

Meteorological Cooperation Project Utilizing the IOC Fund

□ Training Program

- Description: This project aims to support education and training for meteorological personnel to strengthen pre-disaster preparedness and response capabilities for meteorological hazards such as typhoons (cyclones) and heatwaves, thereby minimizing human and material losses.
- ※ Training Areas: Forecasting (forecast production, emergency text alert service), numerical weather prediction (NWP), observations (surface, seismic), remote sensing (radar, satellite), and others (marine, agriculture, health-related services)
- Budget, Duration, and Participants: KRW 200 million per year; 1 week; up to 10 participants
- Proposed Program
 - ※ When designing the training course, including lectures and field visits, it is difficult to cover all areas within a single course. Therefore, the program should be structured into separate tracks by field.

Category	Field	Program	Remarks
Lectures	General	Introduction to functions and roles of the Korea Meteorological Administration (KMA)	
	Forecasting	Weather Forecast Production & Heavy Rain Emergency Text Alert Service	
	Numerical Weather Prediction	Techniques for Utilizing NWP Data	
	Observations	Operation of Meteorological Observation Networks & Data Utilization Techniques	
		Operation of Seismic Observation Networks & Earthquake/Tsunami Early Warning System	
	Remote Sensing	Radar Data Utilization Techniques	
		Early Monitoring Techniques for High-Impact Weather Using Satellite Data	
	Applied Information	Production and Services of Marine Meteorological Information	
		Applied Meteorological Techniques (Agriculture, Health, etc.)	
Site Visits	Forecasting	National Meteorological Center	Seoul
		National Typhoon Center	Jeju
	Observations	National Earthquake & Volcano Integrated Situation Room	Seoul
		National Meteorological Museum & Seoul Weather Station	
		Korea Certification Center of Meteorological & Earthquake Instruments	Ochang, Chungbuk
	Numerical Weather Prediction	National Meteorological Supercomputer Center	
	Remote Sensing	National Meteorological Satellite Center	Jincheon, Chungbuk

COURSE OVERVIEW

1. COURSE TITLE : Capacity Building for Sustainable Fisheries Development in the Indian Ocean

2. OBJECTIVES

- 1) To share Korea's experience in fisheries technology development
- 2) To strengthen the capacity to implement national fisheries policies
- 3) To develop fisheries projects that promote food security and economic growth

3. COURSE DURATION

- Invitational Course (based on the date of entry to/leave from Korea) : 14 days (including arrival and departure days)

4. COURSE TYPE

- Invitational Course (course in Korea)

5. LANGUAGE : English

- * Lectures will be interpreted from English to French.

6. LOCATION

- 1) Course: Pukyong National University (PKNU)
- 2) Accommodation : Training Institute of PKNU or a hotel near the PKNU

7. PARTICIPANTS : 15 people

8. ELIGIBILITY REQUIREMENTS

MANDATORY	1. Be nominated by their government; 2. Be in good health, both physically and mentally, enough to take the course; 3. Have a willingness to show a high level of participation and commitment throughout the course and contribute to the capacity building of their organization after the completion of the program; 4. (Original place of employment); Ministry or National Institutes of target countries (Comoros, La Réunion, Madagascar, Mauritius, and Seychelles) 5. (Position) Be a government employee in a managerial position 6. (Relevant work experience) minimum 1 year; 7. (Language capability) Sufficient proficiency in written and spoken English to actively participate in seminars and write an Action Plan 8. (Full-time Participation) Be able to attend the program full-time 9. (IT literacy) Have working knowledge of computers and related digital technology and perform basic tasks such as operating software systems, platforms, and other communication programs (Windows, MS Office, email, etc.); 10. (Invitational training /Quarantine) Be eligible for exemption from quarantine in Korea, or do not have any restrictions on re-entry to the participant's country regarding quarantine and immigration
PREFERABLE	1. Have experience in fisheries sector or fisheries-related major
RECOMMENDED	1. (Vaccination/Health) Have completed vaccination or do not have risk factors of developing severe COVID-19 or any diseases

※ This course is targeted at participants meeting the above qualifications, and thus, ineligible participants, if any, may have difficulty understanding the course.

9. CURRICULUM

MAIN LECTURES & DISCUSSIONS

Module 1. Korea's Development Strategy and Experience in the Fisheries Sector

- IUU Management Policy and Major System of Korea
- Eco-friendly Fishing Gear and Policies of Korea
- Fisheries Resources Management
- Aquaculture Policy and Strategy of Korea
- Seafood Quarantine & Management

Module 2. Capacity Building on Practical Application Skills

- (Field Trip) East Sea Fisheries Management System
- (Field Trip) National Institute of Fisheries Sciences
- (Field Trip) Korea Fisheries Resources Agency
- (Field Trip) Aquaculture Farm
- (Field Trip) National Fishery Products Quality Management Service

Module 3. Country Report and Action Learning / Plan

- Country Report
- Action Plan Methodology
- Action Plan Workshop & Evaluation

EXTRACURRICULAR ACTIVITIES

- Marine Tourism Benchmarking (Haeundae)
- Busan Fish Market
- Busan Traditional Market
- Yacht Tour & Drones Illuminating Night Sky

11. IMPLEMENTING ORGANIZATION: Pukyong National University (www.pknu.ac.kr)



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 Pusan National University of Technology), it has been more than 80 years from the moment of their inception. PKNU has 81 departments and 19 interdisciplinary programs for Master degree courses, and 75 departments and 17 interdisciplinary programs for Doctorate degree courses. Especially, the College of Fisheries Science has long been a driving force in fostering the advancement of knowledge and technology in the field of fisheries and aquaculture.

Moreover, since 2007, short-term (1 to 3 months) training programs for fisheries officials have also been administered by Overseas Fisheries Cooperation Center (OFCC) in Pukyong National University (funded by KOICA and Ministry of Knowledge Economy). 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. KOICA-PKNU IGFS 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: Pukyong National University, 45 Yongso-ro, Nam-Gu, Busan, 48513, Republic of Korea

11. DETAILED PROGRAM SCHEDULE

Day	Program Description	Remarks
Day 1 (Sun)	Arrival in Korea / Busan	
	Arrival at Incheon International Airport (Domestic Transfer) Arrival at Gimhae International Airport Check-in Hotel	Incheon / Busan
Day 2 (Mon)	PKNU Orientation & Welcoming Event	
	Orientation PKNU Opening Ceremony & Orientation Welcoming Luncheon Country Report Presentation & Discussion	PKNU
Day 4 (Tue)	Lecture & Field Trip	
	(Lecture 1) Action Plan Methodology (Field Trip 1) Campus Tour (including PKNU vessels)	PKNU
Day 5 (Wed)	Lecture & Field Trip	
	(Lecture 2) IUU Management Policy and Major System of Korea (Field Trip 2) East Sea Fisheries Management System	PKNU/ Busan
Day 6 (Thu)	Lecture & Field Trip	
	(Lecture 3) Eco-friendly Fishing Gear and Policies of Korea (Field Trip 3) National Institute of Fisheries Sciences	
Day 7 (Fri)	Lecture & Field Trip	
	(Lecture 3) Fisheries Resources Management (Field Trip 3) Korea Fisheries Resources Agency	PKNU / Busan
Day 8 (Sat)	Field Trip & Cultural Excursion	
	(Field Trip 1) Busan Fish Market (Excursion 1) Busan Traditional Market (Bupyeong Market) (Excursion 2) Yacht Tour & Drones Illuminating Night Sky	Busan
Day 9 (Sun)	AP Preparation	
	Action Plan Preparation	Hotel
Day 10 (Mon)	Lecture & Field Trip	
	(Lecture 4) Aquaculture Policy and Strategy of Korea (Field Trip 4) Aquaculture Farm	PKNU / Busan
Day 11 (Tue)	Lecture & Field Trip	
	(Lecture 5) Seafood Quarantine & Management (Field Trip 5) National Fishery Products Quality Management Service	PKNU
Day 12 (Wed)	Field Trip & AP Preparation	
	(Field Trip 6) Korea Marine Tourism Benchmarking (Haeundae) Action Plan Preparation	Busan
Day 13 (Thu)	AP Workshop, Evaluation & Close Ceremony	
	(AP Workshop) Presentation of Final Action Plan Evaluation and Pre-Departure Orientation Close Ceremony Farewell Banquet	PKNU
Day 14 (Fri)	Departure from Busan / Korea	
	Check-out Hotel Departure from Gimhae International Airport (Domestic Transfer) Departure from Korea (Incheon International Airport)	

* The above schedule is subject to change. A detailed course schedule will be provided upon arrival.