John B. Lacson Foundation Maritime University (Arevalo), Inc. Sto. Niño Sur, Arevalo, Iloilo City

Research Utilization

SY: 2019-2020

Title of the	F: 1:	5 1	Person		Results/Impact/
Study & Authors	Findings	Recommendations	Responsible	Action to Take	Evidence
1. Development of a Supplemental Learning Material in Mathematics for Seamanship 2B (Trim and Stability) Ms. Clarence Kay D. Soliva and C/M Teodosio S. Melliza	The results of the study showed that the mathematics concepts embedded in Seamanship 2B lessons were: (1) Integers, (2) Fractions, (3) Decimals, (4) Percent, (5) Algebra, and (6) Trigonometry. It was also found that students have a "Very High" satisfaction towards the supplemental material when taken as a whole and in terms of physical aspects, objectives, learning activities, evaluation procedure, and usefulness. On the other hand, experts were of the opinion that the supplemental learning material has a "Very High" acceptability when taken as a whole and in terms of physical aspects, objectives, and usefulness. However, experts found that it only has a "High" acceptability in terms of learning activities, and evaluation procedure. Thus, the supplemental learning material in Seamanship 2B is appropriate,	The university may use this supplemental learning material in improving students' mastery of important mathematics lessons needed in Seamanship 2B. Similarly, future researchers may conduct an experimental study to determine if the use of this supplemental learning material may improve students' academic performance in Seamanship 2B or another developmental research to produce similar supplemental learning materials for other maritime and general education subjects.	2/M Venerando C. Lamasan, Ph.D.	Increase the number of units of NGEC 9 (Mathematics, Science, and Technology) from 3 units to 5 units to give the students more hours to do different mathematical exercises in order to enhance their skills in solving mathematical problems which will be used onboard ship.	NGEC 9 Instructor's Guide (IG)

	relevant, and useful		
	in general and in		
	terms physical		
	asposts objectives		
	aspects, objectives,		
	learning activities,		
	and evaluation		
	procedure. It has		
	also met the		
	expectations and		
	standards of chosen		
	experts as reflected		
	on their evaluation		
	rating.		
	racing.		
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Study & Authors	Findings	Recommendations	Responsible	Action to Take	Evidence
2. Basic Swimming Skills Enhancement: The Development and Use of SHS Physical Education Instructional Guide Dr. Emily T. Galo and Mr. June Raymund Peter V. Flores	Results showed that in the pretest, the control group had a higher mean than the experimental group and the Mann-Whitney test showed that there was a significant difference between the two groups. Result showed that there was no significant difference in the pretest of the control and experimental group before the treatment but when the treatment was introduced, findings showed that there were significant differences in the swimming skills in the pretest and posttest of experimental and control groups as well as in the posttests of both groups. The developed instructional guide improved the basic swimming skills endurance of the respondents. Though description on the skills in swimming speed did not significantly changed, statistically, a significant difference was noted indicating that enhancement of skills was attained.	Based on this result, it can be implied that the instructional guide is an effective instructional tool in improving students' basic swimming skills.	Responsible Dr. Corazon P. Brown	Instructional Guide in Swimming be used in PE classes of Grade 12 SHS	Improved swimming skills and endurance by SHS students

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3. Teachnology: The Impacts of Technology- assisted Instruction on the Academic Performance and Satisfaction of Selected BSMT Students Mary Mae Jun P. Esmaya, Eppie May F. Frial, and Cecilia C. Salinas	Results showed that the grand average GWA in prelim was 87.25%, 90.17% for midterm, and 88.46% in the tentative final. Specifically, the average prelim GWA are as follows: Blackwall - 86.67%, Bowline - 86.65%, Carrick Bend - 84.79%, Lineman's Knot - 87.98% and Polaris 1B - 90.15.	Based on the aforementioned findings, the following recommendations are directed to: 1. Students. They must be given more opportunities to explore the learning process. They should not only be limited to learning within the four walls of the classroom. They should as well keep	2/M Venerando C. Lamasan, Ph.D.	JA applied for the development of IDIG to open its door in the blended learning using the online approach. The instructors were trained to upload modules, use, and manipulate the Blackboard platform	Use of Blackboard OLMS to all courses facilitated by the e-learning Center.
Cecilia C. Salinas	On the other hand, the average midterm GWA are as follows: Blackwall - 89.05%, Bowline - 91.20%, Carrick Bend - 87.56%, Lineman's Knot - 90.08% and Polaris 1B - 92.95%. It appears that the average midterm GWA increased as compared to the average prelim GWA. Furthermore, the average tentative final GWA are as follows: Blackwall - 87.90%, Bowline - 88.28%, Carrick Bend - 84.82%, Lineman's Knot - 87.80% and Polaris 1B - 93.48%. Meanwhile, the grand average (combination of terms) per section are as follows: Blackwall - 87.87%, Bowline - 88.71%, Carrick Bend - 85.75%, Lineman's Knot - 88.62% and Polaris 1B - 92.19%. In addition, there	pace with their own learning through the use of technology. Other platforms should be introduced to them in order to develop their skills in manipulating technology which is one of the key skills required for millenials. 2. Instructors. They must be given training opportunities in the use of the different technology platforms used in teaching and learning activities. They must be made aware of the different uses of technology in facilitating learning. They must be adept in using technology in advancing quality education. 3. Administration. Top management should provide budget in purchasing technology facilities and equipment as well as training opportunities	Dr. Corazon P. Brown	Students should be exposed to learning opportunities and methodologies To be included in the Training Plan for SY: 2019-2020	More competent students who are adept in the use of technology as a tool for learning. Training Plan for SY: 2019-2020
	In addition, there was a significant difference in the grand average GWA	opportunities especially for teachers who will serve as facilitators			

in the subject	in the learning		
Understanding the	process.		
Self among selected	process.		
BSMT students when			
classified according			
to section.			
Bonferroni test for			
multiple			
comparisons			
revealed that			
Polaris 1B students			
had the highest			
average GWA while			
Blackwall and			
Carrick Bend had			
the lowest average			
GWA. On the other			
hand, the following			
are the key			
determinants that			
affect the			
satisfaction of the			
students in the use			
of technology for			
the subject			
Understanding the			
Self: accessibility,			
facilitate			
integration of			
learning, eco-			
friendly learning			
style, time saver,			
and compilation of			
documents is made			
easy. The trend of			
the grand average			
GWA per term, from			
87.5 % (prelim)			
increased to 90.17%			
(midterm), and			
slightly decreased			
to 88.46% (tentative			
final) showed that			
the effective use of			
technology had an			
impact the			
performance of			
students in the			
subject			
Understanding the			
Self. There was an			
increase in the			
grand average GWA			
from 87.5 %			
(prelim) which			
increased to 90.17%			
(midterm) because			
students were			

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adept in the use of		
technology since it		
was introduced to		
them during the		
prelim. Moreover,		
their focus was not		
disrupted because		
very minimal school		
activities took place		
during the prelim		
and midterm. There		
was a slight		
decrease in the		
tentative final GWA		
(88.46%) due to lack		
of submission of the		
activities and tasks.		
This was caused by		
lack of focus		
because it was		
during the tentative		
final term that a lot		
of school activities		
took place. The		
variations in the		
grand average GWA		
per section (Pol 1B -		
92.19%, Bowline -		
88.71%, Lineman's		
Knot- 88.62%,		
Blackwall - 87.87%,		
and Carrick Bend-		
85.75%) showed		
that the label of		
section to which		
students are		
assigned affect how		
they also perform.		
Their performance		
showed that they		
perform according		
to whether they are		
in the top section or		
not. This also		
showed that the		
sectioning of		
students by the		
Dean's Office allows		
students to be		
grouped		
accordingly.		

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Study & Authors	Findings	Recommendations	Responsible	Action to Take	Evidence
4. Peer Mentoring: A Teaching Strategy in Improving Students' Attitude Towards Mathematics Ms. Mary Joy M. Anas and 2/M Josito Cordero	The results of this study revealed that the students' attitude towards Mathematics in pretest and posttest was "Positive." This means that students were confident enough and can solve mathematical problems. There was also a significant difference in students' attitude before and after peer mentoring. Thus, peer mentoring has a positive impact to the students in terms of their attitude towards Mathematics.	In the light of the results and conclusions, the following recommendations are offered: 1. Students are encouraged to participate in peer mentoring activities. 2. Mathematics teachers are encouraged to use peer mentoring as a teaching strategy. 3. Teachers must determine the academic performance in Mathematics with the use of peer mentoring. 4. School administrators and curriculum makers may consider strengthening the implementation of peer mentoring.	Dr. Corazon P. Brown	Give more importance to peer mentoring to enhance the institution in the classroom	Students who have concern for their fellow students, who unselfishly give their time to mentor their peers

Title of the			Department		Results/Impact/
Study & Authors	Findings	Recommendations	Department Concerned	Action to Take	Evidence
5. Minimizing Grade 11 Student's Absenteeism Through Counselling Ms. Auredlene T. Enriquez and C/M Carlos III D. Victoriano	The results of the study showed that before the intervention, 18 students were recorded out of 42 as absent for four weeks. Meanwhile, after the intervention, only seven out of 42 were absent for four weeks. Moreover, there was a significant difference in the attendance of the students before and after the intervention which simply means that counselling as an intervention is effective.	The following recommendations were drawn: 1. Instructors must apply counselling upon the early signs of chronic absenteeism to increase the school attendance of the students which greatly affects their academic standing. 2. It is imperative to reach these atrisk students early using counselling to ensure that students attend school on a regular basis since it is necessary for them in reaching their full potential. 3. Instructors must provide other forms of interventions such as positive reinforcements like immediate rewards and incentives for students to attend school with higher frequency. 4. Some interventions must be used to target a particular factor causing absenteeism after it was addressed. Students struggling with absenteeism are often struggling in more than one facet of life. Therefore, addressing absenteeism becomes a channel through which we can provide support and encouragement to students in need.	Dr. Corazon P. Brown	The SHS recognizes the importance of counselling. The parents are notified immediately when students make 2 or more absences. Advisers go out of their way to talk to their students to emphasize the importance of being in school.	Lesser dropouts which are caused by absenteeism

Title of the			Department		Results/Impact/
Study & Authors	Findings	Recommendations	Concerned	Action to Take	Evidence
6. Difficulties Encountered in Seamanship 1 During Academic Assessment Ms. Grail D. Funtanilla and 2/M Joel J. Malaya	The results of the study revealed that the most common difficulty encountered by the students in Seamanship I during academic assessment is the graphics found in the assessment. Graphics and illustrations were unclear and confusing and the time allotted for the exam was not enough.	The researchers further recommend that: 1. Thorough review of the items in the assessment should be done specifically focusing on the illustrations or graphics. 2. Further researches are to be conducted regarding the other difficulties that students encounter in the different competencies of the academic assessment of all year levels. 3. Further researches must be conducted giving emphasis on content of the assessment subject for item analysis especially to those school years where students got low percentages. 4. Finally, this is recommended to be used as an added conceptual material for teachers and students who study and need to study on the similar field.	2/M Isidro T. Estremadura, Ph.D.	The said issue was already resolved. The Assessment instrument was saved in the computer as power point file for clearer image viewing for the assessment takers. The time allotment is 45 minutes for 60 items of identifying parts of the ship which is very basic for BSMT students.	The control of the co

Title of the	Findings	Recommendations	Person Responsible	Action to Take	Results/Impact/
7. Review of the Performance of the JBLFMU-Arevalo Students in Maritime School Assessment Program for 2018 Ms. Pamela R. Ganza and 2/M Jerry A. Alingalan	The assessment results indicated that the scores obtained in the recent 2018 MSAP varied and had an above average remarks. In the Achievement Test, both BSMT scholar and non-scholar students who took the MSAP examination earned low scores in the Mathematics subject. Meanwhile the results for Aptitude Test showed that both BSMT scholar and non-scholar students obtained high and above average rating. In the Technical Test, it showed that BSMT non-scholar students have better scores. BSMT scholar students attained the highest mean score among the Aptitude Test in the Number and Letter Series. The second highest scores of BSMT student MSAP takers for 2018 were obtained from the Technical Test in the Number and Letter Series. The second highest scores of BSMT student MSAP takers for 2018 were obtained from the Technical Test in the Number and Letter Series. The second highest scores of BSMT student MSAP takers were above average rate attained by the BSMT student MSAP takers were above average. All three categories such as Achievement Test, Aptitude Test and Technical Test indicated that there	It is recommended that both BSMT scholar and non-scholar students should be given more intensive review in the Mathematics subject. In addition, BSMT non-scholar students must also focus in Science where they also found difficulty. The BSMT student MSAP takers need to maintain the results that they obtained in MSAP 2018 while more improvements are needed with the skills in the Technical Test. Lastly, the BSMT non-scholar MSAP takers should be given more attention especially in the review.	2/M Venerando C. Lamasan, Ph.D.	Course review should be conducted prior to sending the students to participate in the MSAP Assessment Program.	Evidence

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were significant			
differences from			
the results of BSMT			
scholar students			
and BSMT non-			
scholar students. In			
Achievement Test			
subjects the result			
showed that there			
was a significant			
difference in the			
overall scores of			
BSMT scholar and			
non-scholar			
students. There			
were significant			
differences in			
English and			
Mathematics while			
there was no			
significant			
differences			
between the scores			
of BSMT scholar and			
non-scholar			
students in Science.			
On the other hand			
however, the			
overall results of			
the Aptitude Test			
showed that there			
was a significant			
difference in the			
scores achieved by			
the BSMT scholar			
and non-scholar			
students which can			
be inferred that			
even though BSMT			
student MSAP takers			
of 2018 attained			
higher scores in the			
Aptitude Test, the			
scores varied from			
each other. Out of			
the four subjects			
included in the			
Technical Test,			
there were			
significant			
differences for			
Watchkeeping with			
Colreg and			
Navigation and with			
no significant			
differences for			
Cargo Handling and			
Stowage and Safety			
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	and Environmental		
	Protection. Based		
	on the results		
	stated above, this		
	study concluded		
	that the BSMT		
	scholar students		
	obtained higher		
	scores than the non-		
	scholar students.		
	Furthermore, the		
	results showed that		
	both the BSMT		
	scholar and non-		
	scholar students		
	found Mathematics		
	under the		
	Achievement Test		
	as the most difficult		
	subject. Aside from		
	this, the BSMT non-		
	scholar students		
	also experienced		
	difficulties in		
	Science which also		
	under the		
	Achievement Test		
	category.		
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Title of the			Person		Results/Impact/
Study & Authors	Findings	Recommendations	Responsible	Action to Take	Evidence
8. Cooperative Learning: Students' Attitude Towards Disaster Readiness and Risk Reduction Ms. Richen Mae M. Taba and 2/M Frank C. Capaciete	The findings of this study revealed that the mean score of the respondents' pretest was lower compared to the results of the posttest. Nevertheless, the students' attitude before and after the intervention was "Positive." This means that students find that working in groups gives opportunities to express their opinions. Furthermore, there is better quality for the work is divided equally. Moreover, there was a significant difference in the students' attitude before and after the intervention. The findings simply showed that using cooperative learning as a strategy makes a difference in the students' attitude towards DRRR.	In view of this, it is recommended that teachers should utilize cooperative learning in other areas to enliven the teaching-learning process, encourage participation among students, collaborate ideas based from prior one, and heighten students' attitude in all courses with proper supervision.	Dr. Corazon P. Brown	Emphasize and constantly use cooperative learning	Development of a more active class where members are used to working together in order to deliver excellent results.

Study 6 Authors 9 C. Canonical Correspondence Analysis of Mecommendations of Carespondence Analysis of Moltusks and the Physico-Chemical Physi	Title of the			Person		Results/Impact/
Correspondence Analysis of Mollusks and the Physico-Chemical Parameters in Igang Bay Marine Sanctuary, Guimars, Phitippines Mollusks and the Physico-Chemical Parameters in Igang Bay Marine Sanctuary, Guimars, Phitippines Mollusks and the Phitippines Mollusks and the Physico-Chemical Parameters in Igang Bay Marine Sanctuary Additionally, the benthic composition and physico- chemical parameters were not found to influence the community structure. Further research needs to be conducted to determine which anthropogenic factors are negatively affecting the bivalves and gastropods of the seagrass beds in Igang Bay. Mollitonally, the berease same to the labks is <1 however, these specific conclusions we recommend that the sorders of the IBMS are expanded to include the heatther seagrass community and between the bivalves and gastropods of the seagrass community and between the bivalves and gastropods of the seagrass community and between the bivalves and gastropods of the seagrass community and between the bivalves and gastropods of the seagrass community and between the bivalves and gastropods of the seagrass community and between the bivalves and gastropods of the seagrass community and between the bivalves and gastropods of the seagrass community and between the labks is <1 however, these specific conclusions we recommend that the borders of the IBMS are expanded to include the heathier seagrass community and between the labks is <1 however, these specific conclusions we recommend that the borders of the IBMS are expanded to include the heathier seagrass community and between the bivalves and gastropods of the saad public Beach in Guimaras, Philippines to protect this fragile community. Recommendations for Future Studies: The methods used for this study are more appropriate for a large, healthy, and dense seagrass bed. As the sites for this study are more quadrats with a reduced distance between transacts. As physico- chemical parameter values measured the bivalves and gastropado for the sample the bivalves an		Findings	Recommendations		Action to Take	
the community (composition,	9. Canonical Correspondence Analysis of Mollusks and the Physico-Chemical Parameters in Igang Bay Marine Sanctuary, Guimaras, Philippines Kristen J. Sora, Engr. Roberto Neal S. Sobrejuanite, and Dr. Brian Gil S.	This study found that after eight years, the sites within the IBMS are comparatively the same outside in terms of diversity and even community. Additionally, the benthic composition and physico-chemical parameters were not found to influence the community structure. Further research needs to be conducted to determine which anthropogenic factors are negatively affecting the bivalves and gastropods of the seagrass beds in	Recommendations for IBMS: Stronger management measures need to be in place as the seagrass bed within the IBMS is <1 hectare and is in decline. However, these specific measures cannot be identified until more research is conducted to determine the reasons for this decline. Secondly, from our conclusions we recommend that the borders of the IBMS are expanded to include the healthier seagrass community at Alubijod White Sand Public Beach in Guimaras, Philippines to protect this fragile community. Recommendations for Future Studies: The methods used for this study are more appropriate for a large, healthy, and dense seagrass bed. As the sites for this study were small with many patches of bare sediment, future studies in the IBMS should include more quadrats with a reduced distance between transects. As physico-chemical parameter values measured for both site, other factors must be affecting the community	Responsible Dr. Shirley	The system-wide CES will work with a new partner to help rehabilitate some areas of the Igang Bay Marine Sanctuary that need to be strengthened. Also, through our collaboration with the Marine Institute, Canadian interns assigned to us can help us undertake researches based on the recommen-	Evidence A proposed partnership with GIZ is very positive since this March 2020, a planning workshop along this area has already been

	diversity, evenness,		
	density), seagrass		
	canopy height, or		
	ecosystem services		
	(protection,		
	structure, food,		
	structure, rood,		
	niches). Other		
	anthropogenic		
	influences onto the		
	seagrass beds to be		
	studied include:		
	tourism, pollution,		
	or fishing at the Villa		
	Igang Beach Resort		
	and Alubijod White		
	Sand Public Beach.		
	Janu Fublic Deach.		
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Title of the Study & Authors	Findings	Recommendations	Person Responsible	Action to Take	Results/Impact/ Evidence
Physico-chemical Characteristics of Iloilo Batiano ca River, Philippines: A Baseline Study for Fu an Bartimeues Nathan diff Wiederhold, Tom Lichtenberg, Dr. Roderick R. Germo, and Dr. Brian Gil S. Sarinas from Itologia (Proceedings)	esults revealed nat ECC, emperature, and alcium content of the river exceed neir limits except or pH level. The reverse statistically ifferent except for H values. This roudy concludes nat the river is ighly polluted and requires attention from all sectors of ociety.	The city government of Iloilo must focus its attention in saving Batiano River. A water filter and litter trap can be placed in the middle of Stations 1 and 2, then at the middle of Stations 5 and 6, and finally, at the end point of Station 6 to filter wastes and litter before these get further downstream or even flow into the Iloilo Strait. Secondly, saltwater intrusion can be countered by lowering the high amount of extracting of freshwater from the groundwater system. Furthermore, different stakeholders such as the Local Government Units (LGU's), private sectors, and residents must strategize to save Batiano River before it's too late.	Dr. Shirley G. Hampac	1. Encourage more collaborators in the clean-up drive 2. More education should be given to the residents surrounding the river 3. JA to sustain the implementation of the "Adopt a Linis Estero" program in collaboration with DENR and other stakeholders.	Another study should be done as a follow up of the previous study to determine improvement or decline of the water quality in Batiano River. A copy of the results of the study will be given to the LGU and the DENR-EMB 6

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Research Coordinator