




DEPARTMENT OF ZOOLOGY
MANGALDAI COLLEGE, MANGALDAI
P.O-MANGALDAI, DIST. -DARRANG, ASSAM, PIN-784125
E-mail: deptofzoologymangaldaicollege@gmail.com

Date: 02-03-2024

NOTICE

It is for the general information that the Department of Zoology, Mangaldai College is going to start two Add-on Courses: “**Sericulture**” and “**Aquarium Construction and Management**” from **06-03-2024, Wednesday**. Therefore, all the interested students of Mangaldai College are hereby asked to register in any one of the above courses.


Head
Department of Zoology
Mangaldai College, Mangaldai
Darrang, Assam

Head of Department
Department of Zoology
Mangaldai College



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Curricular Design

THEORY

UNIT I: Introduction to sericulture: Prospects and scope of mulberry and non- mulberry sericulture in Assam. Varieties of silk, Types, and distribution.

UNIT II: Life cycle of silkworm, structure and function of silk gland, nature of silk.

UNIT III: Rearing of silkworm (Mulberry, Eri and Muga silkworm), Rearing operation: Rearing house and rearing appliance, early age and late age rearing. Environmental condition of rearing (temperature, light, humidity, and rain).

UNIT IV: Food plants of Mulberry, Eri and Muga silkworm, Types of mountages, harvesting and storages of cocoons, spinning and reeling.

UNIT V: Entrepreneurship of sericulture: Employment generation and potential. Silk products and economics in Assam.

PRACTICALS

- 1.Study of tools and equipments implemented in sericulture.
- 2.Study of different food plants.
- 3.Preparation of rearing house and rearing appliance.
- 4.Preparation of Kharika for eggs laying.
- 5.Uses of Disinfectants- Formalin, Bleaching powder.

INTERNSHIP

Visit to a sericulture farm in the locality.

About the course

Sericulture is an integral part of livelihood in North-East India specially in Assam and it has been in practice since time immemorial. This industry has been contributing to the global economy and has strengthened the entrepreneurship industry. Sericulture is an agro-based industry that involves the scientific method of cultivation of host or food plants of silkworm, rearing and cocoon production, reeling and spinning of cocoons to procure silk for processing and weaving. The course will allow the students to get an in-depth knowledge about the different types of silkworms, life cycle, diseases and prevention, and host plants. Moreover, the course will enable students to get hands on training, internship and fieldtrip. Overall this course will open avenues for different careers like obtaining higher courses in sericulture, job related to sericulture and start-ups.

Course duration: The duration of the course is 3 months with 30 hours of contact classes.

Who can apply?

The course is open for all students of Mangaldai College pursuing undergraduate and post-graduate courses.

Course fee: Rs. 300/-

Contact for any further detail:
deptofzoologymangaldaicollge@gmail.com



Add On Course on SERICULTURE

Session 2023-24

Organized by
Department of Zoology, Mangaldai College



Course coordinators-

Pritimoni Das, Assistant Professor

Members:

Dr. Minati Sharma, HOD, Dept. of Zoology

Dr. Seema Jyoti, Associate Professor

Bikash Rabha, Assistant Professor

Tunuja Boro, Assistant Professor

Krishna Das, Assistant Professor

Dr. Queen Saikia, Assistant Professor



Add-On Course (Session: 2023-24)

Aquarium Construction and Management

Department of Zoology, Mangaldai College



About the Course

Aquarium construction and management is one of the second most important hobby pursued by people all over the World. It not only gives aesthetic pleasure but also provides an avenue for developing entrepreneurship. Moreover, the knowledge on the variety of ornamental fish is an interesting field of research and the indigenous ornamental fish in an aquarium indicates the rich heritage of North East India. The course would cover the theory as well as hands-on-experience on Aquarium construction and Management for understanding the concepts in reality.

Course duration

The duration of the course is 3 months with 30h of contact class

Syllabus

Theory:

1. *Introduction to Ornamental Fish Farming*
2. *Introduction to Aquarium*
3. *Benefits of Aquarium*
4. *Construction of Aquarium*
5. *Management of Aquarium*
6. *Different types of filters used in Aquarium*

Practical:

Demonstration of aquarium construction and its management.

Who can apply

The course is open for all the students of Mangaldai College

Course fee: Rs 300/-

Members

Dr. Minati Sharma, HOD, Dept. of Zoology
Dr. Seema Jyoti
Pritimoni Das
Bikash Rabha
Queen Saikia

Course Coordinator

Tunuja Boro, Assistant Professor