



**RESEARCH ACCOMPLISHMENT REPORT  
 (January – March 2019)**

**HIGHLIGHTS OF ACCOMPLISHMENTS**

**I. Research & Development Programs/Projects Implemented**

**A. Researches conducted in 2019 & fund sources**

Table 1a. List of Externally Funded R&D Programs/Projects Implemented CY 2019

CAMPUS	TITLE OF PROJECT/STUDY	PROPONENTS	LOCATION/ IMPLEMENTING UNIT	SOURCE OF FUND	Approved Budget	Duration		Financial Statement		Brief Summary of Accomplishment	Remarks
						Date started	Date to Complete	Unexpended Budget	Expended Budget		
<b>COMPLETED</b>											
	1. KABUTEHAN SA NIYOGAN: Optimized Production of Different Mushroom Species from Coconut-Based Biomass	Dr. Urdujah A. Tejada	CSU-Sanchez Mira	CHED	12,048,750.00	2019	2020				
<b>ON-GOING</b>											
	1.										
	2.										

*Note: Please fill up correctly the duration of study/projects*

Table 1b: List of Institutionally Funded R&D Programs/Projects Implemented (Special Budget-Fund 164)

CAMPUS	TITLE OF PROJECT/STUDY	PROPONENTS	LOCATION/ IMPLEMENTING UNIT	SOURCE OF FUND	Approved Budget	Duration		Financial Statement		Brief Summary of Accomplishment	Remarks
						Date started	Date to Complete	Unexpended Budget	Expended Budget		
<b>COMPLETED</b>											
	1. Level of Disaster	Mr. Melvin S.	Sanchez Mira	Fund 164	Php 3,000.00	January	March	0	Php		Completed,

CAMPUS	TITLE OF PROJECT	PROPOSERS	LOCATION/ INSTITUTION	SOURCE OF FUND	Approved Budget	Duration		Financial Statement		Brief Summary of Results	Remarks
						Start	End	Actual	Approved		
	Preparedness of Indigenous People Communities in Snachez Mira, Cagayan	Atayan				2018	2019		3,000.00		with S.O.
	2. Land Suitability Assessment of Coconut in Cagayan Valle Using GIS and Analytic Hierarchy Process	Engr. Shirly O. Agcaoili	CSU-Sanchez Mira	Fund 164	Php 5,000.00	January 2018	March 2019	0	Php 5,000.00		Completed, with S.O..
	3. Sensory Acceptability of Sesbania Flower for Burger Patty	Mr. Arvin Iquin	CSU-Sanchez Mira	Fund 164	Php 5,000.00	January 2018	March 2019	0	Php 5,000.00		Completed, with S.O.
	4. Teachers' Teaching Style: Their Relationship to Students' Learning Styles	Dr. Remelyn C. Bautista	CSU-Sanchez Mira	Fund 164	Php 2,000.00	January 2018	March 2019	0	Php 2,000.00		Completed, with S.O.
	5. Efficacy of Dorsata Honey as a Mixed Carbon Source on Bacterial Cellulose Production from <i>Acetobacter xylinum</i>	Dr. Shella B. Cacatian	CSU-Sanchez Mira	Fund 164	Php 5,000.00	October 2018	March 2019	0	Php 5,000.00		Completed, with S.O.
	6. Research Challenges and Opportunities Among CSU-SM Faculty Members	Dr. Eleanor L. Cacacho	CSU-Sanchez Mira	Fund 164	Php 5,000.00	April 2015	March 2019	0	Php 5,000.00		Completed, with S.O.
	7. Classroom Management Strategies of Teachers as	Dr. Rodel Franciso T. Alegado	CSU-Sanchez Mira	Fund 164	Php 2,000.00	January 2018	March 2019	0	Php 2,000.00		Completed, with S.O.



CAMPUS	TITLE OF PROJECT/STUDY	PROPONENTS	LOCATION/ IMPLEMENTING UNIT	SOURCE OF FUND	Approved Budget	Duration	Financial Statement	Brief Summary of Accomplishment	Remarks
	Affected by Students' Diversity								
8. ON-GOING									
	1.								
	2.								
	3.								

Note: Please fill up correctly the duration of study/projects

### B. On-going Researches 2019

Table 2. List of On-going Researches for CY 2019

TITLE OF PROJECT/STUDY	PROPONENTS	LOCATION/ IMPLEMENTING UNIT	SOURCE OF FUND	Approved Budget	Duration		Financial Statement		Brief Summary of Accomplishment	Remarks
					Date started	Date to Complete	Unexpended Budget	Expended Budget		
1.									•	
2.									•	

### C. Completed Researches in 2019

Table 3. List of Completed Projects/Studies CY 2019

Campus	Title of Study	Thematic Area	Project Leader/Study Leader	Budget	Source of Fund	No. of Months	Duration	
							Date Started	Date Ended
	1. Istorya ti Naggapuan: Textual Analyses of Ilokano Legends	Language	Louie B. Villanueva		-	7 mos.	June 2018	January 2019
	2. The Designed Gamification Application Architecture and Elements for a C# Programming Course	Information Technology	Lourdes M. Padirayon		-	7 mos.	July 2018	February 2019
	3. An Investigations on the Motivations of the Children in Conflict with the Law to Finish the Rehabilitation Program	Criminal Justice Administration	Jose Sherief O. Panelo		-	7 mos.	August 2018	March 2019
	4. Design and Fabrication of Improvised Intrusion Alarm Device	Criminal Justice Administration	Carlito R. Fagela, Jr.		-	7 mos.	August 2018	February 2019

### D. Review and Evaluation of Research Proposals



**Table 4. List of Proposals Evaluated for CY 2019**

Campus	Title of Paper	Academic Program	Proponent	Budget	Source of Fund	Duration		Status/
						Date Started	Date Ended	
	1. Enhancement of Solid Waste Management program of CSU-SM	Social Science	Jane Gladys C. Abran-Monje Dr. Narcitas B. Ouano Ronald L. Cachero			2019	2020	
	2. Production, Characterization and Workability of Biological Dye from Local Berries	Natural Science	Dr. Shella B. Cacatian			2019	2020	
	3. Adaptability of Stevia under Sanchez Mira, Cagayan Condition	Agriculture	Dr. Eleanor L. Cacacho Mrs. Ellaine Cheer C. Pacris			2019	2020	
	4. Management Practices and Financial Performance of Micro-Small-Medium Enterprises (MSME)	Social Science	Christie Melflor L. Aguirre			2019	2020	
	5. Design, Fabrication and Evaluation of Instructional Mock up Ignition system of automobile	Industrial Technology	Jayson S. Tebes Elmar Doca Manny S. Alipio			2019	2020	
	6. Awareness of the College of Teacher education Students on Effective Teacher Competencies: Basis for Enhancing the Teaching Profession Course	Social Science	Dr. Melba B. Rosales			2019	2020	
	7. Children under Juvenile Justice Intervention of North-western Cagayan: A Case Study	Social Science	Jose Sherief O. Panelo Melvin S. Atayan Carlito R. Fagela			2019	2020	
	8. Design, Fabrication and Testing of Wireless Security Alarm System	Industrial Technology	Michael A Manuel Dr. Manny S. Alipio Mark Paul A. Covita			2019	2020	
	9. Life Behind Bars: A Qualitative Analysis of the Experiences of Women Offenders at Sanchez Mira Provincial Jail Extension	Social Science	Jose Sheriff O. Panelo Melvin S. Atayan Carlito R. Fagela, Jr.			2019	2020	

**II. Research Monitoring and Evaluation**

**A. R&D In-house Review**

**Table 5. List of Completed and On-going Projects Evaluated during Agency In-House Review for 2019**

Campus	Title of Paper	Academic Program	Proponent	Budget	Source of Fund	Duration		Status
						Date Started	Date Ended	

Campus	Title of Paper	Academic Program	Proponent	Budget	Source of Fund	Duration		Status
						Date Started	Date Ended	
<b>Agricultural, Fisheries, Engineering, ICT, Climate Change (Session B)</b>								
	1.							
	2.							
	3.							
<b>Higher Education/Social Science (Session A)</b>								
	1.							
	2.							
	3.							

### B. Awards and Incentives

**Table 6. Awards received by researchers of best papers 2019**

Awards Received	Title	Researcher(s)	Campus	Category
Best Paper Presenter	Design and Fabrication of Improvised Intrusion Alarm Device	Carlito R. Fagela, Jr., Melvin S. Atayan, Jose Sherief O. Panelo	Sanchez Mira	Criminology
Best Researcher in Product Development Research	Development and Innovation of Crayon Recycling Device	Michael A. Manuel, Jane Gladys A. Monje	Sanchez Mira	Product Development
Best Researcher in Biology	Physico-Chemical Characteristics of Cottage Cheese from Coconut Products and Carabao's Milk	John Lester T. Tabian	Sanchez Mira	Experimental

### C. SEARCH for Best Undergraduate Thesis

**Table 7. List of winning papers during the 2019 search for best undergraduate thesis**

Category	Title of the Thesis	Author/s	Campus
Experimental			
Technical			

### R & D Outputs Dissemination



## A. Research Outputs Presentations in Conferences/Fora/Symposium

Table 8. List of Papers presented within January- December 2019 in international, national and local fora/conferences.

Campus	Researcher(s)	Title of Research Paper	Duration		Title, Venue and Date of Conference Where the Research Output Was Presented			Organizer	Type of Conference
			Date Started (Mo. & Year)	Date Completed (Mo. & Year)	Title	Venue	Date		
<b>INTERNATIONAL FORA/CONFERENCES</b>									
	Shirly O. Agcaoili.	1. Geographic Information System-Based Suitability Analysis for Potential Shallow-Tube Well Irrigation Development	August 2015	May 2017	International Research Conference on Innovation, Technology, and Suitability	Malate, Manila, Philippines	January 24-25, 2019	International Conference on Innovation, Technology and Sustainability	International
	Shella B. Cacatian	2. Membership in Professional Organizations: An Exploration of Teachers' Benefits, Attitude and Motivations	July 2016	March 2017	1 <sup>st</sup> International Research and Education Summit (IRES 2019)	Quezon City, Philippines	February 24-26, 2019	Global Researchers Association and Convergence for Excellence (GRACE) Inc.	International
	Lyndon John V. Guittap	3. Production, Proximate Analysis and Functional Properties of Dragon Fruit Peel Powder	April 2018	November 2018	1 <sup>st</sup> International Research and Education Summit (IRES 2019)	Quezon City, Philippines	February 24-26, 2019	Global Researchers Association and Convergence for Excellence (GRACE) Inc.	International
	Jane Gladys A. Monje	4. Waste Assessment Audit at CSU-Sanchez Mira	June 2017	January 2018	1 <sup>st</sup> International Research and Education Summit (IRES 2019)	Quezon City, Philippines	February 24-26, 2019	Global Researchers Association and Convergence for Excellence (GRACE) Inc.	International
	Louie B. Villanueva	5. Istorya ti Naggapuan: Textual Analyses of Inlocano Legends	June 2018	January 2019	1 <sup>st</sup> International Research and Education Summit (IRES 2019)	Quezon City, Philippines	February 24-26, 2019	Global Researchers Association and Convergence for Excellence (GRACE) Inc.	International

	Allan O. De la Cruz	6. Analyses and Conservation Strategies of Indigenous Ilokano Folksongs in Northwestern Cagayan, Philippines	January 2017	December 2017	3 <sup>rd</sup> International Recoletos Research Congress	Cebu City, Philippines	March 4-6, 2019	University of San Jose-Recoletos	International
	Jose Sheriff O. Panelo	7. An Investigation of the Motivations of Children in Conflict with the Law	June 2018	February 2019	3 <sup>rd</sup> International Recoletos Research Congress	Cebu City, Philippines	March 4-6, 2019	University of San Jose-Recoletos	International
<b>NATIONAL FORA/CONFERENCES</b>									
	Melvin S. Atayan, Carlito R. Fagela, Jr., Jose Sherief O. Panelo	1. Level of Awareness and Participation of the Barangay Officials in Crime Prevention Activities: A Basis for Enhancement Program	March 2017	December 2017	3 <sup>rd</sup> FACCI National Convention and Criminological Research	CSU-Andrews, Tuguegarao City	February 27-28, 2019	Federation of Authors in Criminology and Criminal Justice, In., (FACCI)	National
	Carlito R. Fagela, Jr., Melvin S. Atayan, Jose Sherief O. Panelo	2. Design and Fabrication of Improvised Intrusion Alarm Device	August 2018	February 2019	3 <sup>rd</sup> FACCI National Convention and Criminological Research	CSU-Andrews, Tuguegarao City	February 27-28, 2019	Federation of Authors in Criminology and Criminal Justice, In., (FACCI)	National
	Jose Sherief O. Panelo Melvin S. Atayan, Carlito R. Fagela, Jr.	3. Children Under Juvenile Justice Intervention: A Case Study	August 2017	June 2018	3 <sup>rd</sup> FACCI National Convention and Criminological Research	CSU-Andrews, Tuguegarao City	February 27-28, 2019	Federation of Authors in Criminology and Criminal Justice, In., (FACCI)	National
<b>LOCAL FORA/CONFERENCES</b>									
		1.							
		2.							
		3.							

### B. Technology Commercialization

Table 9. List of research outputs in the last three years utilized by the industry or by other beneficiaries

Campus	No. of technology(ies)	Technology	No. of Adaptors
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### C. Publication and Intellectual Property Application

Table 10. List of research outputs published in international, national and local Journals/proceedings CY 2019

Campus	Author(s)	Title of Article	Name of Book/Journal	Editor(s)	Date Started (Mo. & Year)	Date Completed (Mo. & Year)	Vol. No./Issue No.	Number of Pages	ISSN/ISBN Number	Year of Publication	Name of Publisher	Indicate where the Research Journal was recognized (Scopus / Science Direct / Thomson Reuters / Elsevier / CHED Accred Journal)
<b>REFEREED INTERNATIONAL JOURNAL</b>												
	Shirly O. Agcaoili	1. Geographic Information System-Based Suitability Analysis for Potential Shallow-Tube Well Irrigation Development	Recoletos Multidisciplinary Research Journal	Dr. Agnes C. Sequino	August 2015	May 2017	Vol. 6, Issue 2	35-49	Print ISSN 2423-1398, Online ISSN 2408-3755	2019	Recoletos Multidisciplinary Research Journal	CHED-Accredited Research Journal
	Jane Gladys A. Monje & Michael A. Manuel	2. Development and Innovation of Crayon Recycling Device	Indian Journal of Science and Technology	Prof. Natarjan Gajedran, Ph. D.	August 2017	June 2018	Vol. 12, Issue 2	1-5	Print ISSN 0974-6846, Online ISSN 0974-5645	2019	Indian Journal of Science and Technology	Thomson Reuters
	John Lester T. Tabian	3. Physico-Chemical Characteristics of	Indian Journal of Science and	Prof. Natarjan	January 2018	June 2018	Vol. 12, Issue 2	1-8	Print ISSN 0974-6846, Online ISSN	2019	Indian Journal of Science and	Thomson Reuters





		Cottage Cheese from Coconut Products and Carabao's Milk	Technology	Gajedran, Ph. D.					0974-5645		Technology	
Lourdes M. Padirayon. Melidiosa V. Pagudpud, Josephine S. De la Cruz	4.	Exploring Constructivism Learning Theory Using mobile Game	Materials Science and Engineering	M. Andri Setiawan	December 2017	November 2018	Vol. 482	7	DOI:10.1088/1757-899X/482/1/012004	2019	IOP Publishing	Scopus, EI-Compendex, and Inspec
Rufo A. Baro, Lourdes M. Padirayon. Melidiosa V. Pagudpud, Raymund E. Dilan	5.	Classification of Project Management Tool Reviews Using Machine Learning-Based Sentiment Analysis	Materials Science and Engineering	M. Andri Setiawan	December 2017	November 2018	Vol. 482	9	DOI:10.1088/1757-899X/482/1/012004	2019	IOP Publishing	Scopus, EI-Compendex, and Inspec
<b>OTHER REFEREED INTERNATIONAL/NATIONAL JOURNALS/PROCEEDINGS</b>												
Louie B. Villanueva	1.	Istorya ti Naggapuan: Textual Analyses of Ilokano Legends	International Journal of Advanced Research in Management and Social Sciences	Dr. Ouail El Imrani	June 2018	January 2019	Vol. 8, Issue 1	66-80	ISSN: 2278-6236	2019	Greenfield Advanced Research Publishing House	International Refereed Journal
Louie B. Villanueva	2.	Needs of the Thai Teachers in the English Language	International Journal of Advanced Research in Management and Social Sciences	Dr. Ouail El Imrani	June 2016	June 2017	Vol. 8, Issue 2	120-130	ISSN: 2278-6236	2019	Greenfield Advanced Research Publishing House	International Refereed Journal
	3.											



LOCAL JOURNALS/PROCEEDINGS												
		1.										
		2.										

#### D. Research Outputs Applied for Deposit/Registration

Table 11. List of Patents, Utility Models and Copy Rights Registration & Deposit/Application for 2019

Campus	Title Project/Study /Product Name	Author	Class	Date Started (Mo. & Year)	Date Completed (Mo. & Year)	Date Filed for Patenting	Application Number	Date Patented	Registration No.	Recommending Agency to IPO (DOST/DTI)
	1.									
	2.									
	3.									

### III. Research & Development Capability Building

Table 12. Trainings/Seminars-Workshops/ Fora/Conferences and Meetings Attended

Campus	Name of Participants	Title of Fora/Seminar/Conferences	Venue/Place	Duration/Date	Organizing Body	Type of Conference
<b>International</b>						
	Shirly O. Agcaoili	International Research Conference on Innovation, Technology, and Suitability	Malate, Manila, Philippines	January 24-25, 2019	International Conference on Innovation, Technology and Sustainability	International
	Shella B. Cacatian, Lyndon John V. Guittap, Jane Gladys A. Monje, Louie B. Villanueva	1 <sup>st</sup> International Research and Education Summit (IRES 2019)	Quezon City, Philippines	February 24-26, 2019	Global Researchers Association and Convergence for Excellence (GRACE) Inc.	International
	Allan O. De la Cruz, Jose Sherief O. Panelo	3 <sup>rd</sup> International Recoletos Research Congress	Cebu City, Philippines	March 4-6, 2019	University of San Jose-Recoletos	International
<b>National</b>						
	Melvin S. Atayan, Carlito R. Fagela, Jr., Jose Sherief O. Panelo	3 <sup>rd</sup> FACCI National Convention and Criminological Research	CSU-Andrews, Tuguegarao City	February 27-28, 2019	Federation of Authors in Criminology and Criminal Justice, In., (FACCI)	National
<b>Regional</b>						
<b>Local</b>						

Table 13. Trainings/Seminars/Workshops/Conferences/Fora and Meetings Conducted

Campus/Colleges	TITLE	VENUE/PLACE	DATE	Persons INVOLVED	No. of Participants
	1.				
	2.				

#### IV. R & D Partnership Developed/Established

##### A. Partnership / Linkages

Table 14. List of partnership/linkages, CY 2019

Campus/ Colleges	Name of Agency	Conduct of Research/Nature of Linkage	Name of Research Projects/Activity

Prepared by:

Noted:

**Sgd. SHELLA B. CACATIAN, Ph. D.**  
*Campus Coordinator for R&D*

**Sgd. NARCITAS B. OUANO, Ph. D.**  
*Campus Executive Officer*

