P
4	Y183022006	Ch. Ashok Kumar	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	A
5	Y183022007	Ch. Venkat Rao	P	P	P	P	P	A	P	P	P	P	P	P	P	A	P	P	P
6	Y183022008	T. Divya	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P
7	Y183022009	Y. Keerthana Rupaiah	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P
8	Y183022010	Y. Priscilla	P	P	P	P	P	P	P	P	A	P	P	P	A	P	P	P	P
9	Y183022011	T. Vidya Sagar	P	P	P	P	P	A	P	P	P	P	P	A	P	P	P	P	P
10	Y183022015	V. Yamini	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P

S. No	Regd. No.	Name	14th Aug	16th Aug	17th Aug	18th Aug	20th Aug	21st Aug	22nd Aug	23rd Aug	24th Aug	25th Aug	26th Aug	27th Aug	28th Aug	29th Aug	30th Aug	31st Aug
11	Y183022016	V. Prabhu Teja	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	P
12	Y183022017	Y. Sridisha	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P
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B. PRABHAKAR, M.Sc.
 Head of the Department
 Dept. of Zoology
 Andhra Christian College
 GUNTUR-522 001.


M.G. Linnu
 PRINCIPAL
 Andhra Christian College
 GUNTUR.

“Ye shall know the Truth and the Truth shall set you free”

Andhra Christian College::Guntur

(Day, II Shift & P. G.)

Accredited with A-grade by NAAC



Estd. 1885

CERTIFICATE

This is to certify that Mr. / Ms. T. Vidya Sagar.

Class B.Sc, Regd. No. Y183022014 has participated and successfully completed
Certificate Course in **Aquarium Fish Keeping and Maintenance** conducted by the Department
Zoology from 14-08-2018 to 31-08-2018.


Coordinator


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Estd. 1885

CERTIFICATE

This is to certify that Mr. / Ms. J. Divya

Class B.Sc, Regd. No. Y183022008 has participated and successfully completed
Certificate Course in **Aquarium Fish Keeping and Maintenance** conducted by the Department of
Zoology from 14-08-2018 to 31-08-2018.

T. Anil Kumar
Coordinator

A. Anil Kumar
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ANDHRA CHRISTIAN COLLEGE
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