

Aparri Campus
RDE Banner Programs and Projects
2018-2022

Banner Program: Marine Resources and Fisheries

Research Centers:

- Sustainable Fisheries Research and Development Center
- Integrated Coastal Resource Management Center

Goal: A sustainable center of excellence for aqua-marine through science-based multi-disciplinary researches in support to needs-based extension and science-based instruction in Cagayan Valley Region.

Objectives :

1. To undertake multi- disciplinary researches along fisheries that would support food security and sufficiency, biodiversity, conservation, management, climate change adaption, policy development, etc.
2. To engage with collaborative GAD - responsive researches.
3. To collaborate with other SUC's, industries and agencies along research and extension.
4. To establish SME's and award OBOL grants to deserving and qualified clients
5. To develop and showcase science – based management pattern for aquamarine RDE programs.
6. To subject outputs for IPR and commercialize mature technologies / product developed from research.
7. To conduct capacity building / training of faculty, community and other stakeholders (fishers, farmers).
8. To disseminate RDE outputs through research fora (international, national), publications (Scopus & Thomson Reuters) and IEC materials.

Challenges :

- Fund/Procurement
 - Minimal funds allotted to projects
 - Problems and issues associated to procurement (especially along externally funded)
- Manpower :
 - Motivating faculty to engage in research due to time constraints (faculty loading requirement)
 - Capabilities of faculty in writing publishable research outputs
 - Research culture (IRR on faculty deloading, provision of grants and incentives)
- SUC levelling requirements

Plan strategy:

- Capability and capacity development for faculty members
- Integrated Approach/Collaboration
- Partnership and external linkages

Commodity/Banner Program: Marine Resources and Fisheries

Campus: Aparri

Priorities/ Research Area	Program/Project/Study	TIMEFRAME					EXPECTED OUTPUT				
		2018	2019	2020	2021	2022	2018	2019	2020	2021	2022
Mussel	1. Program title: Improved grow-out technology for a sustainable mussel industry: Project title: Modelling site selection for new area expansion: Study title: Growth performance of green mussel <i>P. viridis</i> transplanted in Cagayan lagoon	Oct. 2015 to Mar 2018					Policy & Publication				
	2. Assessment of Mussel in the Philippines	X	X	X			Process, Product, Publication	Publication	Publication	Policy Publication	
Eel	1. Species Biodiversity of Phillipine eel (<i>Anguilla</i> spp.) a precursor for Management and prospect for sustainable aquaculture 2. Development of culture techniques for swamp or rice eel	X	X	X	X	X	Publication, Policy, Product, Process				

Post - Harvest	1. Development of Post-Harvest Technology for Flying Fish (spp)	X	X								
	2. Product development on Tilapia	X	X					Product Patent Publication Empowered People	Product Patent Publication	Product Patent Publication	People Empowerment
	3. Post – Harvest Technology For Clams (<i>Batissa</i>)	X	X	X							
	4. Product development from aramang			X	X	X					
Freshwater fishes	Philippine Hito Conservation, Management, Enhancement and Extension and Training in Cagayan	X	X					Policy Publication People Empowerment			
Organic Aquaculture	Cagayan State University Aparri Integrated Fishery Enterprise Development through Aquaculture and Post –Harvest Technology	X	X	X	X	X		Empowered People (organization)			
Mechanization	Development of ICT – based application technologies along Fisheries and aquaculture			X					Product Process	Product patent Publication	
Socio – economics	1. Multi- disciplinary researches along fishery	X	X	X	X	X		People Product Process			

	<p>resource assessment and management</p> <ul style="list-style-type: none"> - Fishery laws and enforcement - IEC Education and Training - Financial Management and Entrepreneurship <p>2. ICT – based assessment, data mining and GIS Mapping of economically important species in ACRE.</p> <p>3. Supply Chain Modeling, Prediction, and Analytics of economically important species in ACRE</p>						Policy Publication Patent				
Upgrading Facilities	<ol style="list-style-type: none"> 1. Upgrading of the multi-species land – based hatchery 2. Direct water pumping from the sea 3. Nursery of high value species 4. Upgrading Post-Harvest Facilities (SSF) 		X	X	X	X		Upgraded Facility	Upgraded Facility		
Climate Change	Management of mangroves as a mitigating measure		X	X	X	X	Policy Publication				

	against climate change in Buguey & Sta. Ana, Cagayan						People Empowerment
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*include on-going projects, especially on climate change on marine life, conservation, and management.