

# **ST JOHN'S COLLEGE ANCHAL**

**Department of Zoology**

## **Add-On Course**

**The Department of Zoology is conducting the following Add on Course during the academic year**

**2022-2023**

**for UG and PG students of the college**

## **Aquarium Management and Ornamental Fish Culture**

**Course Duration: 30hrs**

**Eligibility: UG & PG Students**



**Course Coordinator Dr. Josin C. Tharian**

**Date of Commencement: 02/11/2022**

The course on Aquarium Management and Ornamental Fish Culture provides the opportunity to gain practical experience in the field of ornamental fisheries. The course is designed to provide theoretical concepts, live demonstrations and hands-on experience to the students.



## COURSE SUMMARY REPORT 2022-2023

Name of Course	ADD-ON COURSE - Aquarium Management and Ornamental Fish Culture (ZOO.AOF.22.1)
Course Duration	30 Hours
Department offering the Course	Department of Zoology
Faculty In Charge	Dr. Josin C. Tharian
Number of Students Enrolled	29
Start Date & End Date	02/11/2022 to 31/03/2023

The add-on course on Aquarium Management and Ornamental Fish Culture (ZOO.AOF.22.1) has been coordinated by the Department of Zoology, St. John's College, Anchal. The duration of the course was 5 months, conducted from 2<sup>nd</sup> November 2022 to 31<sup>st</sup> March 2023. 29 students were enrolled for the program.


The course was specially designed to provide hands-on training on Aquarium Management and Ornamental Fish Culture dealing with the culture and breeding of freshwater ornamental fishes. The 30-hour course covered a wide range of aspects such as the construction of aquarium tanks, maintenance of aquariums, important ornamental fishes their breeding, ornamental aquatic plants, preparation of feed and feeding management, water quality and disease management. The students also got a chance to do the techniques of induced breeding of many types of fish during practical sessions.

The course had a well-defined syllabus and was approved by the IQAC. The add-on course was coordinated by Dr. Josin C. Tharian, Assistant Professor, Department of Zoology. It was properly planned and organised to provide maximum support to students during their learning process.

At the end of the course, an exit examination was conducted. All students wrote the examination. A final assessment was done based on the marks secured by them during the written and practical examination. All students were passed the examination. Certificates were also provided to them after the successful completion of the course.

  
Course Coordinator



  
Principal



Name of Course	<b>ADD-ON COURSE (2021-2022)</b> <b>Plant propagation techniques: Seed propagation, Vegetative propagation and Micropropagation</b>
Course Code	<b>BOT.A21.1</b>
Department offering the Course	<b>Department of Botany</b>
Course Duration	<b>30 Hours</b>
Faculty In Charge	<b>Dr Kavitha C H</b>

**Course Title: BOT.A.21.1 Plant propagation techniques: Seed propagation, Vegetative propagation and Micropropagation**

The add on course covers the propagation of plants that have implications on commercial, medicinal and other diverse fields. The course comprehensively covers all means of plant propagation such as seed propagation, vegetative propagation and micropropagation.

**Course Objectives:**

1. Understand the principles and implications of plant propagation.
2. Understand the different modes of plant propagation.
3. Identify the merits and demerits of each mode of plant propagation
4. Apply the knowledge on plant propagation on day-to-day life.

**Course Outcomes:** At the end of the course, students should be able to:

- Acquire knowledge on plant propagation.
- Identify suitable method of plant propagation with respect to requirements.
- Recognise the role of plant propagation on day-to-day life

  
Course Coordinator



  
Principal



# ST. JOHN'S COLLEGE, ANCHAL

Affiliated to the University of Kerala  
It is accredited with A Grade by NAAC  
Recognised for STAR College by DBT, Govt. of India

LET YOUR  
LIGHT  
SHINE BEFORE  
MEN


## Assessment and Certification:

- Practical assessment: Participants will be evaluated based on their ability to carry over any artificial propagation method.
- Written test: A written exam covering the theoretical knowledge learned during the course.
- Course completion certificate.


## Syllabus



MODULE	TITLE	CONTENT	HOURS
1	<b>Introduction to Plant propagation</b>	Scope, and definition of Plant propagation.	2
2	<b>Seed propagation</b>	Pollination, seed, Structure of seed, Seed dormancy, Seed germination, merits and demerits of seed propagation	5
4	<b>Vegetative propagation</b>	What is vegetative propagation, Modes of vegetative propagation: cutting, layering, grafting, merits and demerits of vegetative propagation	12
6	<b>Micropropagation</b>	Totipotency, Micropropagation, Tissue culture medium, subculture, hardening merits and demerits of micropropagation	8
7	<b>Importance and Implications of Plant propagation</b>	Importance and Implications of Plant propagation with respect to mankind and environment	3

  
Course Coordinator

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