

Program Information

2019

2019 KOICA - PKNU Master's Degree Program in Fisheries Science

July 29, 2019 - December 20, 2020

Seongnam & Busan, Republic of Korea



Korea International Cooperation Agency



Graduate School of Global Fisheries
Pukyong National University

****Participants are strongly advised to thoroughly read and follow the provided instructions in the Program Information.****

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I . PROGRAM OVERVIEW

- ▣ **Program Title: KOICA – PKNU Master’s Degree Program in Fisheries Science**
(International Graduate Program of Fisheries Science, IGFS)
- ▣ **Duration**
 - **Stay duration: July 29, 2019 – December 20, 2020 (17 months study in Korea)**
During 17 months in PKNU, students are strongly recommended to complete all required academics and graduation requirements.
 - **Academic duration: September 1, 2019 – February 26, 2021 (18 months)**
In accordance to the university regulations, the certificate of Master’s Degree will be issued in February 2021.
- ▣ **Degree : Master of Fisheries Science**
(Graduation requirements: 1. Thesis type / 2. Credit type)
- ▣ **Objectives**
 - To train fisheries specialists on various fields of fisheries science and contribute to the development of fisheries industries of participating countries.
 - To facilitate cooperative relationships and expand networks between participating countries and Korea in the field of fisheries science
- ▣ **Training Institution**
 - **Institution:** Graduate School of Global Fisheries, Pukyong National University
 - **Website:** <http://gsgf-e.pknu.ac.kr>
- ▣ **Number of Participants: 20 Government Officials**
- ▣ **Language: English fluency that requires no translation**
- ▣ **Accommodations**
 - **KOICA International Cooperation Center (ICC)**
 - **Sejog Gwan 1 (Dormitory of Pukyong National University)**
 - The rooms are designed for single occupancy.
 - Each room is fully furnished with a desk, a bed, a wardrobe, a sink, a bathroom and electric appliances (a LCD television, a refrigerator and an air-conditioner).
 - It is unable to offer halal food in the dormitory cafeteria. Dormitory always offers eggs, fish and vegetables for Muslim participants.
 - It is prohibited to cook and to use electric heating appliances (cooker, heater, iron, kettle, etc.) in the room because of fire risk

II. PROGRAM CONTENTS

1. ACADEMIC SCHEDULE

A. REPARATORY SESSION: August, 2019

- Non-credit course to help students adjust themselves successfully to the program.
- Including orientation of fisheries sciences, learning primary subjects, fundamental experiments, assigning thesis advisor and thesis design, etc.

※ This preparatory session is useful for those who have not majored in Fisheries Sciences at undergraduate period, or have been away from academia for a long time.

B. REGULAR SEMESTER

- Quaternary semester system: 2019 fall semester, 2020 spring and 2020 fall semesters
- Quaternary session system: 2019 winter and 2020 summer sessions
- Preparing Master's thesis under the guidance of the thesis advisor for a year
- Strong encouragement by thesis advisory committee to complete Master's thesis before leaving Korea

◆ PKNU Academic Calendar, 2019–2021 ◆

Session	Date	Academic Schedule
2019 Preparatory Session	Jul. 29, 2019	Arrival in Korea & KOICA OT
	Aug. 2	Arrival in PKNU and Check in Dormitory and Welcome Ceremony
	Aug. 5	Program Orientation & Campus Tour
	Aug. 5 – 22	Preparatory Session
	Aug. 7	Course Registration for 2019 Fall Semester
	Aug. 15	National Liberation Day
	Aug. 23	Assigning Thesis Advisor and Laboratory
	Aug. 31	University Orientation
2019 Fall Semester	Sep. 2	2018 Fall Semester Starts
	Sep. 2 – Dec. 20	Basic Korean Class (1)
	Sep. 2 – 6	Drop/Add Period of Course Registration
	Sep. 12 – 14	Chuseok (Korean Thanksgiving Day)
	Oct. 3	National Foundation Day
	Oct. 9	Hangul Proclamation Day
	Oct. 21 – 25	Mid-term Exams
	Nov. 5 – 8	Course Registration for 2019 Winter Session
	Nov. 18 – 22	Onboard Training (Yeosu and Geojeodo)
	Dec. 16 – 20	Final Exams
	Dec. 20	Course Evaluation
Dec. 27	Submission of Final Graduation Type and Tentative Thesis Plan	
2019-2020 Winter Session	Dec. 26– Jan. 15, 2020	Winter Session
	Jan. 1, 2020	New Year's Day
	Jan. 15 – Feb. 26	Basic Korean Class (2)

Session	Date	Academic Schedule
	Jan. 24 – 26	Lunar New Year's Day
	Feb. 10 – 12	Course Registration for 2020 Spring Semester
	Feb. 28	Submission of the 1st Thesis Progress Report
2020 Spring Semester	Mar. 1	Independence Movement Holyday
	Mar. 2	2020 Spring Semester Starts
	Mar. 2 – 6	Drop/Add Period of Course Registration
	Apr. 13 – 17	Mid-term Exams
	Apr. 15	National Assembly Election
	Apr. 30	Buddha's Birthday
	May 5	Children's Day
	May 10	Anniversary Founding Day of PKNU
	May 18 – 22	Spring Festival of PKNU
	Jun. 6	Memorial Day
Jun. 15 – 19	Final Exams	
2020 Summer Session	Jul. 1 - 31	Special Lecture: How to Write a Scientific Paper
	Jul. 31	Submission of the 2nd Thesis Progress Report
	Aug. 5 – 7	Course Registration for 2019 Fall Semester
	Aug. 24 – 28	Registration of Graduate Qualifying Examination
2020 Fall Semester	Sep. 1	2020 Fall Semester Starts
	Sep. 21 – 25	Graduate Qualifying Exam
	Sep. 30 – 2	Chuseok (Korean Thanksgiving Day)
	Oct. 9	Hangul Proclamation Day
	Oct. 14 – 16	Dissertation Registration of Master's Degree
	Nov. 16 – 28	Oral Presentation of Master's Degree
	Dec. 11	Submission of Dissertation Report for Master's Degree
	Dec. 14 – 16	Publication of Master's Thesis
	Dec. 19	Completion Ceremony
	Dec. 20	Leave Busan
	Jan. 11, 2021	Submission of Final Thesis Publication
	Feb. 26	Graduation for Master's Degree

※ The above schedule may be subject to change. A detailed program schedule will be provided upon arrival.

C. ORIENTATION

When you first arrive, there will be an orientation for 3-4 days for KOICA's Scholarship Program at the KOICA International Cooperation Center (ICC). This orientation aims to provide participants with useful information on the program and general information on living in Korea that they will need during the program. Usually, the orientation is composed of two parts: KOICA's welcoming session, Extra Curricular Activities (Seoul city tour) and medical check-up. The order of each part is subject to change.

Session	Date	Contents
Arrival	July 29, 2019	Arrival in Korea
KOICA Orientation	July 30 – August 1, 2019	KOICA's Welcoming Session, Seoul City Tour and Medical Check-up

※ Before moving in the dormitory, you will stay at KOICA International Cooperation Center (ICC).

2. CURRICULUM

A. CURRICULUM AND CREDITS

- There are two graduation requirements for the Master's Degree program. First, **Research & Coursework (thesis type)** requires to complete **at least 24 credits and thesis**. Second, **Coursework (credit type)** requires to complete **at least 30 credits and project proposal**.
- Student should choose one of two graduation requirements with an academic advisor after the 2019 fall semester.

Semester/ Session	Credits		
	Required	Elective	Total
2019 Preparatory Session	0	0	0
2019 Fall Semester	0	12	12
2019 Winter Session	0	3	3
2020 Spring Semester	0	12	12
2020 Fall Semester	1	9	10
Sum	1	36	37

Type	2019 Preparatory Session
Non-Credit (P/NP)	Orientations, Learning Primary Subjects, Fundamental Experiments, Assigning Academic Advisor
Non-Curricular Activities	Lab Tour, Visits of Factory or Research Institute

Type	2019 Fall Semester	
	Subject	Credit
Required (Non-Credit)	Basic Korean (1)	P/NP
Elective (12 Credits)	Fisheries Resources Research	3
	Finfish Aquaculture & Eco-friendly Fish Culture System	3
	Fisheries Physiology	3
	Marine Bioenergy	3
	Sensory Evaluation & Statistics	3
	Newer Food Design	3
	Seafood Safety Control	3
	Computer Aided Fishing Gear Design	3
	Marine GIS & Information Processing	3
	Fisheries Economics & Management	3
Non-Curricular Activities	Special Lectures, Academic Conference, Field Study (Visits to Factory, Aquaculture Farms and Research Institutes), Onboard Training	

Type	2019 Winter Session	
	Subject	Credit
Required (Non-Credit)	Basic Korean (2)	P/NP
Elective (3 Credits)	Fisheries Topics	3
Non-Curricular Activities	Special Lectures and Field Study (Visits to Factory, Aquaculture Farms and Research Institutes)	

Type	2020 Spring Semester	
	Subject	Credit
Required (Non-Credit)	Understanding of Korean Culture	P/NP
Elective (12 Credits)	Fish Reproduction	3
	Fish Nutrition & Feed Formulation	3
	Algal Culture & Utilization	3
	Fish Disease	3
	Fisheries Waste Treatment	3
	Fisheries Resource Assessment & Management	3
	Fisheries Investment Appraisal	3
	Quantitative Research Methodology	3
Non-Curricular Activities	Academic Conference and Field Study (Visits to Factory, Aquaculture Farms and Research Institutes)	

Type	2020 Summer Session	
Special Lecture	How to Write a Scientific Paper	
Non-Curricular Activities	Field Study (Visits to Factory, Aquaculture Farms and Research Institutes)	

Type	2020 Fall Semester	
	Subject	Credit
Required (1 Credit)	Thesis Research	1
Elective (9 Credits)	Thesis Research	1
	Fisheries Resources Research	3
	Finfish Aquaculture & Eco-friendly Fish Culture System	3
	Fisheries Physiology	3
	Marine Bioenergy	3
	Sensory Evaluation & Statistics	3
	Newer Food Design	3
	Seafood Safety Control	3
	Computer Aided Fishing Gear Design	3
	Marine GIS & Information Processing	3
	Fisheries Economics & Management	3

◆ Description of Units ◆

Subject	Professor	Description
Fisheries Resources Research	PARK Wongyu	To conduct the scientific research and investigation for the fisheries resources and the safe operation of fishing vessels
Finfish Aquaculture & Eco-friendly Fish Culture System	PARK Jeonghwan	To understand the concepts of fish culture and the relationship between fish culture and its environment for environmentally and economically sustainable aquaculture
Fisheries Physiology	KIM Hyun-Woo	To understand basic physiological characteristics of economically important aquatic species and to apply acquired knowledge for aquaculture industry, including homeostasis, metabolism, endocrine system, and biotechnology related to fisheries science
Marine Bioenergy	KIM Sung-Koo	To understand the basic principles of marine bioenergy of the trends and developments such as marine biomass, pretreatment, enzymatic saccharification and bioethanol production
Sensory Evaluation & Statistics	LEE Yang Bong	To understand the theories and methods of sensory evaluation for food and fisheries products and to determine their quality by using statistical program
Newer Food Design	RYU Hong- Soo	To improve a dietary life by teaching physical and chemical knowledge of food components, food interaction and modification in cooking, processing or storage
Seafood Safety Control	KIM Young-Mog	To understand the basic principles of food hygiene and relationship between a living body and the effects of poisonous food and microorganisms, and the importance of food safety and establishment of HACCP system in the food factory
Computer Aided Fishing Gear Design	LEE Chun Woo	To design theory of various fishing gears, and practices for important fishing gears using a design program with a PC platform and analyze the performance of the designed gear using a computer
Marine GIS & Information Processing	SHIN Hyeon-Ok	To learn the knowledge for the global marine geographic information system (GIS), especially Atlantic area, Pacific area and Northeast Pacific area and the key function of biotelemetry, and to enhance the ability of information processing related to the fisheries with the ArcGIS software

Subject	Professor	Description
Fisheries Economics & Management	NAM Jong Oh	To understand the theory of economic exploitation of living resources dealing with two dynamic systems; population dynamics and the dynamics of economic system
Fisheries Topics	TBA	To focus on special topics of current importance in fisheries sciences
Fish Reproduction	CHANG Young Jin	To help students acquire the understandings on reproductive physiology of aquatic animals, and the approaches and useful managerial skills for fish seedling production
Fish Nutrition & Feed Formulation	BAI Sungchul C.	To understand the basic concepts of Fish Feed Nutrition and Feed Processing Technology including the classification of Nutrients and their metabolism in fish, the relationship between foods (including feeds) and nutrition, and aquafeed formulation and manufacturing
Algal Culture & Utilization	HONG Yong-Ki	To introduce basic biological principles involved in propagating seaweed, and provide an overview of key topics in the fields of seaweed aquaculture, tissue culture, strain improvement, genetic analysis, and biologically active substances from seaweed
Fish Disease	HUH Min-Do	To help students acquire the basic concept of disease and its occurrence in both fish and lower invertebrates
Fisheries Waste Treatment	KIM Joong Kyun	To introduce how to reutilize fisheries waste generated in fisheries processing, as useful resources by microbial degradation
Fisheries Resource Assessment & Management	ZHANG Chang Ik	To understand the basic concept of marine ecosystem, fisheries environment and the integrated ecosystem-based fisheries assessment and management approach
Fisheries Investment Appraisal	PYO Hee-Dong	To understand the economic evaluation techniques of fisheries project appraisal for the individual/firm and the public sector in developed and developing countries
Quantitative Research Methodology	PARK Cheol-Hyung	To understand basic tools of empirical analysis needed to write academic articles
Thesis Research	Thesis Advisor	To research underlying the master thesis and writing of the thesis by the supervising faculty member

B. ACADEMIC SYSTEM

1) ACADEMIC YEAR

- The academic year consists of three semesters (1 Spring and 2 Falls) and two seasonal sessions (Summer and Winter).
- Semester: 15 - 16 weeks (Spring: from early March to mid-June; Fall: from early September to mid-December)
- Seasonal session: 17 days

2) CREDIT REGISTRATION

- Semester: maximum 12 credits
- Seasonal session: maximum 3 credits
- Assessment: mid-term and final exam, assignment, attendance and special exam for a subject
- Credit system

Grade	A+	A0	B+	B0	C+	C0	D+	D0	F
Point	100-95	94-90	89-85	84-80	79-75	74-70	69-65	64-60	59-0
GPA	4.5	4.0	3.5	3.0	2.5	2.0	1.5	1.0	0.0

3) CLASS ATTENDANCE AND PARTICIPATION

- Attendance for every class is compulsory to earn good academic scores. Lecturers will check your attendance in order to evaluate your academic scores with other assessments at the end of the class.
- In addition, participation in lectures is also an important part of university academic life.
- Most lecturers often proceed discussions. Doing that fresh ideas can be discussed and opinions can be exchanged. Lecturers take note of students' positive participation as valuable and everyone is encouraged to express his or her view.

C. TITLE OF DEGREE

This is a Master's Degree program in Fisheries Science. Master candidates who complete graduation requirement of Research & Coursework (at least 24 credits and thesis) or Coursework (at least 30 credits and project proposal) will be granted the degree. The title of the degree is Master of Fisheries Science.



D. MEDIA AND METHODS OF INSTRUCTION

English is the medium of instruction. Not only the courses but all academic affairs will be conducted in English. Students do not need any prior knowledge of Korean language. Students can complete all their requirements for graduation within 14 months. Courses are designed to ensure students gain practical expertise. Participatory teaching methods will be fully utilized. Diverse methods such as experiment, simulation, debate and case study will be employed to enhance problem-solving ability.

E. GRADUATION REQUIREMENTS

1) CREDIT AND GPA

- Minimum grade in each course: **C0**
* *Anything below C0 will not be considered as a passing grade.*
- Minimum cumulative GPA for graduation: **B0** (3.0/4.5)

2) GRADUATE-QUALIFYING EXAMINATION

- Exam subjects: **Three** courses that students should pass in all session
- Minimum point for graduation: **70** /100 points in each exam subject
* *Only one additional make-up exam might be possible only if chairperson of IGFS approves.*

3) THESIS AND PROJECT PROPOSAL

- * *Grade for a thesis can be "Pass" or "Fail".*

■ **Students of Research & Coursework should:**

- Select a tentative thesis advisor during the preparatory session and confirm a graduation type as a thesis type
- Register for master's thesis research course at the 3rd semester
- Submit their thesis to Thesis Advisory Committee (TAC) and the Dean of Graduate School of Global Fisheries at least one week before the defense date
- Successfully defend their thesis from the TAC members during 4th session.
- Officially print their thesis within a year after defense

■ **Thesis Advisors should:**

- Be a full-time faculty member of PKNU or a person having a Ph. D. in the relevant research field
- Organize two persons of TAC, who are faculty members or specialists, to guide the student's thesis
- Appoint one of the TAC members (except advisor) as a committee chairperson
※ *Change of TAC may be possible under the approval of Dean of the Graduate School of Global Fisheries.*

■ **Thesis Advisory Committee (TAC) should:**

- Formally communicate all the procedures in completing thesis projects
- Inform the graduate candidate of the evaluation progress of thesis
- Report the result of defense to Dean of the Graduate School of Global Fisheries within a week after defense
- Make a decision for approval of the degree and report to the President of PKNU
※ *If serious theoretical or ethical problems are found in the thesis, the Graduation committee can withdraw the degree.*

3. EXTRACURRICULAR ACTIVITIES (TENTATIVE)

- ▣ Research Institutions and Industrial Sectors: Fisheries Related Institutions (NIFS, KMI, KIOST, GFSRI, FIRA, etc.), Aquaculture Farms, Seafood Processing Factories, Feed Processing Factory, etc.



- Public Administration Sectors: Ministry of Ocean and Fisheries, Busan Metropolitan City, Busan Port Authority, Busan Regional Korea Food and Drug Administration, etc.



- Conference and Exhibition: World Ocean Forum, Busan International Seafood and Fisheries Expo, Korean Society of Fisheries and Aquatic Science, Korea National Maritime Museum, Whale Culture Zone, etc.

- Onboard Training: Training Ship KAYA (1,737 ton) and Research Vessel NARA (1,494 ton)



- Cultural and Exposition Places: UN Park, Chungnyeolsa Shrine, Provisional Government of Korea in Busan, National Gugak Center, etc.

III. TRAINING INSTITUTE

1. GENERAL INFORMATION

A. PUKYONG NATIONAL UNIVERSITY (PKNU)

Pukyong National University (PKNU) has been evaluated as the best university for the undergraduate educational system by unifying two local national universities successfully for the first time in Korea. Looking back at the educational histories of these two universities (National Fisheries University of Busan and Busan National University of Technology), it has been more than 80 years from the moment of their inception. PKNU has 60 departments and 15 interdisciplinary programs for Master degree courses, and 56 departments and 12 interdisciplinary programs for Doctorate degree courses.

PKNU's new goal is to be a member of the top 100 global universities. We are also planning to support the development of promising new academic areas and help improve the levels of specialized research projects in at least three fields of studies to be among the top 10 in the global ranks. We will, furthermore, develop a more extensive global educational network. It gives our students numerous opportunities to discover and realize their potential as globally competent human resources. Under the support of student exchanging programs, they will be able to learn new things from foreign research content and able to experience diverse exotic cultures in other countries. At the same time we will continue to encourage highly qualified international students to come to study here with us and try to develop a curriculum to meet their academic needs.

Address: Pukyong National University, 45 Yongso-ro, Nam-gu, Busan, 48513, Korea

Website: www.pknu.ac.kr

B. KOICA-PKNU IGFS

Since 2007, short-term (1 to 3 months) training programs have been administered by Overseas Fisheries Cooperation Center (OFCC) in Pukyong National University (funded by KOICA and Ministry of Knowledge Economy). As of 2009, 65 fisheries officials and researchers from 19 African nations had been trained for the development of fisheries technology and business. From the remarkable success of the short-term programs, a more specialized Master's Degree Program was instituted. Accordingly, the KOICA-PKNU International Graduate Program of Fisheries Science (KOICA-PKNU IGFS) was established, and opened in the fall of 2010. Objective of KOICA-PKNU IGFS education is to bring up experts on fisheries-related fields who are equipped with core skills, practicable expertise, problem-solving ability, international awareness, and visions. The success of KOICA-PKNU IGFS will result in the development of fishery resources unutilized in developing countries for mutual benefits under the exchange of skilled technical knowledge and manpower.

Address: KOICA-PKNU IGFS, 3rd Floor, Jangbogo-Gwan, Pukyong National University, 45 Yongso-ro, Nam-gu, Busan, 48513, Republic of Korea

Website: www.gsgf-k.pknu.ac.kr

Facebook: @KOICA.PKNU

2. ACCOMMODATION

A. DORMITORY

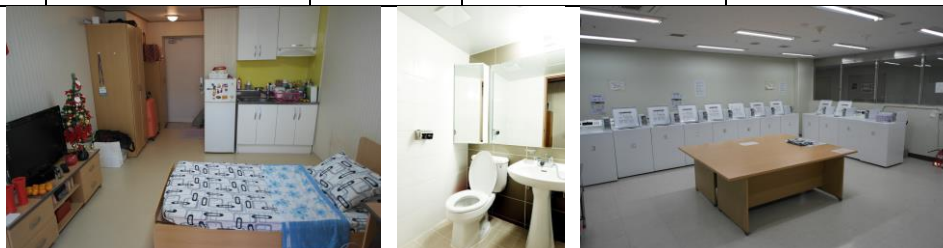
Dormitory at each campus (Daeyeon Campus and Yongdang Campus) of the University provides you with an opportunity to live in a comfortable, secured and well-managed environment. It has a central heating system, cafeterias, computer room, laundrettes and lounge areas. Each room is fully furnished, but a participant has to bring his/her own linen, towel, slippers, and other things that he/her may need. The room will be occupied by single or double, and each room is furnished with a bed, a desk and a cabinet. Also each room comes with a private shower/lavatory room, a phone, wired and wireless LAN and air conditioner. In addition, there are two common laundry rooms in the dormitory basement (B1). There are several coin washing machines. For long-distance and international calls, it is cheap to use pre-paid phones with calling cards that participants can buy the cards at the convenience stores around the campus. It is prohibited to cook and to use electric heating appliances (cooker, heater, iron, kettle, etc.) in the room because of fire risk. Dormitory offers basic meals during the 17-month stay period. **However it is unable to offer halal foods** because of meal unit. Dormitory always offers eggs, fish and vegetables for Muslim participants.

Address: Sejong-Gwan 1, Pukyong National University, 45 Yongso-ro, Nam-gu, Busan, 48513, Republic of Korea (Tel. +82-51-629-6731)



• Daeyeon Campus <Sejong-Gwan 1>

Bldg No.	Accommodation	No. of Rooms	Accommodated persons	Remark	Open year
A Bldg	Single room	22	22	Female	2009
	Double room	392	784	Female	2009
B Bldg	Single room	46	46	Male	2009
	Double room	390	780	Male	2009
Total		850	1,632	Females - 806; Males - 826	



• **Daeyeon Campus <Sejong-Gwan 2>**

Bldg No.	Accommodation	No. of Rooms	Accommodated persons	Remark	Open year
A Bldg	Single room	17	17	Female	2016
	Double room	255	510	Female	2016
B Bldg	Single room	37	37	Male	2016
	Double room	216	469	Male	2016
Total		525	1,033	Females - 527; Males - 506	

• **Yongdang Campus <Kwangeto-Gwan>**

Bldg No.	Accommodation	No. of Rooms	Accommodated persons	Remark	Open year
A Bldg	Double room	155	310	Females - 48; Males - 262	2004
B Bldg	Double room	106	212	Females - 72; Males - 140	2007
Total		261	522	Females - 120; Males - 402	

B. RESEARCH FACILITIES

■ **FISHERIES SCIENCE RESEARCH CENTER**

The Fisheries Science Research Organization is a research and development unit with strong capabilities in marine science and technology, culture of aquatic plants and animals, development of seafood products and policy development. It consists of nine major research institutes: Institute of Fisheries Science, Institute of Food Science, Marine Industry Policy Research Institute, Feeds and Foods Nutrition Research Center, Fisheries Science & Technology Center, Institute for Marine Living Modified Organisms, Institute of Sliced Raw Fish, Institute of Marine Life Sciences, and Institute of Low-carbon Marine Production Technology.

- Institute of Fisheries Science
- Institute of Food Science
- Marine Industry Policy Research Institute
- Feeds and Foods Nutrition Research Center
- Fisheries Science and Technology Center
- Institute for Marine Living Modified Organisms
- Institute of Sliced Raw Fish
- Institute of Marine Life Science
- Institute of Low-Carbon Marine Production Technology



■ FISH HOSPITAL

The Fish Hospital of Pukyong National University was established in 2009 as aquatic life general hospital for life respect, nature love and fisheries development. The Fish hospital provides the following services: aquatic life disease diagnosis, harmful materials assay and medicinal effects assay. Fish hospital is trying to provide excellent medical services.

■ TRAINING SHIP MANAGEMENT CENTER

The aim of the Training Ship Operation Center is to assist the students involved in fisheries and ocean department with optimum conditions on-board training and marine research to be professional sea men and technician, and keep efficient management of training ship KAYA and research vessel NARA.



■ TRAINING CENTER FOR FISHERIES AND MARINE SCIENCE

The Training Center for Fisheries and Marine Science is an educational laboratory to provide university members with practical facilities and programs required in fisheries science. Major activities of the center are focused on the R&D on a variety of aquaculture technology and food processing from marine resources. The center also supports many interdisciplinary programs for student education and cooperative research between university and industry.

■ AQUACULTURE FARM

The Fish Farm in the university campus is in use for the education and research on freshwater fish culture including genetics, nutrition, and aquaculture engineering. The closed recirculating water system and still water ponds cover around 6,000m² of water surface on a total site of 11,000 m².



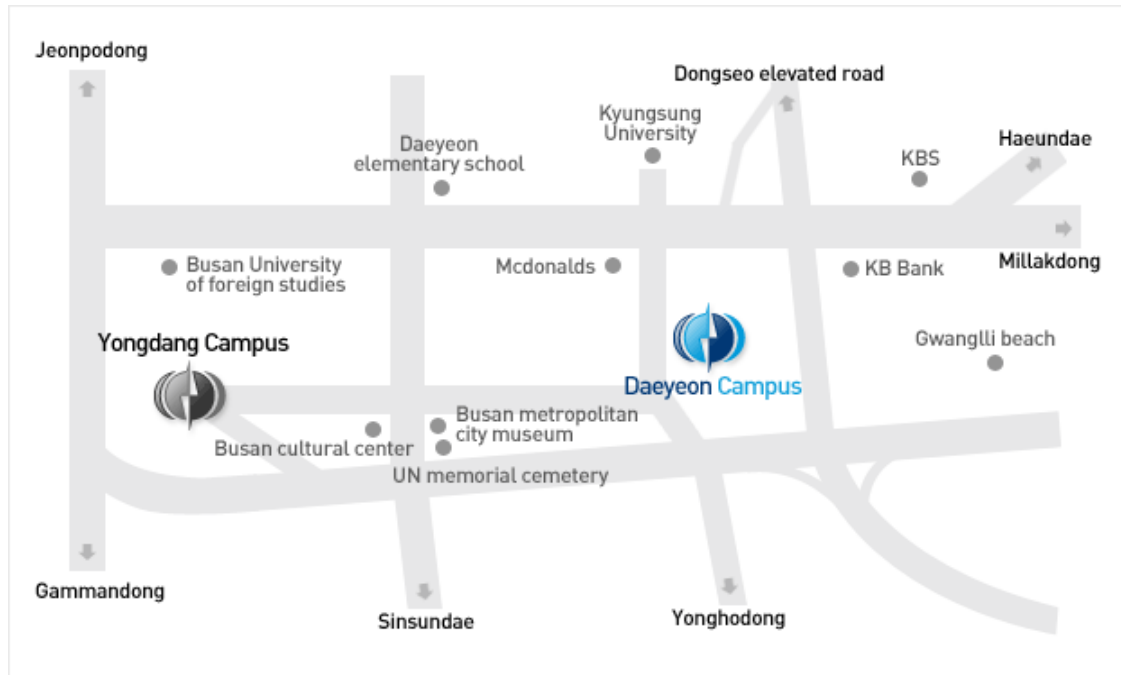
■ FOOD PROCESSING FACTORY

The Food Processing Factory is equipped with processing lines for canned food and fish cakes (including fish sausage), a refrigeration and cold storage system, equipment for dehydration, drying and other purposes.



3. OTHER INFORMATION

A. CAMPUS MAP



■ Address

▪ DAEYEON CAMPUS

45 Yongso-ro, Nam-gu, Busan 48513, Republic of Korea
(Tel. +82-51-629-6877, 8)

▪ YONGDANG CAMPUS

365 Sinseon-ro, Nam-gu, Busan 48547, Republic of Korea
(Tel. +82-51-629-4114; Fax. +82-51-629-6040)



B. CAMPUS LIFE

1) Student ID Card

KOICA-PKNU IGFS will assist you filling out forms for obtaining a student ID card. It can take up to three weeks to process your ID cards. When you have it, you can enter the university library and access all public university facilities.

2) Library

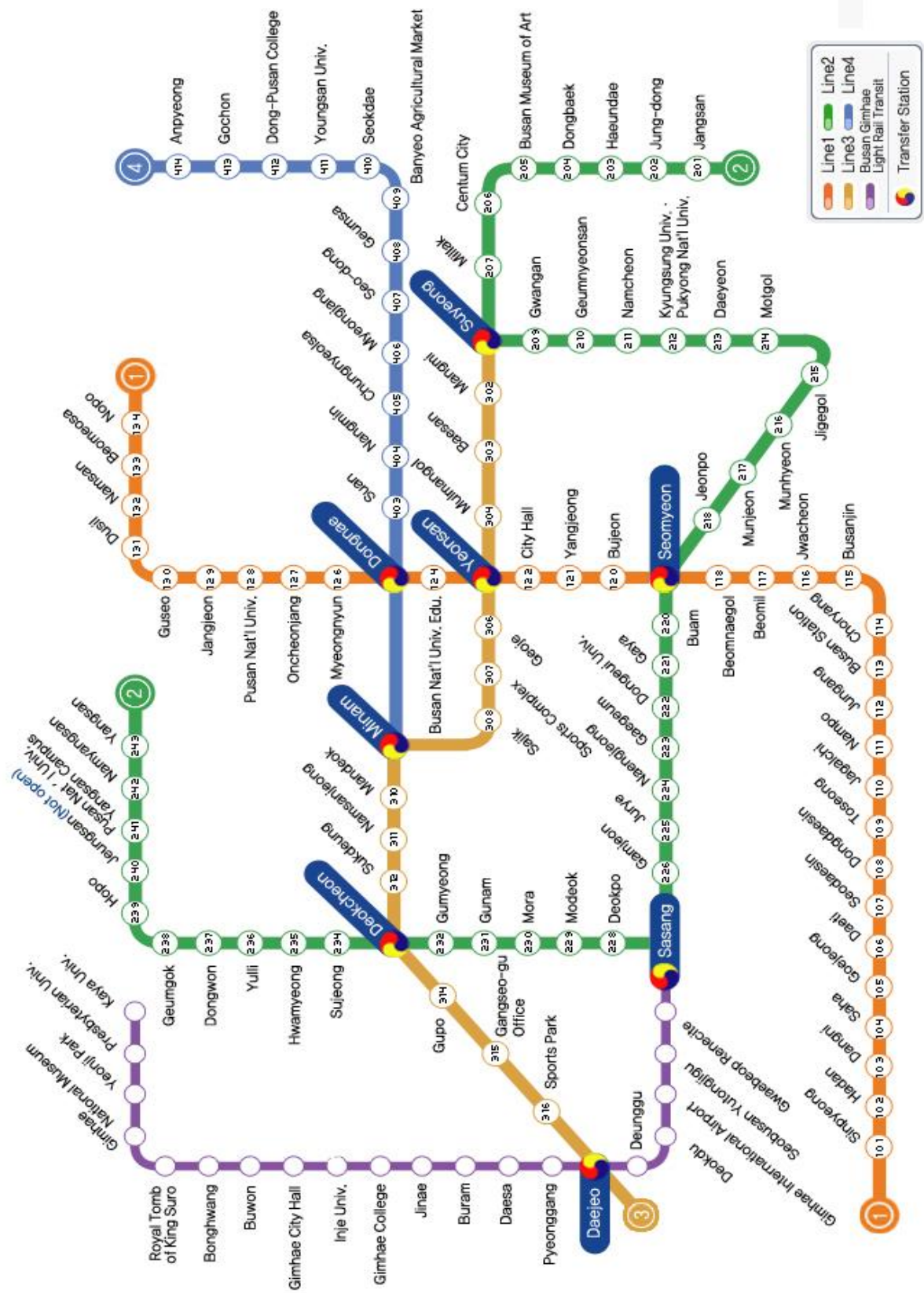
There are five libraries (the Central Library, the Engineering Library, the Architecture Library, Humanity Library and the Study Library) on the Daeyeon and Yongdang campuses and each of them is separately managed. You will be able to make full use of the libraries, such as checking availability of materials on the library computer system, photocopying, reservations and inter-library loan services. The library opens on a daily basis except Saturdays, Sundays, National Holidays and University Foundation Day. You need a student ID card to enter the library and to borrow books and other materials. Their website is <http://libweb.pknu.ac.kr> and has extensive information. You can use your ID card to borrow and extend the due date of books through website.



3) Transportation

- **Shuttle Bus:** Daeyeon Campus ⇔ Yongdang Campus
- **Busan Public Transfer System**
 - Transportation card offers a transfer discount.
 - Transfer discount is available within 30 minutes of disembarkment.
 - Transfer discount is available between bus-bus, bus-metro and metro-bus.
 - There is no discount for the same numbered bus transfer.
- **Busan Metro (Subway):** Fare is based on each moveable section (January 2018)

Section	Transportation Card	General Boarding Ticket
1	KRW 1,300	KRW 1,400
2	KRW 1,500	KRW 1,600



▪ **Fares Effective of Public Bus**

(January 2018)

Type	Transportation Card	Cash
Intra-city Bus	KRW 1,200	KRW 1,300
Express Bus	KRW 1,700	KRW 1,800



▪ **Taxi**

- Basic rate: KRW 3,300 (within 2 km) (January 2018)
- The rate increases by distance and time.
- There is extra charge (20%) from 12 a.m. to 4 a.m.

▪ **How to get to the PKNU**

- ① From Gimhae International Airport
 - Metro: Take [Busan Gimhae Light Rail Transit] ⇒ Get off “Sasang Station” and Transfer to [Line 2: Toward Jangsan] ⇒ Get off “Kyungsung Univ./ Pukyong Nat’l Univ. Station”
- ② From Busan Railroad Station (Busan KTX Station)
 - Metro: Take [Line 1: Toward Nopo] ⇒ Get off “Seomyeon Station” and Transfer to [Line 2: Toward Jangsan] ⇒ Get off “Kyungsung Univ./ Pukyong Nat’l Univ. Station”
 - Bus: Get on [Bus No. 27] in front of Busan Railroad Station ⇒ Get off “Pukyong Nat’l University Station”
- ③ From Busan West Bus Terminal (Sasang Bus Terminal)
 - Metro: Take [Line 2: Toward Jangsan] ⇒ Get off “Kyungsung Univ./ Pukyong Nat’l Univ. Station”
- ④ From Busan Central Bus Terminal (Nopo Bus Terminal)
 - Meter: Take [Line 1: Toward Sinpyeong] ⇒ Get off “Seomyeon Station” and Transfer to [Line 2: Toward Jangsan] ⇒ Get off “Kyungsung Univ./ Pukyong Nat’l Univ. Station”

4) Health Care

▪ Health Care at the PKNU

Health Clinic Center is located in the student union building, 2nd floor. The Health Clinic Center provides basic but important health services. The staffs at the Center are dedicated to providing medical services including free checkups (Hepatitis B and 22 other kinds) each semester, first aid, health consultations, medication and treatment in case of sickness or injury. Dental care and treatment is available on Tuesdays and Thursdays at a low price (Professional doctor will be in the clinic twice a week). If you would like to use the service, you need to book in advance (<http://myweb.pknu.ac.kr/health>).

▪ Local Hospital around the PKNU

Level	Medical Department	Name of Hospital	Address	Distance from PKNU (① on foot, ② by bus, ③ by tax (KRW))
General Hospital	<ul style="list-style-type: none"> - General Surgery - Internal Medicine - Gynecology - Urology - Dermatology - Otolaryngology - Ophthalmology - Dentistry 	Good Gang-an Hospital	40-1 Namcheon-dong Suyeong-gu, Busan (Tel. 051-625-0900)	① 35 min ② 20 min ③ 9 min (3,900)
		Busan St. Mary's Medical Center	25-14, Yongho-ro 232 beon-gil, Nam-gu, Busan (Tel. 051-933-7114)	① 50 min ② 23 min ③ 11 min (5,400)
Hospital	<ul style="list-style-type: none"> - Internal Medicine - Neurology - Orthopedics 	Busan Korea Hospital	238, Suyeon-ro, Nam-gu, Busan (Tel. 051-930-3000)	① 17 min ② 15 min ③ 5 min (3,300)
	<ul style="list-style-type: none"> - Internal Medicine - Orthopedics 	Metro Hospital	24-5 Namcheon-dong, Suyeon-gu, Busan (Tel. 051-626-0250)	① 20 min ② 15 min ③ 5 min (3,300)
	Gynecology	Hannah Women's Hospital	304, Namcheon-dong, Suyeong-gu, Busan (Tel. 051-625-2300)	① 17 min ② 20 min ③ 6 min (3,300)
Basic Clinic	Otolaryngology	Bareun Otolaryngology	73-1, Daeyeon-dong, Nam-gu, Busan (Tel. 051-611-8558)	① 13 min ② 5 min ③ 3 min (3,300)
		Sumizi Otolaryngology	72-23, Daeyeon-dong, Nam-gu, Busan (Tel. 051-612-8058)	① 11 min ② 5 min ③ 3 min (3,300)
	Internal Medicine	Dr. Kim's Internal Medicine Clinic (KIM Bo Suk)	42-1 Namcheon-dong, Suyeong-gu, Busan (Tel. 051-626-8575)	① 21 min ② 14 min ③ 6 min (3,300)
		Jogijung Internal Medicine Clinic	73-11 Daeyeon-dong, Nam-gu, Busan (Tel. 051-257-8828)	① 12 min ② 14 min ③ 6 min (3,300)

Level	Medical Department	Name of Hospital	Address	Distance from PKNU (① on foot, ② by bus, ③ by tax (KRW))
	Dermatology	Kims Clinic	297 Suyeong-ro, Nam-gu, Busan (Tel. 051-611-9999)	① 12 min ② 5 min ③ 3 min (3,300)
	Ophthalmology	Bareunnun Eye Clinic	73-11 Daeyeon-dong, Nam-gu, Busan (Tel. 051-611-4455)	① 12 min ② 5 min ③ 3 min (3,300)
	Dentistry	Soo Boo Boo Dental Clinic	72-7 Daeyeon-dong, Nam-gu, Busan (Tel. 051-628-8020)	① 10 min ② 5 min ③ 3 min (3,300)
	Gynecology	Elle Ob & Gyn	329 Suyeong-ro, Suteong-gu, Busan (Tel. 051-626-8090)	① 20 min ② 16 min ③ 5 min (3,300)
	Urology	Shinsejong Clinic	1298-13 Daeyeon-dong, Nam-gu, Busan (Tel. 051-628-8017)	① 22 min ② 15 min ③ 7 min (3,300)

5) Global Lounge

The International Affairs Office, PKNU provides a special space for international students. The room is located on Deayon Campus, 1st floor of the Dongwon Jang Bogo Hall. International students can use the room freely for group meetings, study and discussion. There are also some books that students can read or borrow for their study. Students can watch the news from their home countries or practice their language skills with the brand new satellite broadcasting system (<http://oireng.pknu.ac.kr>).

6) Sports Facilities

There are tennis, basketball and football courts and in-door fitness centers located on Daeyeon and Yongdang Campus. The fitness centers are open to registered members only.

7) Cultural Experience Program & International Day

The Cultural Experience Program is a one-day field trip to traditional places in Korea. We offer this program once a semester. Seats are limited, so international students should be quick to apply once the notice is posted. Every semester, an International Day is organized by the staff from the International Affairs Office. International students can share not only their ideas for a better campus life at the PKNU, but also their impressions of the PKNU life through Q&A time with staffs from the International Affairs Office (<http://oireng.pknu.ac.kr>)

8) Free Korean Language Course

The Language Education Center of PKNU provides a 15-week free Korean language courses for international students and lecturers. In these courses, students will learn how to speak the Korean language, grammar, reading, and all necessary language skills for their campus life.

IV. ACADEMIC REGULATIONS

1. ACADEMIC REGULATION

A. ATTENDANCE AND ABSENTEEISM

- ① No credit will be given to a student who misses more than one-third of class hours without approval.
- ② Given approval from the program chairperson in advance, the absent class hours can be exempted in the exceptional cases below;
 - Death of an immediate family member (grandparents, parents or siblings) or equivalent circumstance,
 - Academic planning, field-trips, on-location training, etc.
 - Participation in seminars or conferences as approved by the program chairperson
 - Other events as approved by the program chairperson,
- ③ In illness or emergency situations, students who are absent for less than three days need to submit written notification of such absence to the program chairperson. For absences longer than three days, students must submit a written diagnosis by a physician.

B. EXAMINATION AND GRADE EVALUATIONS

- ④ Credit and GPA
 - Students must get minimum **C0** in each course. Anything below C0 will not be considered as a passing grade.
 - Students must maintain at minimum **B0**(3.0/4.5) of cumulative GPA
- ⑤ Regular Examination
 - Regular Exam: Mid-term (7th or 8th week of semester) and Final (last one week of semester)
 - It is not tolerated any cheating during the examination. If student shows any cheating during the examination, the student is imposed "F" and is not accepted any make-up exam.
- ⑥ Graduate-Qualifying Examination
 - Exam Subject: Three courses that student should pass in all semesters.
 - Students must get minimum 70 points (/100) in each exam subject. Only one additional

C. PKNU DORMITORY REGULATION

- ① PKNU dormitory has very strict regulations, and all students must abide by them.
- ② You must reside in the dormitory. Living off-campus is prohibited.
- ③ A student who violates dormitory regulations will be evicted from the dormitory.
- ④ Neither smoking nor drinking alcohol is allowed in the building.

- ⑤ Cooking in the dormitory is prohibited due to safety reasons. However, dormitory offers basic meals to all students during their 17 months stay.
- ⑥ If a student receives more than 5 penalty points according to the dormitory regulation, he or she will be expelled from the dormitory, and return to his or her home country.

◇ **Dormitory Restrictions and Penalty Policy** ◇

Penalty Subjects	Penalty								
Students who <ul style="list-style-type: none"> • Disobey the dormitory instructions or Use verbal/physical violence to the staff • Cause fire in the dormitory • Steal or intend to steal someone's (newspaper/magazine/posted letters/parcel etc.) • Stay or Let others stay in the dormitory by illegally transferring Entrance card 	Permanent Expulsion from Dormitory								
Students who <ul style="list-style-type: none"> • Accompany outsiders inside the dormitory and provide lodgings • Accompany the opposite sex in their room without permission • Gamble, get drunk, assault and make disturbance under influence (stupor, noise) in the dormitory • Cook or do related activity in the room 	5 points (Expelled)								
Students who <ul style="list-style-type: none"> • Smoke in the room or inside the buildings • Bring in flammable objects into the dormitory • Banned objects <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Classification</th> <th style="text-align: center;">Items</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Flammable articles</td> <td>All Types of Heaters (Electric Pads, Heat Fans, Stove, Iron, Butane gas, Thinners, Gasoline, etc.)</td> </tr> <tr> <td style="text-align: center;">All types of cooking equipment</td> <td>Electric Rice Cooker, Coffee Pot, Hot plate, Microwave, Gas burner, Oven, etc.</td> </tr> <tr> <td style="text-align: center;">Bothersome items</td> <td>Alcoholic Beverages, Pornography, Gambling Items</td> </tr> </tbody> </table> <p style="text-align: center;">※ <i>Living Necessaries (Chargers, Hair Dryer, Electronic Shavers, etc.) are allowed.</i></p>	Classification	Items	Flammable articles	All Types of Heaters (Electric Pads, Heat Fans, Stove, Iron, Butane gas, Thinners, Gasoline, etc.)	All types of cooking equipment	Electric Rice Cooker, Coffee Pot, Hot plate, Microwave, Gas burner, Oven, etc.	Bothersome items	Alcoholic Beverages, Pornography, Gambling Items	4 points
Classification	Items								
Flammable articles	All Types of Heaters (Electric Pads, Heat Fans, Stove, Iron, Butane gas, Thinners, Gasoline, etc.)								
All types of cooking equipment	Electric Rice Cooker, Coffee Pot, Hot plate, Microwave, Gas burner, Oven, etc.								
Bothersome items	Alcoholic Beverages, Pornography, Gambling Items								
Students who <ul style="list-style-type: none"> • Do not use designated entrance or abet such actions <ul style="list-style-type: none"> - Use the exit door of cafeteria/emergency entrance - Try to arbitrarily make alteration to the entrance door • Abet entrance of strangers to the dormitory or accompany strangers in the dormitory 									
Students who <ul style="list-style-type: none"> • Violate the dormitory administrative instructions <ul style="list-style-type: none"> - Change the assigned rooms without the permission from administration - Checked out without returning the card keys - Do not follow the instructions of the dormitory administration • Deliberately vandalize or arbitrarily change the place of public articles and in-room furniture (cleaning tools, fire extinguishers, sofa etc.) • Scribble or post unauthorized banners/placards/posters/ads without the permission from administration • Let outsiders use cafeteria by lending card keys or accompanying outsiders • Behave in a way that harms the image and reputation of the dormitory 	3 points								

Penalty Subjects	Penalty
<p>Students who</p> <ul style="list-style-type: none"> • Do activities that are not suitable for community life or are harmful to others <ul style="list-style-type: none"> - Making excessive noise - Bringing or breeding pets into the dormitory • Sleep outside without informing the dormitory officials • Harm the customs of the dormitory or Behave in a corresponding way <ul style="list-style-type: none"> - Spit in the dormitory area - Litter in the dormitory area - Have sexual/physical affair, Act in a way corruptive of public ethics - Smoke in the dormitory area - Do not take off shoes in the room • Disturb others while using the internet <ul style="list-style-type: none"> - Use others' IP address, spread malicious code, spread false information 	2 points
<p>Students who</p> <ul style="list-style-type: none"> • Do not keep their rooms clean and organized <ul style="list-style-type: none"> - Do not keep personal belongings organized and are negligent to the piled trash - Do not follow hygienic life by not ventilating the room regularly and keeping room cleanliness • Violate the normal curfew hours <ul style="list-style-type: none"> ✘ <i>Ones who submitted explanation letters and have permission are exempted.</i> • Leave the room without turning off air conditioner, water, heater, TV, PC etc. • Be absent at orientation or official roll call without permission • Park bicycles or motorcycles in unauthorized area and breach the orders 	1 point

✘ *Besides the regulations above, if actions that fall under the category of violating dormitory instructions or resident is assumed irresponsible for following instructions, the Director may accept suggestion from the council and penalize.*

V. REQUIRED DOCUMENTS

- ☒ All documents should be sent to the regional KOICA office or the relevant government office.

1. REQUIRED DOCUMENTS

- ※ All documents should be sent to the regional KOICA office or the relevant government office.
- ※ Please do not send the materials to Pukyong National University.
- ※ Important Notes for Applicant:
 1. Name and birth date on the application forms must be the same as the one on passport.
 2. All forms must be **typed in English (no italics)** and all the supporting documents must be **written in English**. Documents in any other language must be accompanied by a notarized English translation.
 - ※ No translated document in English will be rejected.
 3. Original documents must be submitted. Should they be unavailable, however, **copies must be authorized by the originating institution before they are submitted.**
 4. If any of the submitted materials contain false information, admission is rescinded.
 5. Applicant whose forms and supporting documents are incomplete or unsatisfactory is disqualified for the admission process.
 6. Applicant should take full responsibility for any disadvantage due to his or her mistakes or omissions in the application.

① Document checklist

② A KOICA application form

③ A PKNU application form [PKNU form 1]

④ Two letters of recommendation [PKNU form 2]

- ※ One of recommenders must be an applicant's superior affiliated to the same organization.

⑤ A written pledge [PKNU form 3]

⑥ A personal statement [PKNU form 4]

⑦ A research proposal [PKNU form 5]

⑧ An official diploma (Bachelor's Degree) (in English)

- ※ Document notarized by the Embassy of the Republic of Korea (To be notarized at the Embassy of Republic of Korea, applicant must first obtain a notarization from applicant's Ministry responsible foreign affairs.).

- ※ Title of degree, department name and undergraduate institution name must be specified.

⑨ An official transcript from undergraduate institution (in English)

- ※ Document notarized by the Embassy of the Republic of Korea (To be notarized at the Embassy of Republic of Korea, applicant must first obtain a notarization from applicant's Ministry responsible foreign affairs.).

- ※ Title of degree, department name, subjects' name, total credits and GPA must be specified.

⑩ A photo

- ✘ Size: 35x45mm (The area from the top of the head to the chin must be no less than 29mm, and no more than 34mm high.)
- ✘ Taken within the last 6 months.
- ✘ Taken with a neutral facial expression (eyes open and clearly visible, mouth closed, no smiling).
- ✘ Taken with uniform lighting and not show shadows, glare or flash reflection.
- ✘ Taken straight on, with face and shoulders centered and squared to the camera.
- ✘ Taken in front of a plain white or light-colored background (no primary and dark colors) with a clear difference between your face and the background.

⑪ A copy of passport

⑫ A curriculum vitae

- ✘ Write about applicant's professional experiences (awards, trainings, presentations, various techniques, hobbies and so on) not mentioned in the PKNU forms (1 ~ 5).

⑬ A certificate of employment from organization

- ✘ Position, employment type and employment date must be specified.
- ✘ Certificate must be issued within one month of the application deadline.

⑭ A certificate of English proficiency test (if applicable)

- ✘ TOEFL (PBT/CBT/IBT), ILETS and TEPS are accepted.

VI. CONTACTS

1. CONTACT INFORMATION

A. Korea International Cooperation Agency (KOICA)

· **Program Manager: Mr. Hyunseok KANG**

- ODA Education Center
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2. KOICA-PKNU International Graduate Program Of Fisheries Science, Graduate School Of Global Fisheries, Pukyong National University

· **Program Chairperson: Prof. Young-Mog KIM**

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· **Program Professor: Prof. Kyoungmi KANG**

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- ✘ The schedule in PI (Program Information) is subject to change according to the schedule of KOICA and Pukyong National University.