

**Guidance to Students to Study at the Member Schools under the  
Postgraduate (Master) Programme on Tropical Fisheries  
with International Linkage (ILP)**

February, 2016  
ILP Governing Council

## Foreword

The 'Postgraduate (Master) Programme on Tropical Fisheries with International Linkage' (ILP) is the framework which share the curriculum which is formed with characteristic subjects offered by the member postgraduate schools in Asia and provide young people with high quality education in order to produce manpower who possess the spirit to contribute to the globalising fishery industry and society.

The Programme is composed of the member postgraduate (master) schools in various countries in Asia, namely Faculty of Fisheries and Marine Science, Sam Ratulangi University (Indonesia), Faculty of Fisheries, Kagoshima University (Japan), School of Fisheries and Aquaculture Sciences, University Malaysia Terengganu (Malaysia), College of Fisheries and Ocean Sciences, University of the Philippines Visayas (Philippines) and Faculty of Fisheries, Kasetsart University (Thailand). Students registered in the Programme at his/her home university can take subjects offered under the Programme freely at member universities, receive education with no additional cost and obtain credits. Students who satisfy the requirements set by the Programme will receive a certificate of completion of the Programme.

The rules, regulations and other information are provided by the member schools to which students belong; however, there are still unavoidable differences in higher education systems, societies and life styles from country to country. This guidebook provides students with information regarding rules, advices and other data in member schools. Students who want to study in other member schools overseas are requested to read this guidebook carefully to decide the university to study. Students are also advised to discuss sufficiently with his/her supervising professors at his/her home university.

## **Faculty of Fisheries and Marine Sciences, Sam Ratulangi University (SRU), Indonesia**

### **(1) Procedures for taking subjects offered by SRU**

Students who enrolled in the International Linkage University (ILP) program can select courses offered by Sam Ratulangi University (SRU) following the courses offered in a semester based on the curriculum. The students will attend the classes together with SRU's students who are involved in the ILP program. The course materials given are based on the syllabus and subject of the course. Each course will be taught by 1-2 teaching members with doctorate qualification.



### **(2) Recommended study pattern at SRU**

The academic year in SRU starts in August and is conducted in two semesters every year (odd semester, August – January, and even semester, February – July). New student registration starts in February, followed by Indonesia National Entrance Test in July and new student registration in July as well.

For foreign students, the national entrance test is not required, but they will follow specific procedure based on the reference of Accepting University in Indonesia, after meeting all immigration requirements. Students who are involved in the ILP program who take the subject at SRU, can enter all the semester but must submit a request at least 2 months in advance in order to be prepared supervisor.

### **(3) Information about study at SRU**

The University is the main source of scientific truth search for those who have ideas, concepts, technological innovation, and arts. The University, as repository of knowledge and intellectuality, must have explaining and predicting capabilities to find and prove the truth through scientific approach. This approach is employed to build up and develop human intellectuality in certain cultural range. At the higher level, the intellectuality aspect in line with moral and ethics determines human culture development. Therefore, the University becomes source and initiator of culture.

Sam Ratulangi University is located in Manado municipality that is geographically laid in the Rim of Pacific and it has become an important gateway to Indonesia. The 45-hectare main campus of Sam Ratulangi University is located in Manado City, about 2 km from downtown and close to Manado Bay. The campus is just 10 km away from the famous Bunaken National Marine Park, the world class ecotourism and scientific research attraction, famous for exotic coral reefs and rich marine biodiversity. Established in 1965, the university name was in honor of Dr. Saul Samuel Jacob Ratulangi, renowned throughout Indonesia, hailing from Manado, as a leader in the field of education.

SRU has 11 faculties (medicine, engineering, agriculture, animal husbandary, fisheries and marine science, economics and business, social and political sciences, law, cultural science, mathematics, basic sciences, and public health).

#### **(3.1) Scholarship and supports**

Foreign students (registered in SRU) who enrolls the ILP program in Indonesia are given



opportunities to obtain Indonesian Government Scholarship after fulfilling the specified requirements. Scholarship application can be processed one year earlier.

### **(3.2) Language for education**

For ILP program students, English is used as a second language, and it is not required to master Bahasa Indonesia.

### **(3.3) Arrangements to enter Indonesia (Manado)**

To enter Indonesia (Manado), visitor's visa is required. Indonesia collaborates with other countries to arrange free entrance visa to

Indonesia. For those from countries without visa requirement, Visa on Arrival (VoA) can be obtained at the airport when entering Indonesia.

### **(3.4) Travel to SRU**

Sam Ratulangi University is located in Manado Municipality (3-hour flight from Jakarta, 3-hour flight from Bali, 3-hour flight from Singapore, and 1-hour flight from Southern Philippines). Thus, foreigners who come to Manado, could come through Jakarta, Bali, or Singapore. SRU's campus is located in the middle of Manado Municipality, about 500 m from the coastal area.

### **(3.5) Insurance**

The University does not provide student's insurance. Securing a personal insurance is advised.

## **(4) Life in Manado**

### **(4.1) Faculty of Fisheries and Marine Science**

Manado is located at the center of Coral Triangle region which is the center of world marine biodiversity. Faculty of Fisheries and Marine Science (FFMS) focuses on marine biodiversity exploration for exploitation and conservation interests. Researches emphasize on how important the available species are utilized for human interest through medicinal and food products.

FFMS, Sam Ratulangi University, was established in 1965 and now has 6 study programs (Fisheries Technological Product, Fisheries Resources Exploitation, Fisheries Agribusiness, Aquatic Resources Management, Aquaculture, and Marine Sciences). FFMS serves undergraduate courses (bachelor in Fisheries), master courses (Master of Science in Aquatic Sciences), and doctorate courses (Doctorate in Marine Science). To achieve the educational goals in fisheries and marine sciences, FFMS provides one center (Center of Tropical Marine Biodiversity) and 12 laboratories (Fisheries Social and Economic, Marine Biology, Marine Biomolecular and Pharmacology, Fisheries Capture Engineering, Fresh Water Bioecology, Coastal and Small Islands Management, Coastal Geomorphology, Aquaculture Engineering, Fish Health and Aquatic Toxicology, Quality Control of Fisheries Products Handling and Processing of Fisheries Product, Marine Field Station). Teaching activities are handled by professors, lecturers and assistants with various expertise in the area of fisheries and marine science.

**(4.2) Accommodation**

Sam Ratulangi University provides student's residence, but it is largely used by local students. There is no international house in SRU, therefore, foreign students must rent a small room for US\$ 150 – US\$ 300 a month, depending on room facilities.

**(4.3) Cost of living**

In general, meal on campus costs about IDR 10,000 to IDR 15,000 (US\$ 1-US\$ 1.5) per meal, while in the downtown restaurants, people spend US\$ 2-US\$ 3 for one meal.

**(4.4) Attention to class participants**

In the classroom, students are freely involved into discussion with the lecturer and free to use computer facilities, but they should decently dress up. In the laboratory, students must put on laboratory clothes. For presentation assignment, students are supposed to have white-black dress and tie for males. Students are prohibited to smoke, turn on the music player, and wear sandals. Every student will get an internet password. With the internet access, every student will get an academic portal to be able to access the academic grades, courses, study plan, assignment, discussion with supervisor and on line real time remote class.

## Faculty of Fisheries, Kagoshima University, Japan (KagUFF)

### (1) Procedures at your university for taking subjects offered by KagUFF

The subject titles, professors in charge and periods of the subjects, which are offered in Faculty of Fisheries, Kagoshima University (KagUFF) under the International Linkage Programme (ILP) are listed at the website. Students joining this programme are required to communicate with the person in charge of the procedures regarding taking subjects in their home university. During the registration, a supervisor responsible for them while staying in KagUFF should be appointed. However, students who cannot decide a supervisor should explain their desired study field in detail (For example, 'fisheries science' is inadequate. The interest field should be explained in detail, such as design of fishing gear, disease control in aquaculture, participatory management of coastal fisheries, *etc.*).



### (2) Recommended study pattern

An academic year starts in April in Japan. The first semester is from April to July, and the second semester is from October to March. KagUFF starts a quarter and summer-session system in the M.S. course. The first quarter (Quarter a) of each semester is the first eight weeks, and the second quarter (Quarter b), the latter half. The Summer Session starts in the week after the week including August 18 and continues for four weeks. However, some of the subjects are provided on the semester basis. By joining the Summer Session or Quarter Ia (or IIIa) is easier to obtain 6 credits in a shorter period of time. Students who prefer to join the semester system are recommended to participate in Semester I (III). Because only a few subjects are provided in Semester II (IV), it is difficult to obtain sufficient credits and, therefore, joining KagUFF during this period is not recommendable for most students, with exceptions of those who take the M.S. thesis study under their co-supervisor in Kagoshima.

#### (2.1) Summer session

The maximum number of credits which can be obtained during five-week stay around the Summer Session is approximately 10 units. It is recommended to take around 6 to 7 credits by taking "2 lecture subjects, 2 experimental subjects and 1 open subject" or '1 lecture subject, 3 experimental subjects and 1 open subject'. Short-term on-board trainings can be arranged according to his/her supervisor. Joining during this period is recommended to students who prefer to study the following fields or experimental techniques mainly.

Major lecture subjects: Aquatic Sciences, Fishery Resource Sciences, Development and management of Tropical Fisheries, Archipelagic Marine Biology

Major experimental subjects: Latest Analytical and Experimental Method (Chemistry), Latest Analytical and Experimental Method (Biochemistry), Latest Analytical and Experimental Method (Basic Biology)

Short term on-board training: Experimental On-board Training

#### (2.2) Quarter Ia or Quarter IIIa

The maximum number of credits obtainable during the nine-week stay is around 10-11 units. This can be accomplished by taking '4 lecture subjects, 1 short term on-board training and 1 open subject'. Joining during this period is recommended to students who prefer to join



Training

the following fields or mainly laboratory work to study with his/her co-supervisor.

Major lecture subjects: Fishery Food Sciences, Fisheries Economics, Aquatic Environment Conservation

Short term on-board training: On-board Training (Oceanographic observation), On-board Training (Resources and measurement, techniques) Experimental On-board

### **(3) Information about study at Kagoshima University**

#### **(3.1) Scholarship and supports**

Students who need to apply for a scholarship should contact earlier the person in charge in their home university. KagUFF may provide some scholarship support for students joining the S.S., depending on the Japanese fiscal year. The information regarding the support plan can be obtained from the home university in advance. An annual support plan is announced around March and the confirmed scheme, May.

#### **(3.2) Language for education**

The language used for education in this Programme is English, thus learning the Japanese language prior to joining the Programme in Kagoshima is not necessary.

#### **(3.3) Arrangements to enter Japan**

The visa-issuance procedure is different, depending on countries where visitors come from. For this reason, students are required to communicate with the persons in charge of this matter at their home university. KagUFF needs additional time for supplying any certificate or relevant documents. Students joining the summer session need to complete the procedure by May.

#### **(3.4) Travel to Kagoshima University**

Though Kagoshima International Airport is located in Kagoshima Prefecture, the airport is not very convenient for travels from the member countries. Fukuoka International Airport is the useful gateway airport between Asian countries and Kyushu Island (in which Kagoshima Prefecture is located), Japan. Travellers are recommended to land at Fukuoka Airport and proceed to Hakata railway station by subway in order to catch *Shinkansen* (super express) to Kagoshima. If the travellers land at Osaka/Kansai or Nagoya/Chubu *Centrair* Airports, the use of domestic connecting flights to Kagoshima Airport is recommended. From Kagoshima Airport to downtown Kagoshima City, shuttle buses run every 10 minutes and it takes about 1 hour to the City centre.

#### **(3.5) Insurance**

Kagoshima University does not guarantee accidents and other losses, which are not imputable to this university, whether they are related to education or not. Students have to join a private insurance by themselves, or as recommended by their home university before leaving.

### **(4) Life in Kagoshima**

#### **(4.1) Faculty of Fisheries, Kagoshima University and Kagoshima City**

Kagoshima University was established in 1949 and is the largest national university in Kagoshima City in the southern Kyushu region. The annual intake of undergraduate students is about 2,000. The University consists of nine faculties and ten graduate schools located at three campuses in Korimoto, Sakuragaoka and Shimoarata. KagUFF is located at the Shimoarata Campus and consists of the Faculty of Fisheries and Postgraduate School of Fisheries Sciences (M.S.). The M.S. course is comprised of five study fields, namely Aquatic Sciences, Fishery Resource Sciences, Fishery Food Sciences, Fisheries Economics and Aquatic Environment Conservation.

Kagoshima City is the prefectural capital with a population of approximately 600,000. It provides modern public transportation services and is a comfortable city to live. The beautiful view of Mt. Sakurajima can be seen from almost any point in the city. Because it is an active volcano, ash fall can be experienced sometimes.

#### **(4.2) Seasons**

Because of its southern location, the weather is quite warm year-round with four seasons. In summer around August, the daytime temperature is around 32 to 34 °C, while in winter around January, around 5 °C, rarely dropping below zero. Spring and autumn are between the summer and winter. The climate during the Summer Session is, therefore, almost the same as tropical environment and you can live as in your country. Typhoons hit occasionally mainly from July to October.

#### **(4.3) Accommodation**

Kagoshima University provides its International Dormitory (JPY 50,000-60,000/month, excluding gas, electricity) and International Guest House (JPY 50,000-60,000/month, excluding gas, electricity) for overseas students. Private apartments and condominiums are available for rent (JPY 30,000-40,000/month) within walking distances.

#### **(4.4) Cost of Living**

The prices in Kagoshima are comparatively affordable in comparison to other places in Japan. The payment for lunch in the faculty's cafeteria is, for example, around JPY 400. Perhaps, JPY 40,000 a month is enough for food. Most education facilities for this Programme and accommodation facilities are located at the Shimoarata Campus or nearby areas, which are in walking distances. Therefore, local transportation cost is marginal.

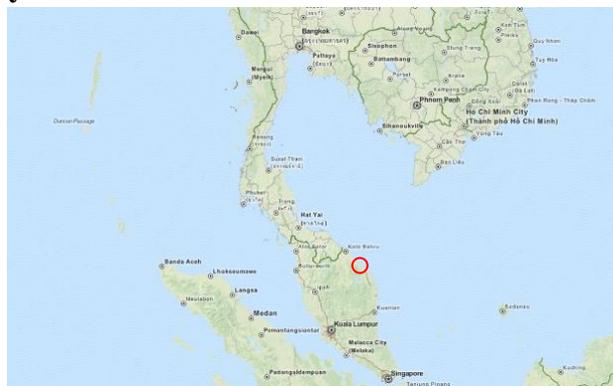
#### **(4.5) Attention to class participants**

Suitable clothing and protective gear are required for laboratory and on-board training (lab-coat for biological and chemical experiments, and fatigues for fields' activities and on-board training). For the on-board trainings, though each participant has to prepare his/her personal items, meal(s) are cooked and provided by the training vessel. Participants need to pay additional fee(s) for meal(s) (JPY 1,100/day) and bed sheet cleaning (JPY 1,100/travel) if they join an overnight on-board trip. A small number of subjects cost students for travel expenses.

## **School of Fisheries and Aquaculture Sciences, Universiti Malaysia Terengganu, Malaysia (UMT)**

### **(1) Procedures for taking subjects offered by UMT**

Procedures for taking subjects offered by UMT are divided into two parts. The first part is the procedure to be taken while the students are still at their home university. Another procedure is when the students arrived at UMT.



#### **(1.1) Procedure at home university**

Prior to the start of a semester, UMT will disseminate the information on the subjects to be offered including the person-in-charge (normally the lecturer) of the subjects. This announcement will be made through ILP Governing Council and the programme coordinator for each university. Students who wish to take any subject offered at UMT are required to notify the coordinator of ILP of UMT for confirmation. Should the students need additional information on the subjects, direct consultation with the person-in-charge of the particular subjects is recommended before proceeding with pre-registration.

#### **(1.2) Procedure at UMT**

In UMT, the students are required to register the selected subjects within 2 weeks of the commencement. Within that 2-week period, students are allowed to drop the subject which is deemed unsuitable. The addition of subjects can also be made during that period. However, should the students need to make any changes on the subjects registration, they must seek the approval from their home university.

### **(2) Recommended study pattern at UMT**

Graduate programmes under coursework structure in UMT are based on semester system which starts in September each year. While the semester system is adopted for the subjects taken by the local students, the Programme Subjects are also offered based as intensive courses over a period of 2 to 4 weeks. The recommended periods for ILP students to come to UMT are as follows:

- i. March to April - Recommended for all ILP students  
This is during the beginning of Semester II in UMT. The number of subjects offered during this period are 5 subjects which equivalent to 15 credits.
- ii. June to July - Recommended for students from Kagoshima University  
This period is during a long semester break and the number of subjects offered might change depending on the availability of the lecturers and also to suit the need of ILP students at that time. The number of subjects to be offered during this period is between 3 – 4 subjects or equivalent to 9 – 12 credits.
- iii. October to November - Recommended for all ILP students  
This is during the beginning of Semester I in UMT. The number of subjects offered during this period is 6 subjects or equivalent to 18 credits.

These recommended periods are arranged to enable ILP students to obtain 6 credits in one visit to UMT. However, should the students need to come to UMT outside or longer than these recommended periods, they need to consult the person-in-charge of the preferred

subject.



### **(3) Information about study at UMT**

#### **(3.1) Scholarship and supports**

Students who required a scholarship should contact and make the arrangement with their home university. UMT and other bodies in Malaysia might provide a scholarship to the international students. Should this available, the information will be circulated to all the coordinators in each university.

#### **(3.2) Language for education**

The official language for postgraduate studies is English, and this language can be conveniently used in the campus for all means of work or affair. However, learning basic Malay would be an advantage when communicating with local residents.

#### **(3.3) Arrangements to enter Malaysia**

Students are advised to obtain a visa before entering Malaysia. The requirement for visa is different, depending on the countries where visitors come from. Students are, therefore, recommended to contact the Malaysian Embassy in the home country or UMT's International Office for the enquiries related to this matter. Application for visa should be made at the nearest Malaysian Mission in your country of origin. In countries where there is no Malaysian Mission, application should be made at the British High Commission/Embassy. To apply for a visa, the following documents are required:

- i. Valid passport – Validity of passport not less than 6 months
- ii. Form IM.47 (3 copies)
- iii. Three (3) passport sized photographs
- iv. Airline ticket to Malaysia
- v. Proof of sufficient funds
- vi. The Admission offer letter
- vii. The UMT's Visa Application Recommendation Letter or the Approval Letter by the Immigration Department of Malaysia for foreign student to study in Malaysia. (The original letter must be presented to the Graduate School for your registration as a student).

#### **(3.4) Travel to UMT**

UMT is located just 10 km from the airport (Sultan Mahmud International Airport). The recommended international route for travel is via Kuala Lumpur. Depending on the airlines, students may travel to the Sultan Mahmud International Airport from Kuala Lumpur International Airport (KLIA) or Kuala Lumpur International Airport 2 (KLIA2).

#### **(3.5) Insurance**

UMT will not be responsible for any accident or other losses at all times during the students' stay. Therefore, it is the students' responsibility to seek for insurance.

### **(4) Life in Kuala Terengganu**

#### **(4.1) School of Fisheries and Aquaculture Sciences, Universiti Malaysia Terengganu (UMT) and Kuala Terengganu**

UMT is located in the city of Kuala Terengganu, Terengganu. This city is situated on the

east coast of Peninsular Malaysia and is approximately 400 km away from Kuala Lumpur. Universiti Malaysia Terengganu was established in 1979 as the Center for Fisheries and Marine Science of University Putra Malaysia (one of Malaysia's oldest universities). In 2001, UMT (at that time known as University College of Terengganu) was given autonomy by Malaysian government. After several status and name changes, it was given a full-fledged university on the 1st February 2007 and known as Universiti Malaysia Terengganu. UMT consists of 8 schools (or faculties) which offer various disciplines of study focusing on aquatic sciences and resource sustainability themes to comply with UMT's niche areas.

As all other schools, the School of Fisheries and Aquaculture Sciences (SFA-UMT) was established on 1<sup>st</sup> December 2013 following the transformation of UMT. Although it is administratively new, the SFA-UMT has a long tradition at the same spectrum with UMT. The School offers various levels of fisheries and aquaculture programmes which combine science, technology, management and entrepreneurship. These programmes are Diploma in Fisheries, Bachelor of Science in Fisheries, Bachelor of Science in Aquaculture, Master of Science in Aquaculture and the newly developed Master of Science in Sustainable Tropical Fisheries. In addition, the research programmes at Master and Doctorate levels are also offered.

Kuala Terengganu is the royal and administrative capital of the state of Terengganu. Although it is the smallest district in Terengganu, this city is the most populated with a population over 340,000. It is a diverse and multiracial city but with significant domination of Malay and Muslims. Kuala Terengganu is famous for its beautiful beaches and is characterised by a strong Malay culture, laid-back lifestyle, tranquil coastal towns and rustic villages. Its calm yet unique environment makes it as the perfect place to study and get new experiences.

#### **(4.2) Seasons**

In terms of weather, this city is fairly similar to other places in Peninsular Malaysia with average temperature of 30°C throughout the year. This city is, however, affected by North-East Monsoon season which brings strong wind and torrential rains, and sometimes floods, between November to February.

#### **(4.3) Accommodation**

UMT has no permanent vacancy of the accommodation for students. However, the arrangement for hostel and university-managed accommodation can be made via the coordinator of this programme. There are also many rental houses nearby the campus with the price between MYR 500-MYR 1,000 per month. It is advised to keep in mind that most of the rental houses are not furnished and the rent does not include the utility bills (average combination of electricity and water bills is MYR 60 per house of 6 residents).

#### **(4.4) Cost of Living**

Students are expected to spend an average of MYR 6 per meal inside the campus, and the price may be slightly different outside the campus. The cost of living depends very much of the needs of the life style of the individual students. Students should have adequate funds to cover living expenses, clothing, books, travelling and others. The estimate cost of living is about MYR 700 – MYR 1,000 per month not including accommodation.

#### **(4.5) Attention to class participants**

Students are advised to wear reasonably well-mannered clothes while in campus and the nearby town. Suitable and protective clothing that comply with health and safety standards are to be worn during laboratory and field work.

# College of Fisheries and Ocean Sciences, University of the Philippines Visayas, Philippines (UPV)

## (1) Procedures for taking subjects offered by UPV

A graduate student who is registered in any other institution with which the UP System has an existing agreement may be admitted as a non-degree student in UP Visayas. Students who enroll in UPV through the International Linkage Program (ILP) can choose subjects submitted by UPV to the ILP Governing Council. UPV shall disseminate the list of subjects, with the corresponding faculty-in-charge, to be offered in each academic year.



### (1.1) Procedures at home university

Before a student can be admitted to UPV, he/she should seek a written permit from the Dean or Registrar of his/her home university. Along with the permit, the student submits an Application Form to the Graduate Program Office of UP Visayas. The student should notify the UPV coordinator for ILP of his/her application to admission to UPV. Should a student need additional information on the subjects, he/she may directly consult the faculty-in-charge of a particular subject.

Students should inform UPV of their intention to enroll at least a month before the end of classes of the preceding semester. The total number of units taken as a non-degree student shall not exceed 9.

### (1.2) Procedures at UPV

The Dean of College of Fisheries and Ocean Sciences (CFOS) shall assign a Faculty Adviser to attend to the academic requirements, registration procedures, transfer arrangements, *etc.* of the incoming foreign graduate students. As a requirement for registration, a student shall undergo a physical/medical examination in UPV's health services unit to determine his/her fitness to undertake academic work. Every student will be given web-based academic portal accounts that will be used for enrolment, access study plan, subjects, academic grades, and perform faculty evaluations.

The registration period in UPV usually lasts for five working days. A student may be allowed to add subjects (add matriculation) or change choice of subjects (change matriculation) only during the registration period, upon the approval of his/her Program Adviser (from his/her home university), Faculty Adviser (from UPV) and the faculty-in-charge of the subject he/she intends to take. After the registration period, the student is not allowed to add or change subjects.

If a student wishes to discontinue attending a particular subject, he/she applies for Dropping of Subjects within a specified period. In such case, the student does not receive any grade and credit for the subject he/she dropped. At the end of the semester/trimester, the student receives a mark "Dropped" for that particular subject.

At the end of the term, the student receives his/her final score. Official transcripts shall be issued by the University Registrar subject to pertinent procedures (*e.g.* student clearance, *etc.*).

## (2) Recommended study pattern at UPV



The academic calendar of UPV is either in a semestral or trimestral mode. In a semestral mode, the academic year is divided into First Semester (August – December), Second Semester (January – May) and Summer Session (June – July). Subjects are taught Mondays to Fridays.

In a trimester mode, the academic calendar is divided into First Trimester (September – December), Second Trimester (January – April), and Third Trimester (May – July). Subjects are often

taught on weekends, although some are taught on Fridays.

Most subjects are offered on a specific semester/trimester. For students who cannot stay in UPV for 5 months (*i.e.* one semester) or 4 months (*i.e.* one trimester), it is recommended that they enroll during Summer Session. A 3-unit subject is taught for 2 hours a day from Monday to Friday in a 5-week period.

If it is possible (upon the approval of the Dean and the assigned faculty-in-charge), a 3-unit subject may be taught in an intensive mode, *i.e.* it can be taught 4 hours a day for 12 working days.

ILP students can enroll a maximum of 9 units in a semester and/or trimester. During the Summer Session, a student can only enroll 6 units.

### **(3) Information about study at UPV**

#### **(3.1) Scholarship and supports**

Financial support/scholarships/grants are applicable only to Filipino students.

#### **(3.2) Language for education**

The language used for education in the Philippines is English. Students from countries where English is not the medium of instruction are advised to learn English sufficiently before attending the classes at UPV.

#### **(3.3) Arrangements to enter the Philippines**

Students who will be staying in the Philippines for a long period need to acquire a student visa. The issuance of a visa varies depending on the country where a visitor comes from. It is recommended that students communicate with ILP coordinators of their home and receiving universities. UPV needs time to supply relevant documents that are needed for student visa application.

#### **(3.4) Travel to UPV**

For international travelers, Manila and Cebu Airports are the main gateways into the Philippines. Some other international flights are available in airports in Panay Island (*e.g.* Iloilo, Kalibo) although the number of flights may be limited. UPV is accessed through Iloilo Airport. From the airport, the UPV Miagao Campus can be reached through public transport (*e.g.* van, bus, local jeepneys) or taxi (which requires negotiated prices). The airport is about 20-40 min to Iloilo City. Miagao is about 60-90 minutes by car/bus/jeepney/taxi from Iloilo City.

#### **(3.5) Insurance**

UPV does not provide insurance for accidents and other losses. Students are encouraged to

get insurance from private insurance companies or as recommended by their assigned university.

#### **(4) Life in UPV and Iloilo**

##### **(4.1) University of the Philippines Visayas (UPV) and Miagao, Iloilo**

UP Visayas is located in the town of Miagao, which is situated 42 km south of Iloilo City (in western central Philippines). The campus is located along the shores of southern Iloilo. The College of Fisheries and Ocean Sciences (CFOS) is the flagship college of the University of the Philippines Visayas. The CFOS has been declared as a Center of Excellence for fisheries education in the Philippines. Aside from the BS in Fisheries and PhD in Fisheries, the CFOS presently offers six graduate courses: 1) MS in Fisheries major in Fisheries Biology, 2) MS in Fisheries major in Fish Processing Technology, 3) MS in Aquaculture, 4) MS in Ocean Sciences, 5) Master of Marine Affairs, and the 6) Professional Masters in Tropical Marine Ecosystems Management (Marine Protected Areas Management).

##### **(4.2) Seasons**

Climate in the Philippines is normally dry (in February – April) and rainy (May – October). Weather is hot (maximum 32-35°C) in March to September. It is cooler (maximum 28-32°C) in November to February. Typhoons come in June to early December.

##### **(4.3) Accommodation**

UPV has dormitory facilities for both undergraduate and graduate students. Rooms are often shared with 3 other students. Dormitory rate is about US\$8 per month, excluding electricity costs. Because room availability in the Graduate Hall (Dormitory) is limited, it is suggested that students who want to stay in this dormitory should apply before the start of classes. It is recommended that students coordinate with their UPV Faculty Adviser or ILP Coordinator so that reservations could be made in advance.

Boarding houses are available outside the campus. These boarding houses are about 0.25 to 2 km from the campus and are usually accessible by foot or by local transport (tricycle; one-way fare is about US\$ 0.20). Boarding house rates range from US\$ 10 to 150 per month, depending on the facilities available. Electricity, internet, water rates may not be included in the cost. If a student wishes to stay in these boarding houses, UPV's Office of Student Affairs provides a list of accredited boarding houses that are safe and secure.

##### **(4.4) Cost of Living**

The UPV campus has two student canteens. A meal at the University canteen would normally cost about US\$ 1-2. Meals outside the campus and in Iloilo City may range from US\$ 2-5 per meal per person. Estimated cost of living is about US\$ 200-400 per month depending on the lifestyle of the individual student.

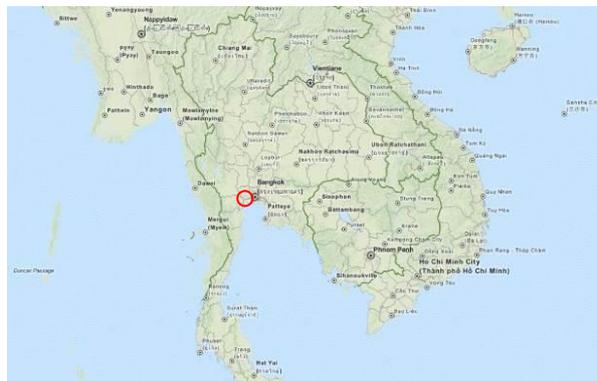
##### **(4.5) Attention to class participants**

UPV does not prescribe school uniforms (except for medical courses). In classes where laboratory experiments are performed, they are required to use laboratory gowns and other protective garments. When doing field work, suitable clothing is prescribed, especially when doing community work. If students are doing plenty of field work and will be staying for a longer period, it is the best if they take vaccines for some mosquito-borne diseases or students are advised to bring mosquito repellants.

## Faculty of Fisheries, Kasetsart University, Thailand

### (1) Procedures at your university for taking subjects offered by Kasetsart University

Students who enroll the International Linkage University Program (ILP) can select subjects offered by Kasetsart University. Before registration, the ILP students who wish to take any subject offered by Kasetsart University are required to discuss with their supervisors and notify the coordinator of ILP in their home university for more details then inform the coordinator of ILP of Kasetsart University at least 45 days before for management purposes. The outlines of the subject, the professors in charge and periods of the subjects will be sent to ILP student before arriving to Kasetsart University.



### (2) Recommended study pattern at Kasetsart University

Kasetsart University academic year is divided into two semesters of 15 weeks each. The first semester is from August to December and the second is from January to May. If the ILP students design to take the courses at Kasetsart University for at least 5 months in any semester, they are recommended to take 2-3 subjects which can obtain 6-9 credits (one credit hour is equal to 1 hour of lecture a week or 2-3 hours a week of practice) and they can conduct their researches under supervision at the laboratory or in the field. If the ILP students intend to take the intensive course, they are recommended to contact the ILP coordinator at their home university for cooperative planning.

### (3) Information about study at Kasetsart University

#### (3.1) Scholarship and supports

Students who need to apply for a scholarship should contact early the person in charge in their home university. This information can be obtained in the assigned university in advance.

#### (3.2) Language for education

The language used for education is English, however, prior learning of Thai language promotes the understanding of people, custom and convenience for communication in Thailand.

#### (3.3) Arrangements to enter Thailand

The issuance of visas is different depending on countries where visitors come from and the period of stay. The students are required to communicate with the persons in charge of this matter at their home university.

#### (3.4) Travel: transportation to Kasetsart University

If students arrive at the Suvarnabhumi International Airport, there are two ways from the airport to Kasetsart University.

##### a. Airport Public Taxi or Cap Service

Registered taxi is available at the platform of passenger terminal on the 1st floor (near Gate 4 and Gate 7). The registration fee of THB 50 is charged in addition to the normal taxi fare. It usually takes 45 to 90 minutes from the Suvarnabhumi Airport to Kasetsart University depending on the traffic. If you take the highway, the toll fee will cost you THB



45 to 70 depending on the route. Totally, this should be around THB 500 per trip depending on the traffic.

b. Airport Rail Link

Students can take the Airport Rail Link (city line) at the Suvarnabhumi Airport Station, located at the basement of passenger terminal building. At Phaya Thai Station, change to Sky Train heading to Mochit Station.

At Mochit Station, take a taxi straight to Kasetsart University with the fare around THB 150. More information on public Sky Train and railway services can be found at these links:

<http://airportrailink.railway.co.th/en/> and

<http://www.bts.co.th/customer/en/>.

If students arrive at Don Mueng International Airport, the Airport Public Taxi or Cap Service is the best way. Registered taxi is available at the platform of passenger terminal. The registration fee of THB 50 is charged in addition to the normal taxi fare. It usually takes 30-45 minutes from the Don Mueng Airport to Kasetsart University depending on the traffic. Totally, this should be around THB 250 per trip depending on the traffic.

### **(3.5) Insurance**

Kasetsart University does not guarantee accidents and other losses, which are not imputable to this university, whether they are related to education or not. Students have to join a private insurance by themselves, or as recommended by their home university before leaving. However, the university provide infirmary for students and the building is nearby the International Student Dormitory.

## **(4) Life in Kasetsart University**

### **(4.1) Faculty of Fisheries, Kasetsart University**

Kasetsart University (or Maha Witthayalai Kasetsat), the first agricultural public university in Thailand since 1943, has operated the subject areas to cover science, health science, veterinary medicine, arts, social sciences, humanities, education, engineering, and architecture. Kasetsart University has four campuses throughout Thailand which consist of 28 faculties including 2 colleges and 2 institutions offering 373 teaching courses and 38 programs. The enrollment is over 58,000, placing Kasetsart among the top largest universities in Thailand. Bang Khen Campus is the original and main campus (area of 135 hectares) situated in the lower part of the northern zone of Bangkok around 6 kilometers distant from Don Mueang International Airport.

Faculty of Fisheries was established as one of the first four faculties of Kasetsart University in 1943. Five departments, including Aquaculture, Fishery Biology, Fishery Management, Fishery Product and Marine Science, were organized to fulfill the knowledge of fishery. We pioneered fisheries degree programs both undergraduate and postgraduate levels well-known in Thailand and serve more than 2,500 students a year. The international undergraduate and postgraduate programs are offered to provide students with knowledge and research base to learn integrated fisheries and aquatic science. There are four Fisheries Research Stations (FRS) in the provinces strategically allocated to support learning, training

and researches in different fields; namely Sriracha FRS in Chonburi Province, focussing on mussel culture, larval feed, marine environment and ecology and fishing technology, Klongwan FRS in Prachuab Khirikhan Province, on hatchery and intensive culture of prawns, crabs and sea bass and mangrove ecology, Kamphaengsan FRS in Nakhon Pathom Province, on freshwater ecology and aquaculture, and Samutsongkhram FRS in Samutsongkhram Province, on hatchery, coastal intensive aquaculture and mudflat/mangrove ecology, together with Andaman Coastal Research Center for Development in Ranong Province. For studying, buildings and facilities are located in mainly Bangkok (Bangkok) and also distributed in Kamphaengsaen Campus including the research stations outside the campuses.

#### **(4.2) Accommodation**

Kasetsart University provides the International student dormitory located at the center of university. The accommodation fee is THB 4,000-6,000 per month depending on the room type. The water is free but the electricity will be THB 7 per unit used. Air condition, wifi and washing machine are provided.

#### **(4.3) Cost of Living**

The cost of living depends on the needs of the life style of the individual student. Estimated costs of living is about THB 7,000-10,000 per month, not including accommodation. The payment for lunch in the university's cafeteria is around THB 50. Many types of food are provided including Muslim food and prayer room.

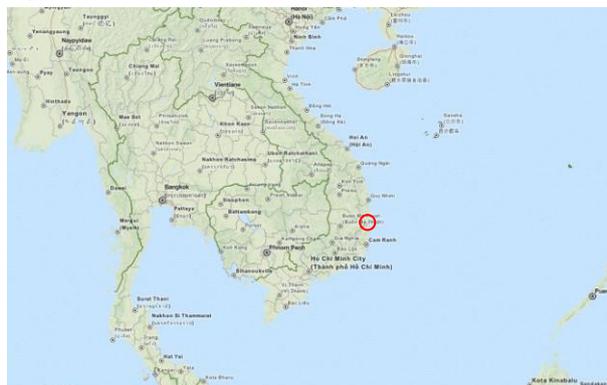
#### **(4.4) Attention to class participants**

All undergraduate students are required to wear KU uniforms in all official events, activities and during classes. Graduate students do not need to wear a uniform but please be advised to dress modestly when you come to your class. Sleeveless tops, short pants and skirts are inappropriate outfits inside the campus.

## Faculty of Graduate Studies, Nha Trang University (NTU), Vietnam

### (1) Procedures for taking subjects offered by NTU

Candidates who have enrolled in the International Linkage University (ILP) program at Nha Trang University (NTU) need to follow the procedures published on the NTU website. Prior to the start of each semester, NTU will announce the subjects to be offered and any relevant information related to students' learning (i.e. Lecturers, schedules, syllabi etc). This announcement will be posted on the NTU website and sent to the program coordinators at each partner university in the ILP network. Students who wish to take any subjects are required to notify the ILP coordinators at NTU for confirmation. During the registration process, before making a decision, students are recommended to contact the person in charge of each particular subject for direct consultation.



### (2) Recommended study pattern at NTU

The academic year at NTU starts in September. The first semester is from September to January, the second semester is from March to July. For Vietnamese students, an entrance test is compulsory. For foreign students, the national entrance test is not required. Instead, a specialized committee will review their applications. International candidates can apply for admission to the NTU Master's degree programs if having satisfactorily completed a Bachelor's degree from a foreign university or college that is recognized by the Ministry of Education (MOET), or have an equivalent education level. Additionally, foreign candidates must be fluent in English (speaking, reading, writing, and listening). A minimum of TOEFL iBT 46 or IELTS 5.0 is required.

### (3) Information about study at NTU

Established since 1959, Nha Trang University is one of the best choices for students in Vietnam, especially for studies in fisheries. Our Campus overlooks Vietnam's most beautiful bay – Nha Trang Bay. With more than half a century of history, Nha Trang University has become a prestigious multi-disciplinary and multi-level institution with a strong foundation of fisheries and aquaculture. It has been and continues to be a leading university in the field of fisheries and aquaculture science of the nation, playing a significant role in driving the development of marine economy in Vietnam as well as generating the necessary human resources for other sectors.

Nha Trang University is one of the first 20 higher education institutions of Vietnam that were accredited by the National Quality Accreditation Council. Currently Nha Trang University is offering five doctoral programs, 12 master's degrees, 29 undergraduate majors, 15 associate degree programs and 15 level-transfer programs. It has a consistent enrolment of more than 3,500 new students annually. The total number of students is approximately 20,000. The university now has a staff body of over 700 members with over 100 doctors and 300 masters, among those over 40% obtained their degrees in developed countries. The school constantly expands the scale of training, upgrades infrastructure, improves innovation programs, updates teaching and learning methods to become an applied oriented university, and ultimately a research oriented university in the future.

### **(3.1) Scholarship and supports**

Foreign students who enroll in the ILP program at NTU are eligible to apply for scholarships offered by the university. Request for specific information can be made to the Department of External Cooperation.

Foreign students might be eligible to obtain Vietnamese Government Scholarships according to specific agreement between the Government of Vietnam and its Partners. Scholarship applications can be accessed on the website: <http://vied.vn/index.php?lang=vn#>, or contact the Department of External Cooperation for further assistance.



### **(3.2) Language for education**

For ILP program students, English is the language used for the entire program. However, learning basic Vietnamese could be an advantage when communicating with local people.

### **(3.3) Arrangements to enter Vietnam (Nha Trang)**

To enter Vietnam (Nha Trang city), a student visa (DH type) is required. Prospective students should apply for a visa at a Vietnamese Embassy/nearest Embassies or Consulate in their home country before coming to Vietnam.

To get DH type visa, a student is required to provide Nha Trang University staff with the information documented in their passport. Upon receipt of the application form, NTU will make a request to the Department of Immigration of the Ministry of Public Security to issue a visa code. The Department of Immigration will fax a visa code to the Vietnamese Embassies. When this is complete, students may go to the Embassy of Vietnam in their country to apply for a visa.

Please contact the Department of External Affairs ([dea@ntu.edu.vn](mailto:dea@ntu.edu.vn)) to get an application form and further assistance.

### **(3.4) Travel to NTU**

NTU is located in Nha Trang city, the capital city of Khanh Hoa province. Nha Trang is 1,250 km from Hanoi and 450 km from Ho Chi Minh city. Students can reach Nha Trang either by planes (Cam Ranh International Airport), train, bus or car. There are direct flights to Vietnam from many countries including Japan, Thailand, Indonesia, Malaysia, and the Philippines. Shuttle buses run every 30 minutes from Cam Ranh International Airport to downtown of Nha Trang city, and it takes about 45 minutes to the city centre.

### **(3.5) Insurance**

The University does not provide students with insurance. Securing personal insurance is advised. The University will help students to purchase personal insurance during their stay in Vietnam.

## **(4) Life in Nha Trang city**

### **(4.1) Seasons**

Overall, Nha Trang city has a tropical climate. The weather is mild year-round with the average temperature 25°C to 26°C. There are 2 seasons here, a cool wet season and a long dry

season. The wet season usually starts in September and ends in December. The rain isn't too heavy and usually lasts a few hours a day. Thanks to the favorable geographical location with lots of surrounding islands, there are few storms and no natural disasters. Overall, Nha Trang city has favorable climatic conditions to live in and travel to.

#### **(4.2) Accommodation**

NTU has 10 dormitory buildings with 1,000 rooms, housing over 5,000 students. All dormitories are well-equipped and located inside the main campus. Students can reach dormitories by walking from any of the buildings on campus. The campus also has subsidiary facilities such as cafeterias, laundry rooms, study room, indoor and outdoor stadium and gymnasium, a table tennis room, and common rooms, Wifi and Internet are provided freely in all dormitories and buildings in campus.

The University also dormitory specifically for foreign students. The dormitory rate is approximately 150 USD per month, excluding utilities. Students can stay alone or share with another students. Because room availability in the dormitory for foreign students is limited, it is suggested that students who want to stay in a dormitory apply before the commencement of classes.

#### **(4.3) Cost of living**

Besides the cost of the above accommodation, daily meals cost about 1.5 USD/meal. Students can walk or take a bus to the university at a cost of around 50 cents per fare. Expenses for documents such as books, notebooks and handouts are usually spent in the beginning of each semester (around 50 USD). Generally, personal expenses range from 200-400 USD per month.

#### **(4.4) Attention to class participants**

All students have to obey the regulations issued by Nha Trang University. Students are free to wear clothes but are required to dress conservatively in class or while in campus. Students are advised to return to their dormitory before 11 PM as the main gate will be locked at that time. In the Dormitory for foreign students, a fully equipped shared kitchen is available, and as such, students can buy foods to cook for themselves.

Appendix 1 List of faculty members of Member Schools (2018)

**School of Fisheries and Marine Science, Sam Ratulangi University, Indonesia**

Position	Name (Family, First, Middle)	Research Field	Supervisor rank
Professor	BERHIMPON Siegfried	Food processing technology	Main Supervisor
Professor	GERUNG Grevo S.	Marine botany	Main Supervisor
Professor	KALIGIS Georis Judri Fontje	Marine biology	Main Supervisor
Professor	KEPEL Rene Charles	Marine botany	Main Supervisor
Professor	KUSEN Janny D.	Marine biology	Main Supervisor
Professor	LASUT Markus Talintukan	Coastal management	Main Supervisor
Professor	MASENGI Kawilarang Warouw Alex	Vessel technology	Main Supervisor
Professor	MINGKID Winda Mercedes	Aquaculture	Main Supervisor
Professor	SUWETJA Ketut I.	Food processing technology	Main Supervisor
Professor	ROMPAS Rizald Max	Toxicology and pharmaceutical	Main Supervisor
Professor	MANGINDAAN Remy E.P.	Marine natural product	Main Supervisor
Professor	MANTJORO Eddy	Fisheries business	Main Supervisor
Professor	MANTIRI Desy M.H.	Toxicology and pharmaceutical	Main Supervisor
Professor	RUMENGAN Inneke F.M.	Biotechnology	Main Supervisor
Professor	SITANGGANG Effendi Pangihutan	Geomorphology	Main Supervisor
Lecturer	BUDIMAN Johnny	Fishing technology	Co-Supervisor
Lecturer	IJONG Gruber Frans	Fish processing technology	Co-Supervisor
Lecturer	LUMENTA Cysca	Fish nutrition	Co-Supervisor
Lecturer	LUMINGAS Lawrence J.L.	Marine biology	Co-Supervisor
Lecturer	MAKAPEDUA Daisy Monica	Biotechnology	Co-Supervisor
Lecturer	MAMANGKEY N. Gustaf. F.	Malacology	Co-Supervisor
Lecturer	OMPI Medy	Marine reptiles	Co-Supervisor
Lecturer	ONIBALA Hens	Food processing technology	Co-Supervisor
Lecturer	REPI Emil	Fishing technology	Co-Supervisor
Lecturer	SUMILAT Deiske Adeliene	Toxicology and pharmaceutical	Co-Supervisor
Lecturer	TUMBOL Reiny Antonetha	Biotechnology	Co-Supervisor
Lecturer	WAGEY Billy Theodorus	Marine botany	Co-Supervisor
Lecturer	WULUR Stenly	Biotechnology	Co-Supervisor
Assistant professor	MONTOLALU Roike Iwan	Food processing technology	Co-Supervisor
Assistant professor	ROEROE Kakaskasen Andreas	Coralogy	Co-Supervisor
Assistant professor	UNDAP Suzanne Lydia	Fish toxicity	Co-Supervisor

**School of Fisheries, Kagoshima University, Japan**

Position	Name (Family, First, Middle)	Research Field	Supervisor rank
Professor	KAMINISHI, Yoshio	Marine Biotechnology (gene technology, genetic discrimination)	Main supervisor
Professor	KIMURA, Ikuo	Seafood Processing and Food Biochemistry (protein food chemistry)	Main supervisor
Professor	KOSHIO, Shunsuke	Aquatic Nutritional Physiology	Main supervisor
Professor	KOYAMA, Jiro	Environmental Pollution and Ecotoxicology (PAHs, pesticides)	Main supervisor
Professor	MAEDA, Hiroto	Marine Microbiology (environmental microbiology, red tide)	Main supervisor
Professor	MASUDA, Yasuji	Fisheries biology and Fish population dynamics	Main supervisor
Professor	MOTOMURA, Hiroyuki	Ichthyology (taxonomy, systematics, and biogeography)	Main supervisor
Professor	NISHI, Ryuichiro	Marine Environmental Science	Main supervisor
Professor	OHTOMI, Jun	Fisheries Biology (reproduction, growth, field research, crustacean)	Main supervisor
Professor	SAKUMA, Yoshiaki	Political Economics (community-based fishery management)	Main supervisor
Professor	SANO, Masaki	Fisheries Economics	Main supervisor
Professor	SHIGEHIRO, Ritsuo	Fishing Vessel Technology (ship safety in waves and maneuverability)	Main supervisor
Professor	SUZUKI, Hiroshi	Carcinology (field work, ecological and taxonomic approach)	Main supervisor
Professor	YAMAMOTO, Atsushi	Fish Pathology (diagnosis, prophylaxis and ecology of pathogens )	Main supervisor
Associate Professor	ANRAKU, Kazuhiko	Behavioral Physiology (sensory system function, behavior mechanism)	Main supervisor
Associate Professor	EBATA, Keigo	Fishing Gear Technology (model gear experiment, hydrodynamic force)	Main supervisor
Associate Professor	ISHIKAWA, Manabu	Aquatic Nutritional Chemistry (nutrient requirement, feed analysis)	Main supervisor
Associate Professor	ISHIZAKI, Munechika	Fisheries Engineering	Main supervisor
Associate Professor	KUME, Gen	Ichthyology (life history and ecology of freshwater and marine fish)	Main supervisor
Associate Professor	KOBARI, Toru	Biological Oceanography (zooplankton biology, ecology & production)	Main supervisor
Associate Professor	KOMATSU, Masaharu	Functional Food Safety Science (environmental hygiene, marine toxin)	Main supervisor
Associate Professor	KOTANI, Tomonari	Aquaculture (larval rearing, live feed, enrichment, behavior)	Main supervisor
Associate Professor	NAKAMURA, Hirohiko	Physical Oceanography (ocean dynamics, data analysis methods)	Main supervisor
Associate Professor	NISHI, Takaaki	Fisheries Engineering (magnetic sense, survey, trial manufacture)	Main supervisor
Associate Professor	SHINDO, Jo	Food Processing and Utilization of Fish Resources	Main supervisor
Associate Professor	SHIOZAKI, Kazuhiro	Biochemistry, Glycobiology (application for human health)	Main supervisor
Associate Professor	SHONO, Hiroshi	Fish Population Dynamics (fish stock management, biostatistics)	Main supervisor
Associate Professor	SUGIYAMA, Yasumasa	Marine Natural Products Chemistry	Main supervisor
Associate Professor	TERADA, Ryuta	Marine Botany	Main supervisor
Associate Professor	TORII, Takashi	Fisheries Economics (management, fisheries cooperative association)	Main supervisor
Associate Professor	UNO, Seiichi	Environmental Chemistry (GC/MS, LC/MS, Bioconcentration)	Main supervisor
Associate Professor	VAZQUEZ ARCHDALE, Miguel F.	Fishing Technology	Main supervisor

Associate Professor	YAMAMOTO, Tomoko	Animal Ecology (benthic animal, invertebrate, coastal area)	Main supervisor
Associate Professor	YAMANAKA, Yuichi	Fisheries Engineering (acoustic analysis, marine resource)	Main supervisor
Associate Professor	YOSHIKAWA, Takeshi	Marine Microbiology (harmful algal blooms, bioremediation)	Main supervisor
Assistant Professor	ARAKI, Kyosuke	Fish Immunology (host-pathogen interaction, vaccine development)	Main supervisor
Assistant Professor	KOKUSHI, Emiko	Aquatic ecotoxicology (monitoring of pollutants, toxicity test )	Co-supervisor
Assistant Professor	KOMEYAMA, Kazuyoshi	Fish Ethology (fish behavioural measurement, bio-logging science)	Co-supervisor
Assistant Professor	KUGA, Mizuho	Fisheries Marketing (marketing, marine product processing industry)	Co-supervisor
Assistant Professor	NISHINA, Ayako	Physical Oceanography	Co-supervisor
Assistant Professor	SASAKI, Takafumi	Fisheries Economics	Co-supervisor
Assistant Professor	SUMOTO, Hirofumi	Fisheries Engineering	Co-supervisor
Assistant Professor	YOKOYAMA, Saichiro	Fish Feed and Nutrition (nutritional physiology and immunology)	Co-supervisor

#### School of Fisheries and Aquaculture Sciences, Malaysia University of Terengganu

Position	Name (Family, First, Middle)	Research Field	Supervisor rank
Emeritus Professor	AMBAK, Mohd Azmi	Fish management, fish population dynamics	Main Supervisor
Emeritus Professor	MOHD SHAROUM, Faizah	Fish parasitology and disease, aquaculture	Main Supervisor
Professor	ABD GAFFAR, Mazlan	Fishery sciences, ichthyology	Main Supervisor
Professor	ABD WAHID, Mohd Effendy	Aquatic animal health, biotechnology	Main Supervisor
Professor	HASSAN, Anuar	Fish breeding technology, aquaculture	Main Supervisor
Professor	AMBOK BOLONG, Abol Munafi	Hatchery technology, fish breeding	Main Supervisor
Professor	MUSA, Najiah	Aquatic animal health, parasitology	Main Supervisor
Lecturer	HIL, Yii Siang	Water quality management, chemical oceanography	Main Supervisor
Lecturer	ARIFFIN, Nur Asma	Fish genomics, biotechnology	Main Supervisor
Lecturer	MD. SHERIFF, Shahreza	Fish genetics, biotechnology	Main Supervisor
Lecturer	MUSA, Nadirah	Fish physiology, fish endocrinology	Main Supervisor
Lecturer	ABDULLAH, Muhd Danish Daniel	Microbiology and molecular biology	Main Supervisor
Lecturer	WAN HUSSIN, Wan Mohd Rauhan	Aquatic ecology, benthic ecology	Co-supervisor
Lecturer	MOK, Wen Jye	Aquatic food safety	Co-supervisor
Lecturer	MAT PIAH, Rumeaida	Fish population dynamic, fish ecology	Co-supervisor
Lecturer	SEAH, Ying Giat	Fish taxonomy, fish ecology	Co-supervisor
Lecturer	KARIM, Nurul Ulfah	Fisheries post-harvest, fish processing	Co-supervisor
Lecturer	ZAINATHAN, Sandra Catherine	Aquatic virology, fish health	Co-supervisor
Lecturer	MAT NOORDIN, Noordiyana	Aquaculture nutrition, fish breeding	Co-supervisor
Lecturer	SYED JAMIL FADAAK, Sharifah Noor Emilia	Aquatic microbial ecology	Co-supervisor

Lecturer	TAN, Min Pau	Molecular ecology, fish biotechnology	Co-supervisor
Lecturer	MOHTAR, Nor Fazliyana	Fish biochemistry and processing	Co-supervisor
Lecturer	HARUN, Nor Omaima	Zoology (immunology)	Co-supervisor
Lecturer	SYED MUHAMMAD, Sharifah Rahmah	Nutrition and seed production	Co-supervisor
Lecturer	Ivan KOH, Chong Chu	Aquaculture and seed production	Co-supervisor
Lecturer	MAT JAAFAR, Tun Nurul Aimi	Population genetic, molecular biology	Co-supervisor
Lecturer	KHATOON, Helena	Microalgae biotechnology, aquaculture	Co-supervisor
Lecturer	KADER, Md Abdul	Aquatic animal nutrition	Co-supervisor
Lecturer	ASADUZZAMAN, Md	Aquaculture systems and biotechnology	Co-supervisor
Lecturer	IEHATA, Shumpei	Aquaculture and marine microbiology	Co-supervisor
Lecturer	ARIPIN, Siti Ariza	Aquaculture, fish reproductive physiology	Co-supervisor

#### **College of Fisheries and Ocean Sciences, University of the Philippines Visayas**

Position	Name (Family, First, Middle)	Research Field	Supervisor rank
Professor	BABARAN, Ricardo P.	Fishing gear technology, fisheries resource management	Main supervisor
Professor	BAYLON, Carlos C.	Soil and water quality, bivalve culture	Main supervisor
Professor	PERALTA, Jose P.	Food engineering, fish handling and processing	Main supervisor
Professor	SACLAUSO, Crispino A.	Aquaculture, fish ecology	Main supervisor
Professor	SERRANO, Augusto E. Jr	Fisheries nutritional biochemistry/physiology	Main supervisor
Associate Professor	AÑASCO, Nathaniel C.	Marine environmental chemistry	Main supervisor
Associate Professor	CATEDRILLA, Liah C.	Fisheries extension and development communication	Main supervisor
Associate Professor	NILLOS, Mae Grace G.	Environmental chemistry, aquatic toxicology	Main supervisor
Associate Professor	QUINITIO, Gerald F.	Reproductive biology, larval physiology	Main supervisor
Associate Professor	TRAIKALGAR, Rex Ferdinand M.	Nutritional immunology	Main supervisor
Assistant Professor	DE LEON, Sheila Mae S.	Benthic environments, sediment enzymology	Main supervisor
Assistant Professor	MONTECLARO, Harold M.	Fish sensory biology and behavior	Main supervisor
Assistant Professor	NUÑAL, Sharon N.	Microbiology ecology, bioremediation	Main supervisor
Assistant Professor	PEDROSO, Fiona L.	Fish endocrinology	Main supervisor

#### **School of Fisheries, Kasetsart University, Thailand**

Position	Name (Family, First, Middle)	Research Field	Supervisor rank
Professor	NA-NAKORN, Uthairat	Population genetics of aquatic animals	Main supervisor
Associate Professor	AREECHON, Nontawith	Diseases, immunology of aquatic animals	Main supervisor
Associate Professor	CHIRAPART, Anong	Phycology	Main supervisor

Associate Professor	DARBANANDANA, Thanitha	Fishery biology and management	Main supervisor
Associate Professor	JINTASATAPORN, Orapint	Aquatic animal nutrition	Main supervisor
Associate Professor	MEKSUMPUN, Charumas	Ecology of sediment, aquatic environment	Main supervisor
Associate Professor	MEKSUMPUN, Shettapong	Water quality, red tide mechanism	Main supervisor
Associate Professor	POOMPUANG, Supawadee	Aquatic animal genomics	Main supervisor
Associate Professor	TAPARHUDEE, Wara	Shrimp culture, aquaculture engineering	Main supervisor
Associate Professor	VEERAVAITAYA, Narong	Wetland ecology, natural assessment	Main supervisor
Associate Professor	WORAWATTANAMATEEKUL, Wanchai	Fish oil, marine polysaccharide, by-product technology	Main supervisor
Assistant Professor	ANONGPONYOSKUN, Monton	Physical oceanography	Main supervisor
Assistant Professor	BOONPRAB, Kangsadan	Fisheries microbiology, food safety	Main supervisor
Assistant Professor	BOUTSON, Anukorn	Marine environment, fishery oceanography	Main supervisor
Assistant Professor	CHUCHIRD, Niti	Molecular biotechnology, disease of aquatic animals	Main supervisor
Assistant Professor	KAEWNERN, Methee	Aquatic resources management, GIS and remote sensing	Main supervisor
Assistant Professor	KLAYPRADIT, Wanwimol	Fish processing, lipid chemistry	Main supervisor
Assistant Professor	MEUNPOL, Oraporn	Breeding & reproduction, hormones, physiology of aquatic fauna	Main supervisor
Assistant Professor	MUSIKASINTHORN, Prachya	Taxonomy, biogeography of freshwater fishes	Main supervisor
Assistant Professor	POUNGCHAREAN, Santi	Fish reproductive and early life histories, fish ecology	Main supervisor
Assistant Professor	RATANA ARPORN, Pattama	Food processing, food engineering, quality control	Main supervisor
Assistant Professor	RUNGLERDKRIANGKRAI, Jiraporn	Fish processing, protein chemistry	Main supervisor
Assistant Professor	SALAENOI, Jintana	Natural pigments, marine biotechnology	Main supervisor
Assistant Professor	SUKHSANGCHAN, Charuay	Fishing gear technology	Main supervisor
Assistant Professor	THAMRONG NAWASAWAT, Thon	Coral reef research and management	Main supervisor
Assistant Professor	TRISAK, Jiraporn	Fish population dynamics	Main supervisor
Assistant Professor	TUNKIJJANUKIJ, Suriyan	Marine biotechnology, marine bio-products	Main supervisor
Assistant Professor	WAIPRIB, Yaowapha	Waste utilization food, biotechnology food safety	Main supervisor
Assistant Professor	WILAI PUN, Pongtep	Food microbiology, biotechnology	Main supervisor
Assistant Professor	WORACHANANANT, Suchai	Coastal management	Main supervisor
Assistant Professor	YOONPUNDH, Ruangvit	Breeding and nursing, aquaculture system	Main supervisor
Lecturer	DULYAPURK, Varunthat	Environmental and natural recourse economics	Main supervisor
Lecturer	HINSUI, Jirapa	Waste utilization seafood enzyme	Main supervisor
Lecturer	JITCHUM, Pailin	Planktonology	Main supervisor
Lecturer	MANEEROTE, Jirawan	Food engineering	Main supervisor
Lecturer	MONTHUM, Yaowaluk	Marine phytoplankton, marine meiobenthos	Main supervisor
Lecturer	MOOKDASANIT, Juta	Aquatic food flavor, fishery products analysis	Main supervisor

Lecturer	NETDHARNN, Urairathr	Fishery statistics and research methodology	Main supervisor
Lecturer	PANSAWAT, Nantipa	Fish processing fishery product development	Main supervisor
Lecturer	PRAIBOON, Jantana	Algal biotechnology, algal culture	Main supervisor
Lecturer	SATAPORNVANIT, Kriengkrai	Aquatic toxicology	Main supervisor
Lecturer	SRISAPOOME, Prapansak	Fish and shrimp diseases, molecular immunology	Main supervisor
Lecturer	WANGVORALAK, Sansanee	Coastal zone management	Main supervisor
Lecturer	WUDTISIN, Idsariya	Sediment quality management in aquaculture	Main supervisor

#### Faculty of Graduate Studies, Nha Trang University, Vietnam

Position	Name (Family, First, Middle)	Research Field	Supervisor rank
Assistant Professor	NGO, Nghia Dang	Marine bioactive compounds	Main supervisor
Assistant Professor	NGUYEN, Tuan Anh	Aquatic processing technology	Main supervisor
Lecturer	PHAM, Hung Quoc	Aquaculture	Main supervisor
Lecturer	LE, Hoang Minh	Reproductive physiology and endocrinology	Main supervisor
Lecturer	NGUYEN, Minh Van	Genetics and selective breeding	Main supervisor
Lecturer	LE, Tuan Anh	Fish nutrition and aqua-feeds	Main supervisor
Lecturer	NGUYEN, Anh Lam	Fisheries resources	Main supervisor
Lecturer	LUONG, Trung Luong	Aquaculture	Main supervisor
Lecturer	DINH, Khuong Van	Climate change and ecotoxicology	Main supervisor
Lecturer	MAI, Nga.T.Tuyet	Food technology	Main supervisor
Lecturer	HUYNH, Bao Nguyen Duy	Food technology	Main supervisor
Lecturer	NGUYEN, Anh Thuan	Food quality and safety	Main supervisor
Lecturer	NGUYEN, Huong.T.My	Aquatic product processing technology	Main supervisor
Lecturer	NGUYEN, Han The	Bioactive compounds from natural resources.	Main supervisor
Lecturer	DANG, Binh Thuy	Biotechnology	Main supervisor
Lecturer	NGUYEN, Duy Van	Applied microbiology	Main supervisor
Lecturer	NGUYEN, Long Van	Marine biodiversity	Main supervisor
Lecturer	QUACH, Ngoc.T.Khanh	Fisheries economics and management	Main supervisor
Lecturer	PHAM, Thuy.T.Thanh	Fisheries economics and management	Main supervisor
Lecturer	HO, Tuu Huy	Fisheries economics and management	Main supervisor
Lecturer	LE, Long Kim	Fisheries economics and management	Main supervisor
Lecturer	NGUYEN, Duy Ngoc	Fisheries economics and Management	Main supervisor

## Appendix 2 Subjects offered by Member Schools (2018)

### Faculty of Fisheries and Marine Science, Sam Ratulangi University, Indonesia

Subjects	Semesters	Credits	Hours, Methods	Professor
Bioecology of Tropical Waters	1	3	32h Lec	Prof. KALIGIS Fontje
Aquatic & Fisheries Resources Management	1	3	32h Lec	Prof. KEPEL Rene Ch.
Fisheries Vessel Practice	1	1	32h Field	Dr. BUDIMAN Johnny
Technology of Capture Fisheries	1	3	32h Lec	Dr. BUDIMAN Johnny
Fishing Gear Technology	1	3	32h Lec	Dr. BUDIMAN Johnny
Marine Food Resources	1	3	32h Lec	Prof. BERHIMPON S.
Marine Pollution and the Health of Marine Life	2	3	32h Lec	Dr. UNDAK Suzanne L.
Tropical Marine Biodiversity	2	3	32h Lec	Prof. GERUNG Grevo S.
Tropical Aquaculture	2	3	32h Lec	Dr. TUMBOL Reiny A.
Marine Biopharmacy	2	3	32h Lec	Prof. MANTIRI Desy M.H.
Marine Biotechnology	2	3	32h Lec	Prof. RUMENGAN I.F.M.
Integrated Tropical Coastal Zone Management	2	3	32h Lec	Prof. LASUT Markus T.
12 subjects		34		

### School of Fisheries, Kagoshima University, Japan

Subjects	Semesters	Credits	Hours, Methods	Professor
Aquatic Sciences	S.S. Intensive	2	30 h Lec	Prof. H. Suzuki & others
Fishery Resource Sciences	S.S. Intensive	2	30 h Lec	Assoc. Prof. K. Anraku & others
Aquaculture	S.S. Intensive	2	30 h Lec	Prof. S. Koshio & others
Fishery Food Sciences	Quarter Ia	2	30 h Lec	Prof. T. Itakura & others
Fisheries Economics	Quarter Ia	2	30 h Lec	Prof. M. Sano & others
Conservation of Aquatic Environment	Quarter Ia	2	30 h Lec	Prof. J. Koyama & others
Fisheries and Fisheries Sciences	Quarter Ib	2	30 h Lec	Prof. M. Vasquez
Management of Tropical Fisheries	S.S. Intensive	2	30 h Lec	Dr. T. Matsuoka
Latest Analytical and Experimental Method (Chemistry)	S.S. Intensive	1	30 h Lab	Assoc. Prof. M. Ishikawa & others
Latest Analytical and Experimental Method (Biochemistry)	S.S. Intensive	1	30 h Lab	Assoc. Prof. M. Komatsu & others
Latest Analytical and Experimental Method (Basic Biology)	S.S. Intensive	1	30 h Lab	Prof. R. Terada & others
Latest Analytical and Experimental Method (Social Sciences)	Occasional	1	30 h Lab	Prof. Y. Sakuma & others
Latest Analytical and Experimental Methods (Open)	Occasional	1	30 h Lab	Host professor
On-board Training (Oceanographic observation)	Occasional	1	5 days or more	Capt. M. Uchiyama & Host prof.
On-board Training (Resources and measurement techniques)	Occasional	1	5 days or more	Capt. M. Uchiyama & Host prof.

Experimental On-board Training	Occasional	1	5 days or more	Capt. A. Habano & Host prof.
Tropical Fisheries (Intensive)	Quarter Ib	1	1 week	For Japanese students only
17 subjects		25		

#### School of Fisheries and Aquaculture Sciences, Malaysia University of Terengganu

Subjects	Semesters	Credits	Hours, Methods	Professor
Marine Pollution and Fisheries		3	28 h Lec & 30 h Lab	
Fishery Molecular Ecology		3	28 h Lec	
Fisheries Limnology and Oceanography		3	28 h Lec & 30 h Lab	
Sport and Game Fishing		3	28 h Lec & 30 h Lab	
Coral Reef Fisheries		3	28 h Lec & 30 h Lab	
Fisheries Bioinformatics		3	28 h Lec	
Habitat Replenishment Areas		3	28 h Lec & 30 h Lab	
Fisheries Post-harvest Technology		3	28 h Lec & 30 h Lab	
Biosecurity and Seafood Safety		3	28 h Lec & 30 h Lab	
Fisheries Biosystems		3	28 h Lec	
Fisheries Product Innovation		3	28 h Lec & 30 h Lab	
11 subjects		33		

#### College of Fisheries and Ocean Sciences, University of the Philippines Visayas

Subjects	Semesters	Credits	Hours, Methods	Professor
Advanced Aquatic Ecology	Sem. 1	3	48 h Lec	
Aquaculture Management	Sem. 1	4	32 h Lec & 96 h Lab	
Advances in Fish Nutrition	Sem. 2	3	48 h Lec	
Advances in Hatchery Management	Sem. 2	3	32 h Lec & 48 h Lab	
Fisheries Ecology	Sem. 2	3	32 h Lec & 48 h Lab	
Advanced Fishing Technology	Sem. 1	3	32 h Lec & 48 h Lab	
Shipboard Training	S.S.	0	2 weeks or more in field	
Low Temperature Preservation of Fish	Sem. 1	3	48 h Lec	
Fish Curing and Dehydration	Sem. 2	3	48 h Lec	
Thermal Processing of Fish	Sem. 1	2	32 h Lec	
Coastal Resources Assessment and Management	Trim. 2	3	48 h Lec	
Community-Based Coastal Resources Management	Trim. 3	3	48 h Lec	
Development Communication Management	Trim. 3	3	48 h Lec	

Special Topics	Sem. 1&2/SS	3	48 h Lec	
14 subjects		39		

### School of Fisheries, Kasetsart University, Thailand

Subjects	Semesters	Credits	Hours, Methods	Professor
Ecology of Sediment	1/intensive	3	45 h Lec	Assoc. Prof. C. Meksumpun
Marine Biology Diversity	1&2/intensive	3	45 h Lec	Assoc. Prof. C. Aryuthaka, Dr. N. Whanpetch and Dr. Y. Monthum
Coastal and Marine Fishery Management	1&2/intensive	3	45 h Lec	Asst. Prof. J. Trisak
Fishery Resources and Management	2/intensive	3	45 h Lec	Dr. S. Wangvoralak
Fishery Resource Economics	1&2/intensive	3	45 h Lec	Dr. V. Dulyapurk
Advanced Freshwater Aquaculture	2/intensive	3	45 h Lec	Dr. S. Ingthamjitr and Asst. Prof. R. Yoonpundh
Hormone in Aquaculture	1/intensive	3	45 h Lec	Asst. Prof. O. Meunpol
Application of Chemicals and Drugs in Aquaculture	2/intensive	3	45 h Lec	Assoc. Prof. N. Areechon
Responsible Fishing Technology	2/intensive	3	30 h Lec & 30 h Lab	Asst. Prof. A. Boutson and Assoc. Prof. T. Darbanandana
Diseases of Aquatic Animals	2/intensive	3	30 h Lec & 30 h Lab	Asst. Prof. N. Chuchird
Fishery Product Biotechnology	2/intensive	3	45 h Lec	Asst. Prof. Y. Waiprib
Food Additives in Fish and Fishery Products	1/intensive	3	45 h Lec	Asst. Prof. Y. Waiprib
Marine Biotoxins	intensive	3	45 h Lec	Asst. Prof. K. Boonprab
Food Safety and Quality Management Systems in Fish Processing Plant	2/intensive	3	30 h Lec & 45 h Lab	Asst. Prof. P. Wilaipun
Fishery Product Development	2/intensive	3	45 h Lec	Dr. N. Pansawat
Instrumentation Technique in Fishery Product Research	1&2/intensive	3	30 h Lec & 45 h Lab	Dr. J. Mookdasanit
System Analysis and Management in Fish Processing Industry	1&2/intensive	3	45 h Lec	Dr. J. Maneerote, Assoc. Prof. W. Worawattanmetheekul
Selected Topics in Fishery Science and Technology	1&2/intensive	1-3	45 h Lab	Host professor
18 subjects				

### Faculty of Graduate Studies, Nha Trang University, Vietnam

Subjects	Semesters	Credits	Hours, Methods	Professor
Developmental Biology for Aquatic Animals	Sem. 2	3	30 h Lec, 15 h Lab	Dr. Hung Q. PHAM
Reproductive Physiology and Endocrinology	Sem. 2	2	30 h Lec	Dr. Hoang M. LE

Fish Nutrition & Aqua-feeds	Sem. 2	3	30 h Lec, 15 h Lab	Dr. Tuan A. LE
Fish Stock Assessment	Sem. 2	2	30 h Lec	Dr. Anh L. NGUYEN
Ecology and Applications in Tropical Aquaculture: Environmental Friendly and Sustainable Perspective	S.S.	2	30 h Lec	Dr. Khuong V. DINH
Genetics in Aquaculture and Fisheries	Sem. 1	2	30 h Lec	Dr. Minh V. NGUYEN
Aquatic Raw Material Handling and Processing Technology	S.S.	2	30 h Lec	Dr. Nga T.Mai
Technology of traditional Aquatic Products	S.S.	2	30 h Lec	Dr. Huong M. NGUYEN
Risk Analysis in Agri-Food Chain	Sem. 2	3	45 h Lec	Dr. Anh T. NGUYEN
Bioactive Compounds from Marine Resources	Sem. 2	2	30 h Lec	Dr. Bao N.D. HUYNH
Marine Bioactive Compounds	Sem. 1	2	30 h Lec	Asst. Prof. Nghia N. DANG & others
Ecology and Climate Change	S.S.	2	30 h Lec	Dr. Binh T. DANG & other
Marine Biodiversity	Sem. 1	2	30 h Lec	Dr. Binh T.DANG & other
Probiotic Technology in Aquaculture and Food Production	Sem. 2	2	30 h Lec	Dr. Duy V. NGUYEN
Environmental and Natural Resource Economics	Sem. 2	2	30 h Lec	Dr. Ngoc T.K. QUACH & other
Coastal Zone Economics and Management	Sem. 2	2	30 h Lec	Dr. Ngoc T.K. QUACH & other
Fisheries Economics and Management	S.S.	2	30 h Lec	Dr. Long K. LE & other
Marine Resource Economics and Management	S.S.	2	30 h Lec	Dr. Long K. LE & other
Fisheries Marketing	Sem. 2	3	45 h Lec	Dr. Tuu H. HO
Marine Nutraceuticals and Functional Foods	Sem. 2	2	30 h Lec	Dr. Han The NGUYEN
20 subjects		38		