

Bachelor of Science in Environmental Science

ZSCMST



BAGONG PILIPINAS



AREA II

Parameter F: PROFESSIONAL PERFORMANCE
AND SCHOLARLY WORKS

IMPLEMENTATION

I.1 |

Demonstrate Skills and competencies in all
of the following:

I.1.2 reflecting the program outcomes
clearly in the course objectives;



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COLLEGE OF FISHERIES AND MARINE SCIENCES

BACHELOR OF SCIENCE IN ENVIRONMENTAL SCIENCE

OUTCOMES-BASED EDUCATION (OBE) COURSE SYLLABUS IN

**ES 12
 (ENVIRONMENTAL IMPACT ASSESSMENT)**

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I. COLLEGE

Vision: A world-class institution for higher learning, research, development and innovation in fisheries, marine sciences, maritime education, and technology by 2024.

Mission: Provide quality education and relevant research and extension to produce globally competitive human capital for fisheries and marine-based industries.

Core Values: CARE - C-Commitment A-Attitude R-Relationship E-Excellence

II. PROGRAM: Bachelor of Science in Environmental Science

III. INSTITUTIONAL GOALS

1. Develop a breed of qualified graduates with high standards of work ethics and with specialized skills in the field of fisheries, natural and applied sciences.
2. Enhance faculty expertise in their respective disciplines and upgrade instructional facilities.
3. Provide degree of fellowship/training opportunities to faculty and research staff on following areas of concern: computer-based stocks assessment methodologies and research analysis, ecological systems modelling, environmental impact assessment, fish genetics, fish nutrition, development of research tools, technical writing, bio-assay, bio-technology, socio-economic research and research management.
4. Initiate/spearhead the rational exploitation of the region's fisheries and marine resources thru the necessary leadership in multi and inter-disciplinary undertakings, training and development programs.
5. Promote environmental protection and rehabilitation of identified marine ecosystems by developing and implementing an effective resource management program.
6. Coordinate with concerned government and private institutions in the monitoring, evaluation and documentation of the fishery and other marine resources in the primary service area.
7. Conduct basic and applied researches to generate the much-needed information and technology for the fishery/food sector and ecosystem management.

IV. PROGRAM OBJECTIVES

1. Equip students with the appropriate knowledge and skills (technical, managerial and critical thinking) in the sustainable/responsible fisheries and ecosystem management.
2. Enhance the capability of students on the areas of research, extension, and production.
3. Enhance the students the value of commitment, attitude, relationships and excellence.
4. Enhance the students understanding and appreciation of the arts and culture.
5. Strengthen linkages with the fishery/food/environmental industry/sector for OJT and job placement.
6. Increase the passing rate of BSFI students in the Fisheries Technologists Board Examination and;
7. Improve the employment rate of graduates.

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Sample syllabus reflecting the program outcomes/objective(s)



The Course Outcomes (COs) of each subject in the curriculum are carefully designed to be in consonance with the Program Outcomes (POs). This ensures that the knowledge, skills, and values acquired by the students at the course level contribute directly to the attainment of the broader competencies expected of graduates.

COURSE OUTCOMES	PROGRAM OUTCOME																			
	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t
At the end of this course, the students should be able to;																				
1. Know the different principles and concepts of ecology and sustainable development.	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
2. Understand the basic concepts and principles of Environmental Impact Assessment (EIA).	L	L	L	L	L	L	L	L	L	O	L	L	L	L	L	L	L	L	L	L
3. Know the rules, regulations and implementing guidelines of Environmental Impact Assessment (EIA) in the Philippines.	L	L	L	L	L	L	L	L	L	O	L	L	L	L	L	L	L	L	L	L
4. Understand the process and different methodologies of Environmental Impact Assessment (EIA).	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L

5. Know how to identify, predict and assess the impacts of a development project.	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
6. Understand the concepts regarding Environmental Risk Assessment (ERA).	L	L	L	L	L	L	L	L	L	O	L	L	L	L	L	L	L	L	L	L
7. Learn the way and strategies on how to mitigate and monitor the environmental impacts of proposed projects and any affected ecosystems.	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
8. Understand and know the requirements in compliance monitoring, enforcement and permits needed by the projects in compliance with the approved Environmental Compliance Certificate (ECC).	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
9. Understand the framework of social impact assessment.	L	L	L	L	L	L	L	L	L	O	L	L	L	L	L	L	L	L	L	L
10. Undertake and prepare the Environmental and Social Impact Assessment (ESIA).	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	P	P	P	P	P

L – facilitates learning of competency;

P – allow student to practice competency (no input, but competency is evaluated);

O – opportunity for development (no input or evaluation, but competency is practiced)