

**Ministry of Agriculture, Livestock and Irrigation**  
**Department of Fisheries**  
**Fisheries Institute (Twantay)**



### **Location**

The Fisheries Institute (Twantay) is situated on Twantay - Maubin Highway, Twantay District, between Zee Phyu Gone Village and Mya Goe Village, located on the side of Zee Phyu Gone Creek and it (26.956 km) away from Yangon. Fisheries Institute has 92.846 acres and it is within the land area (1232.46 acres) of Twantay Fishery Station Compound.



### **Background History**

At the meeting of the (3/2021) of the State Administration Council, coordination meeting, the Chairman of the State Administration Council given the instruction for the extending of University , Colleges , Vocational training , Institute of science that would enable country focus on agriculture, Livestock held on (22-2-2021). In accordance with the 3 economic orientations of the State Administration Council, the Department of Fisheries has been opening the Fisheries Institute (Twantay) that's to make a chance for employment opportunities as a profession .

Fisheries Institute (Twantay) buildings were completely finished on (5-9-2022) by the administration and management of Department of Fisheries , Development and Research Division of the Ministry of Agriculture, Livestock and Irrigation, with the intention of becoming one of Myanmar's fisheries-related a university by the order of the Union Minister.

On the date of (12-12-2022), The Union Minister of Ministry of Agriculture, Livestock and Irrigation attended the opening ceremony and opened of Fisheries Institute (Twantay).

**The objective of the Fisheries Institute (Twantay) is as follow,**

- To produce skillful mid-level aquaculture professionals for the improvement of aquaculture production in Myanmar.
- To provide an opportunity for students who are interested in aquaculture to study as a major subject, and it to be able to obtain employment opportunities that match their vocational education.
- To increase the availability of human resources that can support and participate in the programs for the development of new livelihood opportunities for farmers and the development of rural areas and for the development of Myanmar's fisheries sector.
- To understand the Aquatic environment and relevant subjects of Biology , Physics, Chemistry and ecology of aquatic plants and animals, water resources and their production, the basic science of chemical composition of aquatic organisms and their use.
- Not only fresh water site but also to learn about the marine sector such as Marine environment to support Marine fisheries, Biology, Physics, Chemistry of Marine organisms and Marine water resource conservation.

### **Expected results/benefits**

We will be able to produce human resources capacity with mid-level aquaculture experts there are needed to be performed in Myanmar's fisheries sector.

### **Duties responsibilities in Fisheries Institute (Twantay)**

In the Fisheries Institute (Twantay) there are one of Deputy Director Level for Principle,( 1 ), Lecture(2), Assistant Lecture(3), Fishery officers(3),office staffs (5) and (10) persons of general workers for each duties , with total (25) staffs are working in current status.

### **Teaching program of the Fisheries Institute (Twantay)**

The duration of the course of the Diploma is (3) years and if you successfully attend and complete the course, you will be awarded a Diploma in Fisheries and Aquaculture. As a teaching system, according to the Vocational Training Style, for the first year will be 60% theory and 40% practical, the second year 50% theory and 50% practical, and the third year 30% theory and 70% practical. In addition, there will be going on field trips related to the subject.

### **Number of trainee**

There are (66) students in the first year and (40) students in the Second Year on attending the Fisheries Institute (Twantay).

### **Teaching facilities**

- There will be theory and practical teaching by teachers who have national and foreign experience from the Department of Fisheries and who have a Ph.D degree and a Master's degree in their field of specialization in the subject.
- Scientific practical teaching at modern laboratory.
- During the academic year, private fish/shrimp farming ponds, Field trips to cold storage facilities.
- The state also awarded a monthly allowance of 30,000 kyats.
- Arranging the school hostel system for the convenience of students.
- After completing the Diploma Course, the Deputy Assistant Fishery Officer in the Department of Fisheries and external private companies/organizations continues will be provided the employment opportunities.
- Connecting with Yangon University and Department of Fisheries and Aquaculture to offer B.Sc (Fisheries and Aquaculture) degree for outstanding students.
- Futsal (Soccer Play Ground), Takraw, and Volleyball have been built in the spacious campus for students to relax, just like university schools.
- Arrange sport game and competition of debate for their affection.

### **Eligibility criteria for student**

The applicant must have the following qualifications,

- Must be a citizen of Republic of the Union of Myanmar
- Candidates who have passed the university entrance examination with Science subjects can apply.
- Must not be older than (22) years old.

### **Course period**

- First semester- Annually( from December 1<sup>st</sup> to March 31<sup>st</sup> )
- Second semester – Annually (from June 1<sup>st</sup> to October 16<sup>th</sup>)
- Summer vacation –Annually (From April 1<sup>st</sup> to May 31<sup>st</sup> )
- Thadingyut holiday – (From October 17<sup>th</sup> to November 15<sup>th</sup>)

### **Certificate awarded**

If you successfully completed the (3) year course “Diploma in Fisheries and Aquaculture” Degree will be awarded.

### **Being able to attend a university transfer**

After successfully completing the diploma course for three (3) years, those who meet the specified qualifications will be allowed to apply for admission to Yangon University's (Department of Fisheries and Aquaculture). Continues to joy the Third Year (1) and fourth year (1) will be attended for a total of (2) years of study and will be conducted to obtain the B.Sc(Fisheries and Aquaculture) degree.

### **Employment opportunities**

After completing the three (3) year course, the Ministry of Agriculture, Livestock and Irrigation, In the Department of Fisheries, will be provided the start of position of Deputy Assistant Fishery Officer. In addition, Employment opportunities will be provided in external private company organizations related to the fisheries industry.

**Diploma course subject**

No.	Module No.	Diploma Course Year		
		First Year	Second Year	Third Year
1.	Myanmar	✓		
2.	English	✓	✓	✓
3.	Fish Taxonomy	✓		
4.	Nutrition, Feed and Feeding	✓	✓	✓
5.	Reproductive Biology	✓		
6.	Limnology	✓	✓	
7.	Fish Biology	✓		
8.	Hatchery Management and Technology	✓	✓	✓
9.	Farm Management and Technology	✓	✓	✓
10.	Aquaculture Engineering			✓
11.	Fish Physiology			✓
12.	Molecular Biology		✓	
13.	Aquaculture Economic and Financing			✓
14.	Food Safety and Management			✓
15.	Planning, Project Formulation and Management		✓	✓
16.	Fish Ecology		✓	
17.	Fish Pathology		✓	

**and Curriculum Authors Diploma course subject**

No.	Subject	Curriculum Authors
1.	Myanmar	University of Veterinary Science
2.	English	Agricultural Institute
3.	Fish Taxonomy	U Win Ko Ko(Deputy Director), Dr.Yin Yin Than(Lecture) Dr.Thet Yu Yu Swe(Lecture)
4.	Nutrition, Feed and Feeding	Dr. Aung Naing Oo(Director),U Kyaw Moe Aung(Deputy Director),Dr. War War Phoo(Fishery Officer)
5.	Reproductive Biology	Dr. Myo Min Hlaing (Deputy Director), Dr.Nilar Shein (Deputy Director)
6.	Limnology	Dr.Kyaw Kyaw (Director),Daw Aye Aye Myint (Assistant Director), Daw San San Soe (Fishery Officer)

No.	Subject	Curriculum Authors
7.	Fish Biology	Dr. Myo Min Hlaing (Deputy Director),Dr.Nilar Shein (Deputy Director),Dr.Than Than Lwin(Deputy Director)
8.	Hatchery Management and Technology	Dr. Myo Min Hlaing (Deputy Director),Daw Mya Mya Sint (Deputy Director), U Ye Tun Naing(Deputy Director),U Zaw Thein Tun (Assistant Director), Daw Aye Aye Myint (Assistant Director)
9.	Farm Management and Technology	Dr. Myo Min Hlaing (Deputy Director),Daw Mya Mya Sint (Deputy Director),U Ye Tun Naing (Deputy Director)
10.	Aquaculture Engineering	Dr.Kyaw Kyaw(Director),U Nyi Nyi Tun (Deputy Fishery Officer)
11.	Fish Physiology	Dr.Kyaw Kyaw(Director),Daw Myat Khine Mar (Deputy Director), Daw Ohnmar Aung(Assistant Director)
12.	Molecular Biology	Daw Myat Khine Mar (Deputy Director), Daw Ohnmar Aung (Assistant Director),Daw Yi Yi Cho(Fishery Officer)
13.	Aquaculture Economic and Financing	Dr.Tun Thein(Director),Daw Nway Nway Myint Thein(Assistant Director),Daw Cho Mar Oo(Deputy Officer)
14.	Food Safety and Management	Dr.Su Myo Thwe(Director),Dr.Nant Kay Thwe Moe(Assistant Director), Daw Nay Chi Cho Lin(Fishery Officer)
15.	Planning, Project Formulation and Management	Dr.Kyaw Kyaw (Director),U Ye Kyaw(Fishery Officer)
16.	Fish Ecology	Dr.Tun Thein(Director),U Zaw Tun Aung(Fishery Officer),U Min Khing(Assistant Fishery Officer), Daw Soe Myat Thu (Assistant Fishery Officer)
17.	Fish Pathology	Daw May Thandar Wint(Director),Daw YI Yi Cho (Fishery Officer)

## Conclusion

Aquaculture in Myanmar's play a major role in the livelihood and economic issues of the people because the aquaculture sector can significantly support the country's goal of social economy, food and nutrition security channel for the rural people, as well as support the country's foreign income. In addition, the attracting fish farmers to get more profit, because it can create economic growth through employment and business opportunities. Myanmar currently needs to develop advance technology and extend of aquaculture management and practice.

By being able to open a new institute of Fisheries at Tawntay District, Yangon Division, that's Fisheries and Aquaculture Diploma Course we will be able to produce mid-level aquaculture professionals, and will contribute to the development of the nation's aquaculture sector from one corner. Thus developing human resources, and will provide more employment opportunities.



**Students are learning in Theory**



**Students are learning in Practical,**



**Conducting practical field work**





**Study trip to Global Earth Agro & Aqua Industry Public Co; Ltd**