

 **Phuket, Thailand**

# **PSU-PHET programs**

**(PSU-PHUKET ENVITECH SHORT PROGRAMS)**

**Faculty of Technology and Environment  
Prince of Songkla University, Phuket Campus**

**CONTACT  
US!**



**+66 76 276 000 EXT. 6107**



**psu-phet@phuket.psu.ac.th**



# Intensive Programs

**Duration:** 1 week

**Fee:** 12,000 THB/ Person/ Program

**Participants:** Minimum 10 Persons/Program

## Courses:

1. Ecological rehabilitation by soft coral
2. Black salmon: from floating basket to table
3. Ecological-based tourism
4. Community-based tourism
5. Production of Phuket cultural food
6. Diving and conservation in Phuket



## **Ecological rehabilitation by soft coral (45 hours)**

### **Description:**

Cultivation of soft corals; Propagation techniques; Nursery in hatchery; Growth in the sea; Biodiversity; Community participation

### **Objectives:**

1. To demonstrate how to cultivate soft corals and grow them in a hatchery before taking them to the sea.
2. To learn the biodiversity of ecosystems where soft coral grows

### **Outline:**

	<b>TOPIC</b>	<b>HOURS</b>
1	CULTIVATION OF SOFT CORALS	6
2	PROPAGATION TECHNIQUES	9
3	NURSERY IN HATCHERY	6
4	GROWTH IN THE SEA (FIELD TRIP)	9
5	BIODIVERSITY (FIELD TRIP)	6
6	COMMUNITY PARTICIPATION	6
7	REVIEW AND PRESENTATION	3
	TOTAL	45

## **Black salmon: from floating basket to table (45 hours)**

### **Description:**

Introduction to black salmon, Sand crab, and Launaea beach; Site visit; Production of black salmon feed; Black salmon menu

### **Objectives:**

1. To learn and know black salmon in depth
2. To observe and interact with community enterprises with the Bio-Circular-Green Economy model

### **Outline:**

	<b>TOPIC</b>	<b>HOURS</b>
1	INTRODUCTION TO BLACK SALMON, SAND CRAB, AND LAUNAEA BEACH	6
2	SITE VISIT TO FLOATING BASKET TO GROW BLACK SALMON	9
3	BLACK SALMON BREEDING	6
4	SITE VISIT FOR COMMUNITY ENTERPRISE RELATED TO BLACK SALMON	9
5	PRODUCTION OF BLACK SALMON FEED	6
6	BLACK SALMON MENU	6
7	REVIEW AND PRESENTING MY BEST EXPERIENCE IN THE COURSE (CLIP)	3
	TOTAL	45

## **Ecological-based tourism (45 hours)**

### **Description:**

Principles of ecological tourism; Mangrove; Artificial habitat; Fishing; Coral reef; Fisherman village; Trekking

### **Objectives:**

1. To learn the principle of ecological-based tourism
2. To experience various activities relating to ecological tourism in Phuket

### **Outline:**

	<b>TOPIC</b>	<b>HOURS</b>
1	PRINCIPAL OF ECOLOGICAL TOURISM	6
2	MANGROVE	6
3	ARTIFICIAL HABITAT	6
4	FISHING	6
5	CORAL REEF	6
6	FISHERMAN VILLAGE	6
7	TREKKING	6
8	REVIEW AND PRESENTATION	3
	TOTAL	45

## **Community-based Tourism (45 hours)**

### **Description:**

The course provides insights into principles and implementations in community-based tourism (CBT). Challenges in balancing the economic, environmental and social impacts of tourism are explored and discussed with the stakeholders in CBT. Students learn from observing and interacting with various communities that have applied CBT in their areas. Through site visits, students will learn to apply participatory approaches to conduct a SWOT analysis and develop strategic action plans for CBT development in a real setting. Site visits may be altered according to the weather, including but not limited to Phuket Old Town, Kamala, Sustainable Mai Khao Foundation, Sufficiency Economy Learning Center, and Koh Yao Island.

### **Objectives:**

1. To provide insights into principles and implementations in community-based tourism (CBT)
2. To explore and discuss challenges in balancing the economic, environmental and social impacts of tourism with the stakeholders in CBT
3. To learn from observing and interactions with various communities who have applied CBT in their areas

### **Outline:**

	<b>TOPIC</b>	<b>HOURS</b>
1	PRINCIPLES AND IMPLEMENTATIONS IN COMMUNITY-BASED TOURISM (CBT)	6
2	CHALLENGES IN BALANCING ECONOMIC, ENVIRONMENTAL AND SOCIAL IMPACTS OF TOURISM	9
3	SITE VISITS TO VARIOUS COMMUNITIES THAT HAVE APPLIED CBT IN THEIR AREAS, E.G. PHUKET OLD TOWN, KAMALA, SUSTAINABLE MAI KHAO FOUNDATION, SUFFICIENCY ECONOMY LEARNING CENTER, KOH YAO ISLAND, WITH SWOT ANALYSIS AND DEVELOP STRATEGIC ACTIONPLANS	21
4	SELECT AN INTERESTED CBT COMMUNITY, SWOT ANALYSIS, AND DEVELOP STRATEGIC ACTION PLANS, AND CREATING A PRESENTATION	6
5	PRESENTING A STRATEGIC ACTION PLAN FOR CBT FOR AN INTERESTED COMMUNITY	3
6	FISHERMAN VILLAGE	6
7	TREKKING	6
8	REVIEW AND PRESENTATION	3
	<b>TOTAL</b>	<b>45</b>

## **Production of Cultural Foods (45 hours)**

### **Description:**

Introduction to the production of cultural foods; Famous cultural foods and their history; Cooking skills associated with the preparation, Production and presentation of selected cultural foods; Emphasizing both practical labs and theoretical lectures

### **Objectives:**

1. To learn the culture of eastern and western foods
2. To understand, prepare, produce, and present selected Asian and Western cultural foods

### **Outline:**

	<b>TOPIC</b>	<b>HOURS</b>
1	INTRODUCTION TO PRODUCTION OF CULTURAL FOODS	3
2	FAMOUS CULTURAL FOODS AND THEIR HISTORY	12
3	EASTERN CULTURAL FOOD (PRACTICAL CLASSES)	9
4	WESTERN CULTURAL FOOD (PRACTICAL CLASSES)	9
5	THAI CULTURAL FOOD (FIELD TRIP)	9
6	PREPARATION, PRODUCTION, AND PRESENTATION OF FAVORITE CULTURAL FOOD	3
7	TREKKING	6
8	REVIEW AND PRESENTATION	3
	TOTAL	45

## Diving and conservation in Phuket

**Total hours: 45 hours**

### Description:

This course is a one-week program designed to emphasize marine discovery and exploration. We offer a hands-on curriculum that combines marine ecology studies and conservation with field, classroom, offshore and laboratory work. No previous experience is required, and the program is ideal for active learners who would enjoy an exciting education and basic knowledge of Phuket marine resources. This hands-on program seeks to raise awareness about marine environments and stimulate an interest in the sciences through a variety of fun and engaging activities, such as basic freediving and boat trip.

### Objectives:

1. To experience and learn about marine ecology and conservation.
2. To experience an exciting education and basic knowledge of Phuket marine resources.

### Outline:

	TOPIC	HOURS
1	MARINE ECOLOGY (CLASSROOM)	9
2	PREPARATION FOR MARINE DISCOVERY AND EXPLORATION	9
3	MARINE DISCOVERY AND EXPLORATION (FIELD TRIP)	6
4	MARINE CONSERVATION	6
5	BASIC FREEDIVING	6
6	BOAT TRIP	6
7	REVIEW AND TALK ABOUT YOUR EXPERIENCE	3
8	REVIEW AND PRESENTATION	3
	TOTAL	45



**Or**  
**Beach and bush camping**  
**(45 hours)**

**Duration: 4 Days**

**Fee: 12,000 THB/ Person/ Program.**

**Number of participants: At least 10 Persons/ Program.**

**Course Description:**

Learn about camping in beach and bush camp in Southern of Thailand and Thai-style cooking camp.

**Course Objective:**

1. To provide hands-on camping experience in Southern of Thailand.
2. To understand physical landscape, climate, and natural resources characteristics in Southern of Thailand.
3. To explore the use drone for geographic surveying around camping sites

**Course outline:**

	<b>TOPIC</b>	<b>HOURS</b>
1	INTRODUCTION TO CAMPING IN THAILAND	3
2	GUIDE TO CAMPING FIRST AID	3
3	CAMPING EQUIPMENT (HOW TO PITCH A TENT, HOW TO BUILD A FIRE)	3
4	BUSH AND BEACH CAMPING AT PHRATONG AND RA ISLANDS, PHANG-NGA PROVINCE (3 DAYS 2 NIGHTS) - NATURE TRAIL IN BEACH FORESTS, EVERGREEN FORESTS, MANGROVE FORESTS, AND GRASSLAND (GOLDEN GRASSLAND) - STARGAZING ACTIVITIES - TRADITIONAL FISHING - LEARNING AT ORCHID CENTER - RECREATIONAL ACTIVITIES-DRONE FOR CAMPING- THAI-STYLE COOKING AT CAMP	33
5	REVIEW AND PRESENTING MY BEST EXPERIENCE IN THE COURSE (CLIP)	3
	TOTAL	45

# **Freediving Program (16 hours)**

**Duration: 3 Days**

**Budget: 15,000 THB/ Person/ Program**

**Participants: 6 Persons/ Program**

## **Description:**

This is a certification course for beginners. The breathing techniques will be taught in the classroom with practical application in the water to create a fun and successful freediving experience. The course is run over 3 days and is divided into a classroom, pool and open water session. In the classroom session, instructors use an interactive learning environment which helps to improve confidence and prepares you for the pool session. For the open water session, we will spend 1 day on a day trip to the local dive site to train the depth with the dive-line and experience fun dives into the beautiful coral reefs of Phuket Island.

## **Objectives:**

1. To experience and learn about freediving
2. To experience an exciting boat trip at the local dive site

**Course outline:**

	<b>TOPIC</b>	<b>HOURS</b>
1	DAY 1: CLASSROOM SESSION • INTRODUCTION TO FREEDIVING • FREEDIVING TECHNIQUE • EQUALIZATION TECHNIQUES • BREATHING TECHNIQUES • HYDRATION AND DIET	3
2	DAY 1: POOL SESSION • PREPARATION OF EQUIPMENT • PRACTICE BREATHING TECHNIQUE IN THE WATER • PRACTICE EFFICIENT KICKING TECHNIQUE • PRACTICE BODY POSITIONING • BUOYANCY CHECK	2
3	DAY 2: CLASSROOM SESSION • FINE-TUNING THE BREATHING TECHNIQUE • FREEDIVING SAFETY • RESCUE PROCEDURES	2
4	DAY 2: POOL SESSION • PRACTICE OF NEW BREATHING TECHNIQUE • BUDDY TEAM FREEDIVES • SAFETY PROCEDURES AND RESCUE PRACTICE	3
5	DAY 3: OPEN WATER SESSION • BOAT TRIP TO THE LOCAL DIVE SITE • FREEDIVE ON THE DIVE-LINE • FUN DIVE TO EXPLORE THE CORAL REEFS AND TROPICAL FISH	6
	<b>TOTAL</b>	<b>16</b>

## **Plant tissue culture (15 hours)**

**Duration: 2 Days**

**Fee: 4,500 THB/ Person/ Program**

**Participants: Minimum 10 Persons/ Program**

### **Description:**

Theory and applications of plant tissue culture; composition of culture media; environmental influences; growth; practice in plant tissue culture method and medium preparation; sterilization technique; and use of instruments in plant tissue culture

### **Objectives:**

1. To learn the plant tissue culture method under sterilized conditions and how to transfer it to the greenhouse
2. To learn the effect of plant growth regulators on plants under the sterilized condition

### **Outline:**

	<b>TOPIC</b>	<b>HOURS</b>
1	INTRODUCTION TO PLANT TISSUE CULTURE	3
2	MEDIA PREPARATION • EFFECT OF PLANT GROWTH REGULATOR ON PLANTS UNDER THE STERILIZED CONDITION	3
3	STERILIZATION TECHNIQUE 3	3
4	PLANT TISSUE CULTURE METHOD 3	3
5	TRANSFER PLANT TO GREENHOUSE 3	3
	TOTAL	15

# Achieving sustainability with blockchain solutions

## Total hours 15 hours

**Duration: 2 Days**

**Fee: 4,000 THB/ Person/ Program**

**Participants: Minimum 10 Persons/ Program**

### **Description:**

Sustainability development is one of the most challenging problems facing us today. Most agree that aligning the incentives of all stakeholders and increasing participation in sustainability solutions are key success factors. Blockchain solutions have become a cost-effective way to achieve both incentive alignment and increasing participation through decentralization. In this course, we will look at blockchain-based sustainability solutions, both existing and those that are yet to come. Pros/Cons of using blockchain for sustainable development will be discussed. Suitable conditions for when a blockchain solution might be needed will be analyzed.

### **Objectives:**

1. To demonstrate blockchain-based sustainability solutions.
2. To discuss Pros/Cons of using blockchain for sustainable development.
3. To analyze suitable conditions for when a blockchain solution might be needed.

### **Outline:**

	<b>TOPIC</b>	<b>HOURS</b>
1	SUSTAINABLE DEVELOPMENT	1
2	KEY SUCCESS FACTORS	1
3	DIFFICULTY IN ACHIEVING SUSTAINABILITY	4
4	BLOCKCHAIN-BASED SUSTAINABILITY SOLUTIONS	2
5	WHEN A BLOCKCHAIN SOLUTION MIGHT BE NEEDED? PROS/CONS OF USING BLOCKCHAIN	1
6	CASE STUDIES	3
7	REVIEW AND PRESENTATION	3
	<b>TOTAL</b>	<b>15</b>

## Mix and Match

**Duration: 5 Days**

**Fee: 13,000 THB/ Person/ Program**

**Participants: Minimum 10 Persons/Program**

### **Program 1**

Day 1: Community-based tourism

Day 2: Ecological rehabilitation by soft coral

Day 3: Ecological-based tourism

Day 4-5: Plant tissue culture or Achieving Sustainability with blockchain solutions

### **Program 2**

Day 1: Black salmon: from floating basket to table

Day 2: Production of Phuket cultural food

Day 3: Community-based tourism

Day 4-5: Beach camping

### **Program 3**

Day 1-3: Select **three** programs from Programs 1-6

Day 4-5: Select **one** course from Programs 9-10



**Faculty of Technology and Environment  
Prince of Songkla University, Phuket Campus**

80 Moo 1 Vichitsongkram Road, Kathu, Phuket 83120, Thailand

Tel: +66 7627 6000 ext. 6107

Email: [psu-phet@phuket.psu.ac.th](mailto:psu-phet@phuket.psu.ac.th)