

15th APEC Cross Mentoring Research Activity

Research Syllabus

I . Mentor

1. Personal Information

Name	CHOI Byeong-Dae
Mobile Number	+82-10-6670-3974
School or Institute	Gyeongsang National University
E-mail	bdchoi@gnu.ac.kr
Major	Seafood Science and Technology

2. Education

	Year	Name of University	Major	Degree	Nation
Bachelor's degree	1984	Gyeongsang National University	Agricultural Chemistry	BS	Korea
Master's degree	1986	Pukyeong National University	Seafood Chemistry	MS	Korea
Doctorate	1989	Gyeongsang National University	Seafood Chemistry	PhD	Korea
Dissertation	Fish Flavor Composition of Dried Fish				

3. Experiences

Duration	Position	Institute or University
03.1989 -08.1995	Assistant Professor	Gyeongsang National University
09.1995 - 09.2000	Associate Professor	Gyeongsang National University
10.2000 -08.2022	Professor	Gyeongsang National University
09.2022 - present	Emeritus Professor	Gyeongsang National University
09.1992 -08.1993	Visiting Professor	Rutgers University, USA

12.2000 - 02.2001	Visiting Professor	Visayas University, Philippines
08.2020 - 08. 2021	Visiting Professor	Georgia University, USA

4. Honors and Awards

Year	Title	Remarks
2000	Honor Citizen	Tongyeong City
2015	Honorary Fellow	The Korean Society of Biotechnology and Bioengineering

5. Professional Societies

Duration	Position	Institute
01.2000 - 06.2007	CEO	CONDRO Co.,
12.2013 - Present	Director	Tongyeong Regional Center for Education(RCE) Foundation
09.2017-08.2019	Committee of Expert Member	Korea Research Foundation

II. Syllabus

Course Title	Processing of Marine Resources and By-products
Criteria	<input type="checkbox"/> Biology & Applied Biology
	<input checked="" type="checkbox"/> Chemistry
	<input type="checkbox"/> Energy & Environmental Science
	<input type="checkbox"/> Integrated Science
	<input type="checkbox"/> Medicinal Science
	<input type="checkbox"/> Nano Science
	<input type="checkbox"/> Physics
	<input type="checkbox"/> Others ()

1. Course Title & Criteria

- Processing of Marine Resources and By-products
- This could possibly include biosynthesis and analysis of pigments, carbohydrates, minerals, freshness in marine foods and assessment of nutritional value and functional application of marine resources, etc.

2. Course Objectives & Description

After this course, students will be able to

- Sustainable development goals of UN-SDGs, especially marine environment
- Responsible consumption and production, Life below water, Climate action, Processing and storage of fish, Utilization of by-products, etc.
- Present their projects to the public side and publish it in the journal

3. Required Textbook or papers:

Concept of sustainable development goals from UN-SDGs.

4. Final Outcome

Quiz	[V] Due date:
Research plan	[V] Due date:
Final Report	[V] Due date:
Research Article for APEC Youth Scientist Journal	[X] Due date: February 2024

5. Schedule

Week	Topics and Activities	Assignments & Other Instructions
Week 1	Aquaculture and Fishery	
Week 2	Marine Environment	
Week 3	Biofuel	
Week 4	Protein	
Week 5	Lipids	
Week 6	Carbohydrates	
Week 7	Minerals	
Week 8	Processing and Storage	
Week 9	Medicine Sources	
Week 10	Cosmeceutical Sources	
Week 11	Guide mentees to write Research articles for the Journal	
Week 12	Guide mentees to write Research articles for the Journal	
	Mentee should submit their research article to AMGS admin team	