



# NEGROS ORIENTAL STATE UNIVERSITY

## SUSTAINABLE DEVELOPMENT GOALS **2024**

From Vision to Action:  
Achieving the SDGs Together





# Fostering Community Engagement through Public Events

*Negros Oriental State University (NORSU) continues to embody the principles of Sustainable Development Goal 4 (SDG 4), particularly through its commitment to offering inclusive, equitable, and quality education. One of the core indicators of SDG 4 is the university's ability to host events that engage the general public, providing opportunities for community educational growth. Through public lectures, community events, and competitions, NORSU actively contributes to fostering a culture of learning beyond its student body, impacting the local and broader community.*

NORSU's CTHM Days celebration is a perfect example of the university's commitment to public educational events. This annual event, organized by the College of Tourism and Hospitality Management, serves as a platform for students to showcase their skills in various hospitality and tourism disciplines. These competitions are open to the public, including industry professionals, alumni, and community members, thus bridging the gap between academia and the real world. Themes like "Harmony in Hospitality: Fostering Environmental Wellness, Elevating Experiences" highlight the university's focus on sustainability and quality education, aligning with SDG 4 by encouraging students to apply what they've learned in real-world settings .

## **KNOWLEDGE SHARING WITH LOCAL COMMUNITIES**

The "Lipayo sa Paglambo" extension project is another exemplary event hosted by NORSU, particularly through its College of Tourism and Hospitality Management (CTHM) and Hospitality Management Department. This initiative is aimed at empowering the Lipayo Farmers' Association by enhancing their agribusiness competencies and integrating sustainable tourism practices. NORSU's faculty, together with student volunteers, facilitated workshops on food processing, packaging, product marketing, and tourism integration, providing critical knowledge to local communities that will have lasting benefits. Such initiatives help empower local farmers, contributing to SDG 4 by promoting inclusive, quality education for all .



## **ENGAGING STUDENTS AND COMMUNITIES THROUGH COMPETITIONS**

In addition to these significant community-based events, NORSU also hosts public competitions that aim to foster both academic and industry skills. The “Chem Clash: Inter-School Chemistry Quiz Bowl”, for example, invites senior high school students across Negros Oriental to demonstrate their knowledge in chemistry. The quiz bowl is more than a competition—it is a platform for young minds to explore the vast opportunities in science and innovation, and to be inspired by the knowledge shared by experts. NORSU’s Department of Chemistry has successfully engaged multiple local schools, bringing together students, educators, and local communities to support educational excellence in the region.

## **NURTURING INDUSTRY-ACADEMIA SYNERGY**

Through these events, NORSU creates a meaningful connection between academia and industry. Local professionals in hospitality, tourism, and agriculture, among others, are invited to judge, mentor, and collaborate with students. These interactions provide students with industry insights and networking opportunities, ensuring that they are well-prepared for future employment. The CTHM Days celebration, for instance, directly involved industry partners such as hotel managers, chefs, and restaurateurs, who provided real-world feedback and mentorship, enhancing the educational experience of both students and community participants.

## **A RIPPLE EFFECT OF EMPOWERMENT**

The impacts of these public events extend far beyond the immediate participants. By engaging the general public—whether through competitions, community-based projects, or public lectures—NORSU ensures that education and knowledge are not confined to classrooms but are shared across society. The “Lipayo sa Paglambo” project, for example, did not just impact the farmers involved; it positively affected their families, the local economy, and ultimately, the broader community by encouraging sustainable agribusiness practices. The success of such events also influences future educational approaches, as they demonstrate how community engagement can drive both academic success and local development .



## **A COMMITMENT TO QUALITY EDUCATION FOR ALL**

NORSU's dedication to hosting events that are open to the public is a testament to its commitment to SDG 4. Whether through competitions that engage youth in STEM fields, community outreach that empowers local economies, or partnerships with industry professionals that enhance real-world learning, NORSU is building a stronger, more inclusive society. These events foster academic excellence, community growth, and professional readiness, ensuring that NORSU not only educates its students but also elevates the broader community, creating a lasting impact on both local and regional development.



**BEHIND  
THE  
WORDS:  
THE  
EVIDENCE**

# **Computer Literacy Constraints as Observed by the Appointive Barangay Officials**

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## **ABSTRACT**

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This study aimed to evaluate the computer literacy constraints as observed by the appointive officials academic in the municipality of Siaton. Negros oriental in 2023. Self Assessment Questionnaire was used to collect data, which was then analyzed using various statistical methods. The findings revealed that all areas in Needs Urgency Level has a weighted mean of 3.83, which means Urgent but not Important and all areas in Ability Level has a weighted mean of 1.14 with a verbal description of Fundamental Knowledge.

There are no significant difference existing between the appointive barangay officials in their observations in terms of Urgency Level and Ability Level based on the result of the computed  $X^2$ .

It is crucial to consider the limitations of this investigation, including the small sample size and lack of participant information. Future research should explore additional factors to further our understanding of achieving public service.

Keywords - Office Management (Word,Excel, Powerpoint), Web Development/Programming, Desktop Publishing, Introduction to Image Editing, Introduction to Video Editing, File Management (Organizing, storing, and controlling computer files), Basic Computer Troubleshooting

## **INTRODUCTION**

Barangay is a native Filipino word for a village or district which is the smallest administrative division in the Philippines. Governance at barangay level plays a crucial role in supporting the country's LGUs. This is related to the responsibility as a servant

within his society. Collectively, the barangays are national government collaborators to respond to development issues due to their strategic position at the grassroots level in providing effective and efficient service to the community (Ulanday,L. P. et.al.,2021)

Republic Act 7160 or the "Local Government Code" which provides that barangays, as the basic political unit, serve as the primary planning and implementing unit of government policies, plans, programs, projects and activities in the community.

The Barangay Chairperson, with the concurrence of the majority of the Sangguniang Barangay Members, has the power to appoint a Barangay Secretary and a Barangay Treasurer during his/her term.

The Barangay Secretary is in charge of keeping the barangay records, preparing necessary documents and agenda of the meetings, taking down the minutes of meetings, and other duties of similar nature and analogous to those already mentioned, the authors noted.

On the other hand, the Barangay Treasurer has the responsibility of collecting and issuing official receipts for taxes or payments accruing to the barangay treasury, disbursing of funds in accordance with the procedures prescribed by law, providing an inventory of all barangay assets under his/her custody and other duties as may be prescribed by law or ordinance (Republic of the Philippines, House of Representatives)

In order to effectively facilitate the responsibilities assigned to the barangay secretary and treasurer, they have to be computer literate. Computer literate is a term used to describe individuals who have the knowledge and skills to use a computer and other related technology. This term is usually used to describe the most basic knowledge and skills needed to operate software products such as an operating system, a software application, or an automated Web design tool (Techopedia).

What is computer literacy? Barbara Florini (1983) has something to say about computer literacy. "Computer literacy is variously defined. To some,it means learning to write programs, the sets of instructions computers follow while performing a task. To others, it merely means having a general awareness about some aspects of computers, such as a few of their uses. Still others see a definition of computer literacy falling somewhere between these two positions. Clearly, there is no consensus on the subject. Until one emerges,I believe people using the term are obliged to define it because the definition of computer literacy governs what they say on the subject.

The underlying premise, therefore, of what follows is that a computer literate person is one who at least:

- 1) Can identify the major components of a computer system and describe the function of each;

- 2) Is somewhat aware of what computers can do and of issues related to these capabilities;
- 3) Is able to use a computer to meet personal need

Anyone meeting these three criteria, at even some minimal level, will be able to make some informed decisions about computers and computer related matters”.

There are only few studies related to computer literacy in the barangay level. In the study of Salazar,T.B.(2022) reveals that majority of the respondents preferred training program on records management and office management but computer operation in varied software with ease may also be given emphasis.

Another study was conducted by Libo-on,J. T. et. al., (2021). The findings reveal that the respondents have exhibited limited knowledge in personal computer operations specifically in MS Excell, MS Powerpoint, and Internet and Email and advance level of MSWord.

A study was conducted by Medina, R.J.S. et.al.(2017). Through a self-assessment survey which was conducted among 127 barangay employees on their knowledge level of the various computer processes and usages. Results show that majority of the respondents have limited knowledge on the operating these three (3) programs which are usually used in office management. Thus, a computer training design must be proposed to address the specific areas in which respondents have a difficulty on using.

What actually is the impact of a training program related to computer use? In the study conducted by Gay,e.al.( 2023)The Microsoft training program had a positive impact on the respondents’ understanding of public service delivery and their proficiency in using Microsoft applications, contributing to better customer service and work performance. The findings suggest that such training programs can be effective in improving employee performance and have positive implications for their organization. It is recommended that public service providers prioritize improving the speed and efficiency of public services and offer training and development programs for employees to enhance their skills and knowledge.

This study sought to answer only 3 research problems:

1. To what extent are the constraints of computer literacy as observed by the appointive Barangay officials in terms of: Needs Urgency level
2. To what extent are the constraints of computer literacy as observed by the appointive Barangay officials in terms of :Ability Level
3. Is there a significant difference on the responses existing between appointed barangay officials in their observations in terms of: Needs Urgency Level
4. Is there a significant difference on the responses existing between appointed barangay officials in their observations in terms of: Ability Level?

By comprehensively analysing the areas of computer literacy, this research aims to provide deeper understanding of the constraints so that effective delivery of services would be attained by the appointive barangay officials. The findings of this study will offer valuable insights to DILG, allowing for evidence-based interventions and strategies to enhance public service. Ultimately, the goal is to foster an inclusive, supportive, and effective service oriented environment that maximizes appointive barangay officials potential to become competent and ethically responsive.

## **RESEARCH METHODOLOGY**

### **Population:**

Population of study consisted of appointive barangay officials in 2023 in the Municipality of Siaton. Out of 26 barangays, only 14 barangays participated in the study. Size of the population in this study is 26

### **Research Instrument**

A Self – Assessment Questionnaire is used for data collection. Extension Office provides the questionnaire

### **Research Instrument:**

A Self Assessment Questionnaire is used for data collection. The first part of the assessment is designed to obtain information on the sex,age,education,marital status,monthly income, and employment status. The next part is the training/seminars attended, and the last part is the information and communication technology literacy. In every area, there are two major columns . The first major column is assigned with Needs Urgency Level with five sub columns with 5 level. The second major column is assigned with Ability Level with five sub columns with 5 level. Below is the descriptive level:

<b>Needs Urgency Level (Skill level)</b>	<b>Ability Level (Proficiency Level)</b>
1-Neither important nor urgent (Hindi mahalaga)	Fundamental Knowledge (Pangunahing Kaalaman)
2-Important but not urgent (Mahalaga ngunit hindi kagyat)	Novice (Baguhan)
3-Important when needed (Mahalaga kung kinakailangan)	Intermediate (Nasa Pagitan)
4-Urgent but not important (Kagyat ngunit hindi mahalaga)	Advanced (Pinataas)
5-Urgent and important (Kagyat at mahalaga)	Expert (Dalubhasa)

## **Description of the Statistical Tools Used**

The following statistical tools were used to analyze and interpret the data.

Frequency (f) in this study refers to the total number of tallies on each class interval. The sum of frequency is the number of cases or N. The responses of respondents on each item in the questionnaire were tallied.

Weighted Mean in this study refers to the sum of the separate scores or measures divided by their number. Likert Scale was used to determine the effect of the determinants of academic performance.

Formula:

$$W\bar{x} = \frac{\sum fw}{N}$$

Where:  $\bar{x}$  - Mean  
f - frequency of scores  
W – weight of each category of responses  
N - number of cases

Chi-square ( $X^2$ ) is a very general test that can be used whenever the researcher wishes to evaluate whether or not frequencies that have been empirically obtained differ significantly from those which would be expected under a certain set of theoretical assumptions. The chi-square was used in this study to test the significant difference in observation of the four groups of respondents as to the effects of the determinants of academic performance and the moderating variables.

The Chi-square (X) formula is as follows:

$$X = \frac{(O-E)^2}{E}$$

Where: X - Chi-square  
O - observed frequency  
E - expected frequency

## RESULTS AND DISCUSSIONS

Descriptive statistics are used to describe the basic features of the data in a study. They provide simple summary statistics about different areas.

Problem 1: TABLE 1: Extent of the constraints of computer literacy as observed by the appointive Barangay officials in terms of: Needs Urgency level

AREAS	Needs Urgency level (Where 1 is the lowest and 5 is the highest)							Ability Level (Where 1 is the lowest and 5 is the highest)						
	1 (NINU )	2 (INU )	3 (IN )	4 (UNI )	5 (UI )	WX	VD	1 (FK)	2 (N)	3 (I)	4 (A)	5 (E)	WX	VD
1.Office Management (Word,Excel, Powerpoint)	1(1)	0(0)	2(6)	0(0)	24 (120)	4.7	Urgent and Important	18(18)	3(6)	5(15 )	1(4)	0 (0)	1.5 9	Fundamental Knowledge
2. Web Development	2(2)	6(12 )	14(42 )	0(0)	5(25)	3	Important when Needed	10(10)	16(32)	0(0)	1(4)	0(0)	1.7	Fundamental Knowledge
3. Desktop Publishing	1(1)	3 (6)	11(33 )	1(4)	11 (55)	3.66	Urgent but not Important	13(13)	11(22)	2(6)	1(4)	0(0)	1.6	Fundamental Knowledge
4.Introduction to Image Editing	1(1)	6(12 )	16(48 )	0(0)	4(20)	3	Important when Needed	11(11)	11(22)	3(9)	2(8)	0(0)	1.8 5	Novice
5.Introduction to Video Editing	1(1)	6(12 )	18(54 )	1(4)	1(5)	2.8	Important when Needed	12(12)	10(20)	4(12 )	1(4)	0(0)	1.7	Fundamental Knowledge
6.File Management	1(1)	0(0)	0(0)	0(0)	26(130 )	4.85	Urgent and	22(22)	3(6)	1(3)	1(4)	0(0)	1.2 9	Fundamental Knowledge

(Organizing, Storing, and Controlling Computer Files)							Important							
7. Basic Computer Troubleshooting	1(1)	0(0)	0(0)	0(0)	26(130)	4.85	Urgent and Important	13(13)	13(26)	0(0)	1(4)	0(0)	1.59	Fundamental Knowledge
Average Weighted Mean						3.83	Urgent but not Important						1.14	Fundamental Knowledge

As seen in Table 1, there are three areas that registered Urgent and Important ,Areas 1, 6, and 7. The first is Area 1 which is Office Management (Word,Excel, Powerpoint). Area 1 shows that the respondents registered 4.7 which implies that the appointed barangay officials find it urgent and important in delivering basic services.

The second is Area 6 which is File Management (Organizing, Storing, and Controlling Computer Files). It can be seen in the table that it has a weighted mean of 4.85, with a verbal description of Urgent and Important; and

The third is Area 7, Basic Computer Troubleshooting. As gleaned, it has a weighted mean of 4.85 with a verbal description of Urgent and Important.

Areas 2,4, and 5 has a verbal description of Important when Needed. Area 2,Web Development has a weighted mean of 3. Area 4 ,Introduction to Image Editing which registers a weighted mean of 3 with a verbal description of Important when Needed. Area 5, Introduction to Video Editing which registers a weighted mean of 2.8 with a verbal description of Important when needed. In the realm of Information and Communication Technology (ICT) literacy, the concept of being "important when needed" emphasizes the practical application of skills and knowledge.

With regard to Area 3,Desktop Publishing, it is rated 3.66 with a verbal description of urgent but not important. In the context of information and communication technology (ICT) literacy skill level could include activities that require immediate attention but don't significantly contribute to enhancing one's proficiency or understanding of ICT concepts.

These tasks may be necessary to address in the short term, but they don't necessarily align with long-term skill development or goals in ICT literacy.

Problem 2: TABLE 2: Extent of the constraints of computer literacy as observed by the appointive Barangay officials in terms of: Ability level

AREAS	Needs Urgency level (Where 1 is the lowest and 5 is the highest)							Ability Level (Where 1 is the lowest and 5 is the highest)						
	1 (NI NU)	2 (IN U)	3 (IN)	4 (UN I)	5 (UI)	W X	VD	1 (FK )	2 (N)	3 (I)	4 (A )	5 (E )	W X	VD
1. Office Management (Word, Excel, Powerpoint)	1(1)	0(0)	2(6)	0(0)	24 (120)	4. 7	Urgent and Important	18(18)	3(6)	5(15)	1(4)	0(0)	1. 59	Fundamental Knowledge
2. Web Development	2(2)	6(12)	14(42)	0(0)	5(25)	3	Important when Needed	10(10)	16(32)	0(0)	1(4)	0(0)	1. 7	Fundamental Knowledge
3. Desktop Publishing	1(1)	3(6)	11(33)	1(4)	11(55)	3. 66	Urgent but not Important	13(13)	11(22)	2(6)	1(4)	0(0)	1. 6	Fundamental Knowledge
4. Introduction to	1(1)	6(12)	16(48)	0(0)	4(20)	3	Important when	11(11)	11(22)	3(9)	2(8)	0(0)	1. 85	Novice

Image Editing							Need ed							
5.Introducti on to Video Editing	1(1)	6(12)	18(54)	1(4)	1(5)	2.8	Impor tant when Need ed	12(12)	10(20)	4(12)	1(4)	0(0)	1.7	Fundame ntal Knowledg e
6.File Managem ent (Organizin g, Storing, and Controlling Computer Files)	1(1)	0(0)	0(0)	0(0)	26(130)	4.85	Urgen t and Impor tant	22(22)	3(6)	1(3)	1(4)	0(0)	1.29	Fundame ntal Knowledg e
7. Basic Computer Trouble shooting	1(1)	0(0)	0(0)	0(0)	26(130)	4.85	Urgen t and Impor tant	13(13)	13(26)	0(0)	1(4)	0(0)	1.59	Fundame ntal Knowledg e
Average Weighted Mean						3.83	Urgen t but not Impor tant						1.14	Fundame ntal Knowledg e



As seen in Table 2. Area 1, Office Management (Word, Excel, Powerpoint) with a weighted mean of 1.59, Area 2, Web Development with a weighted mean of 1.7. Area 3, Desktop Publishing with a weighted mean of 1.6, Area 5, Introduction to Video Editing, 1.85, Area 6, File Management (Organizing, Storing, and Controlling Computer Files, 1.29, and Area 7, Basic Computer Trouble shooting, 1.59 share a verbal description of Fundamental knowledge. This indicates that the respondents have only learned the basic understanding and skills necessary to navigate and utilize technology effectively.

Only Area 4, Introduction to Image editing with a weighted mean of 1.85 is Novice. This reveals that in the context of Information and Communication Technology (ICT) literacy, a novice typically refers to someone who possesses a basic level of proficiency in using technology but lacks deep understanding or experience in more advanced or specialized areas. Novices in ICT literacy may have fundamental knowledge of using common software applications, navigating the internet, and performing basic tasks on computers or mobile devices.

**Problem 3:**

**Table 3: Significant difference on the responses existing among appointive barangay officials in their observations in terms of: Needs Urgency Level**

Appointive Brgy. Officials	1	2	3	4	5	TOTAL	X <sup>2</sup>	Decision	Remarks
Secretary	7	6	33	15	50	111	302.8	Reject H <sub>0</sub>	Significantly Moderated
Treasurer	1	15	26	0	42	84			
TOTAL	8	21	59	15	92	195			

Table 3 shows that there is a significant difference existing between appointive barangay officials in their observations in terms of Urgency Needs based on the result of the computed X<sup>2</sup> value which is 302.8 which is greater than the table value, 9.488 at 0.05 level of significance with 4 degrees of freedom. Therefore, the null hypothesis that there is no significant difference existing between appointed barangay officials in their observations in terms of Urgency Needs is rejected.

**Problem 4:**

**Table 4: Significant difference on the responses existing among appointive barangay officials in their observations in terms of: Ability Level**

Appointive Brgy. Officials	1	2	3	4	5	TOTAL	X <sup>2</sup>	Decision	Remarks
Secretary	39	40	10	8	0	97	175.44	Reject H <sub>o</sub>	Significantly Moderated
Treasurer	52	27	5	0	0	84			
TOTAL	91	67	15	8	0	181			

The data in Table 4 reveals that there is a significant difference existing between appointive barangay officials in their observations in terms of Ability Level based on the result of the computed X<sup>2</sup> value which is 175.44 which is greater than the table value, 9.488 at 0.05 level of significance with 4 degrees of freedom. Therefore, the null hypothesis that there is no significant difference existing between appointive barangay officials in their observations in terms of Ability Level is rejected.

### CONCLUSION

The study shows that in Needs Urgency level, Areas 1, 3, 6, and 7 have a verbal description of Urgent and Important: Office Management (Word, Excel, Powerpoint), Desktop Publishing, File Management (Organizing, Storing, and Controlling Computer Files), Basic Computer Trouble shooting.

Areas 2, 4, and 6 have a verbal description of Important when Needed: Web Development, Introduction to Image Editing, and File Management (Organizing, Storing, and Controlling Computer Files).

As a whole, all areas in Needs Urgency Level has a weighted mean of 3.83, which is Urgent but not Important.

In terms of Ability Level, Areas 1, 2, 3, 5, 6, and 7 have all registered Fundamental Knowledge: Office Management (Word, Excel, Powerpoint), Web Development, Desktop Publishing and Web Development, Introduction to Video Editing Introduction to Image Editing, File Management (Organizing, Storing, and Controlling Computer Files), and Basic Computer Trouble Shooting.

Only Area 4, Introduction to Image Editing has a verbal description of Novice. As a whole, All areas in Ability Level has a weighted mean of 1.14 with a verbal description of Fundamental Knowledge.

There are no significant difference existing between the appointive barangay officials in their observations in terms of Urgency Level and Ability Level based on the result of the computed X<sup>2</sup>.

## RECOMMENDATIONS:

The present investigation can be seen as an initial endeavor to explore computer literacy constraints in colleges and universities that have extension campuses. Nevertheless, it is important to exercise caution when interpreting the findings, as the study's sample size is small and there is a lack of information concerning the characteristics of the participants.

Subsequent research and extension endeavors could delve into additional factors influencing computer literacy constraints among appointed barangay officials, thereby enhancing our comprehension of public service.

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# Impact assessment of extension program as Observed by the Department of Social Welfare and Development (DSWD)

## Introduction

The integration of Information and Communication Technology (ICT) in government operations is an essential driver of modern governance, reshaping how public services are managed and delivered (Heeks, 2001). In the Philippines, this digital shift is particularly significant at the barangay level, where treasurers and secretaries play crucial roles in managing local budgets, maintaining records, and ensuring compliance with government protocols. The Department of Information and Communications Technology (DICT) has highlighted the importance of ICT adoption at this level as a pathway to building a responsive, accountable, and effective government structure (DICT, 2022).

ICT adoption has been widely recognized as a tool to improve the accuracy, efficiency, and accessibility of public records and financial data. Manual processes can be time-consuming and error-prone, often resulting in lost data or incomplete records that hinder government transparency and efficiency (Alampay, 2003). The shift to digital record-keeping and automated financial reporting addresses these challenges by allowing barangay officials to store, retrieve, and update records more efficiently. For instance, digital platforms enable real-time data entry and instant access to financial information, reducing the administrative burden and increasing data reliability (Bertot, Jaeger, & Grimes, 2010). For treasurers and secretaries, the benefits of digitization are clear: they can focus less on time-intensive manual tasks and more on community-focused activities, which ultimately supports better governance.

The role of ICT in promoting transparency and accountability is equally significant. Digital tools create clearer, more accessible records of transactions, enhancing the transparency of barangay financial operations and allowing citizens to monitor public spending. Transparency is critical in barangay governance, where trust is often built on the visible, accountable management of community resources (World Bank, 2016). By facilitating public access to information, ICT reduces the likelihood of corruption and encourages a culture of openness and responsibility. Studies have shown that ICT-enabled transparency mechanisms help build trust between government officials and citizens by allowing for greater scrutiny of financial practices and public transactions (Cordella & Tempini, 2015).

Moreover, ICT adoption aligns with broader national initiatives aimed at supporting local governance structures. The Philippines' National ICT Ecosystem Framework (NICTEF) underscores the goal of empowering local government units to leverage digital technologies in service delivery and operations (DICT, 2019). This framework promotes the development of ICT infrastructure and offers training programs designed to increase digital literacy among local officials. However, resource constraints and limited technical skills among barangay officials

often create barriers to successful ICT implementation. The lack of adequate funding for technology infrastructure, training, and ongoing technical support are persistent issues, highlighting the need for government investment in both digital tools and capacity-building efforts at the barangay level (Alampay, 2003).

Despite these challenges, the adoption of ICT in barangay offices has demonstrated positive impacts on service delivery quality, efficiency, and accountability. Treasurers and secretaries using ICT report improved capabilities in data management and communication with stakeholders, which enhances their responsiveness to community needs (Ramli, Karim, & Said, 2014). Additionally, ICT solutions streamline the reporting process, enabling more timely and accurate submission of reports to higher government authorities. This study, therefore, seeks to evaluate the specific impact of ICT on barangay treasurers and secretaries, examining how technology adoption influences their efficiency, accountability, and public service quality. By understanding these impacts, the study aims to provide insights into the benefits and obstacles of ICT in local governance and offer recommendations for more effective ICT integration at the barangay level.

### **Objectives of the Study**

The primary focus of this paper is to evaluate the impact of the Community Extension Program associated with the Bachelor of Science in Information Technology program at the College of Arts and Sciences, Negros Oriental State University, Siaton Campus.

Specifically, it aims :

1. to know the level of program impact of the extension program in terms of:
  - a. Economic
  - b. Social
  - c. Environmental
  - d. Knowledge
2. to suggest recommendations for improving the implementation of the College's community extension program.

### **METHODOLOGY**

The study employed the **descriptive survey method** to examine and assess the current status of the College's extension programs. To gather relevant data, the researcher used both a **questionnaire** and **documentary analysis**. A total of **27 respondents** participated in the study, selected based on their involvement as beneficiaries of the college's extension services. Additionally, **interviews** were conducted to clarify and validate certain data. The primary statistical tool used for data analysis was the **weighted mean**. A **5-point Likert scale** was applied for evaluation, with the following scale: **5 – Strongly Agree (Uyon Kaayo); 4 – Agree (Uyon); 3 – Undecided (Walay Siguro); 2 – Disagree (Dili Uyon); 1 – Strongly Disagree (Dili Gayod Uyon)**

## RESULTS AND DISCUSSION

Table 1 to 4 revealed the level of program impact of the extension program in terms of: Economic Effect; Social Effect ; Environmental Effect ; and Knowledge Effect. Table 5 revealed the summary of the effects.

**Table 1: Economic Effect of the Extension Program ( Epekto sa Ekonomiya)**

	<b>PAMAHAYAG</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b><math>\bar{x}</math></b>	<b>VD</b>
1.	Mas kumpiyansa ko nga mangita og trabaho pagkahuman sa programa.			3	12	85	4.76	Uyon Kaayo (Strongly Agree)
2.	Mas kumpiyansa ko nga mangita og trabaho pagkahuman sa programa.			3	12	85	4.76	Uyon Kaayo (Strongly Agree)
3.	Nakahat-on ko og praktikal nga mga kahanas nga makapadugang sa akong kita.			3	8	90	4.80	Uyon Kaayo (Strongly Agree)
4.	Mas nasabtan nako karon ang pagdumala sa kwarta ug teknolohiya sa personal o pamilya.			3	4	95	4.85	Uyon Kaayo (Strongly Agree)
5.	Nasabtan nako kung unsa ang mga gikinahanglan sa pagpangaply og trabaho.			3	4	95	4.85	Uyon Kaayo (Strongly Agree)
6.	Nakahuna-huna ko og mga paagi sa pagpanarbaho o pagpanginabuhi gamit and teknolohiya sama sa computer.			3	4	95	4.85	Uyon Kaayo (Strongly Agree)
	<b>TOTAL</b>						<b>4.81</b>	<b>Uyon Kaayo (Strongly Agree)</b>

As reflected in Table 1, all statements registered “Uyon Kaayo”.Likewise, the total weighted mean, 4.81. It may imply: The “Strongly Agree” rating indicates a high level of recognition by barangay treasurers and secretaries of the economic benefits derived from their participation in the computer literacy extension program. This may indicate that:

1.The Barangay treasurers and secretaries now accomplish tasks such as financial reporting, documentation, encoding, and email correspondence more quickly and accurately. This efficiency saves time, which can be redirected to income-generating activities or side jobs;

2.The program has boosted their confidence and qualifications, making them more competitive for higher-level LGU positions or contractual jobs with government agencies that require digital literacy;

3. Computer skills help them use spreadsheet tools (like Excel), access online reporting portals (e.g., DILG or COA systems), and reduce dependence on manual or paper-based accounting. This increases accountability and allows them to manage barangay funds more effectively;
4. The national government is promoting digital governance (e-Governance). With improved digital skills, barangay officials are better prepared to adapt to these changes, reducing their risk of being left behind or replaced by more tech-savvy personnel; and
5. Some barangay officials have begun innovative practices such as maintaining digital archives, creating digital databases of constituents, or using online platforms for community communication—skills which are transferable to private or entrepreneurial ventures.

**Table 2: Social Effect (Epekto sa Sosyal)**

	<b>PAMAHAYAG</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	$\bar{x}$	<b>VD</b>
1.	Mas nakabati ko og koneksyon sa akong komunidad pagkahuman sa programa.				20	80	4.76	Uyon Kaayo (Strongly Agree)
2.	Nakahimo ko og bag-ong relasyon o panaghigalaay.				20	80	4.76	Uyon Kaayo (Strongly Agree)
3.	Mas kumpiyansa ko karon sa pagpakita sa akong hunahuna ug pagbati.				20	80	4.76	Uyon Kaayo (Strongly Agree)
4	Nasabtan nako ang kahinungdanon sa pag-apil sa kalihokan sa komunidad.				20	80	4.76	Uyon Kaayo (Strongly Agree)
5.	Ang programa nagtudlo og respeto ug inclusivity sa mga partisipante.				20	80	4.76	Uyon Kaayo (Strongly Agree)
6.	Mas nakabati ko og koneksyon sa akong komunidad pagkahuman sa programa.				20	80	4.76	Uyon Kaayo (Strongly Agree)
	<b>TOTAL</b>						4.76	Uyon Kaayo (Strongly Agree)

Table 2 reflects the social effect of the training. As revealed all registered “Uyon Kaayo” (Strongly Agree). This indicates that:

1. Barangay officials who previously felt left out due to a lack of digital skills now feel included and empowered to participate in activities that require the use of computers or digital

platforms. This inclusion builds social equity and allows them to interact confidently with colleagues and agencies;

2. The ability to create announcements, reports, and presentations using digital tools improves their credibility and professionalism. They can now easily relay important community information via Facebook pages, group chats, and digital bulletins—strengthening their connection with constituents;

3. Some participants become informal mentors to other staff or community members, teaching basic computer skills. This elevates their social standing and increases their influence within their local offices;

4. Shared training experiences foster a sense of teamwork and unity among barangay officials. Many develop lasting relationships through peer learning and group projects, reinforcing a collaborative culture;

5. The training allows older officials to better relate with younger, more tech-savvy individuals. This bridges generational divides and promotes more harmonious working relationships; and

6. Improved performance leads to greater appreciation from the barangay captain, residents, and partner agencies. This often translates into social recognition, awards, or new responsibilities that boost their social identity.

**Table 3: Epekto sa Kalikupan (Environmental Effect)**

	<b>PAMAHAYAG</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b><math>\bar{x}</math></b>	<b>VD</b>
1.	Mas ginasi-guro nako karon ang husto nga personal hygiene ug sanitasyon sa pagamit ug mga teknolohiya sama sa computer .			3	8	90	4.80	Uyon Kaayo (Strongly Agree)
2.	Ginaatiman nako karon ang kalimpyo sa akong palibot ug gamit sa computer.			3	8	90	4.80	Uyon Kaayo (Strongly Agree)
3.	Mas alerto ko karon sa mga risgo sa paggamit sa teknolohiya ug unsay angay buhaton.			3	8	90	4.80	Uyon Kaayo (Strongly Agree)

4	Nasabtan nako ang paagi sa pagpanalipod sa akong kaugalingon sa online nga kalibutan.			3	8	90	4.80	Uyon Kaayo (Strongly Agree)
5.	Mas matinud-anon ko sa paggamit sa teknolohiya nga walay basura o kadaot sa palibot.			3	8	90	4.80	Uyon Kaayo (Strongly Agree)
6.	Mas ginasiyuro nako karon ang husto nga personal hygiene ug sanitasyon sa paggamit ug mga teknolohiya sama sa computer .			3	8	90	4.80	Uyon Kaayo (Strongly Agree)
	TOTAL						4.80	Uyon Kaayo (Strongly Agree)

Table 3 shows the Environmental Effect of the extension program. It can be seen that it registers “Uyon Kaayo” (Strongly Agree) in all statements including the total weighted mean,4.80.

The interpretation of “Strongly Agree” regarding the environmental effects of the computer literacy extension program signifies that barangay treasurers and secretaries highly recognize the program’s contribution to environmental awareness, sustainable practices, and eco-friendly governance. Although the program primarily aims to develop digital skills, it has also indirectly influenced the participants’ environmental perspectives and behavior.

The training equipped participants with the skills to perform tasks digitally—such as creating financial reports, writing letters, and submitting documents online. This reduces their reliance on paper-based documentation, which contributes to less paper waste and printing materials in barangay operations.

During the training, participants may have learned about responsible computer use—such as energy-saving techniques, minimizing e-waste, and extending the life of digital equipment. These practices promote environmentally conscious behavior within local offices.

Instead of maintaining bulky physical records, barangay officials can now store and retrieve data electronically. This promotes space-saving, less cluttered environments, and reduces the need for physical filing cabinets and storage boxes—helping maintain cleaner and more organized office environments.

Computer literacy enables barangay officials to prepare environmental project proposals, documentation for waste management programs, and online awareness campaigns (e.g., on climate change or proper segregation). This allows them to engage more actively in environmental protection initiatives.

The ability to use computers and the internet empowers barangay officials to coordinate virtually with LGUs, NGOs, and government agencies—minimizing the need for in-person meetings, printed forms, and travel-related carbon footprints.

**Table 4 . Epekto sa Kahibalo (Effect of Knowledge)**

Gitan-aw niini kung unsay imong nakat-unan gikan sa programa.

	PAMAHAYAG	1	2	3	4	5	$\bar{x}$	VD
1	Mas kamao ko karon mo-research ug mo-evaluate og impormasyon online.			6	16	75	4.61	Uyon Kaayo (Strongly Agree)
2	Nakahat-on ko sa paggamit sa mga application software ug file management.			6	20	70	4.57	Uyon Kaayo (Strongly Agree)
3	Kabalo na ko mag-install ug mag-ayo og software o hardware sa computer.			9	16	70	4.52	Uyon Kaayo (Strongly Agree)
4	Kumpiyansa ko nga maka-troubleshoot og simple nga problema sa computer.			12	16	65	4.42	Uyon Kaayo (Strongly Agree)
5	Mas kamao ko karon mo-gamit og teknolohiya sa akong pag-eskwela o trabaho.			6	12	80	4.6	Uyon Kaayo (Strongly Agree)
6	Mas kamao ko karon mo-research ug mo-evaluate og impormasyon online.			6	12	80	4.6	Uyon Kaayo (Strongly Agree)
	TOTAL						4.53	Uyon Kaayo (Strongly Agree)

It can be seen that all statements have a Verbal Description of “Uyon Kaayo” Strongly Agree also the total Weighted Mean. The “Strongly Agree” response from barangay treasurers and secretaries indicates a strong and positive perception that the computer literacy extension program significantly enhanced their knowledge. This suggests that the program has not only transferred new information but also transformed the way they understand, approach, and perform their roles in the barangay in many ways.

Participants gained competence in using office applications such as: Microsoft Word – for official letters, resolutions, and memoranda; Microsoft Excel – for budgeting, financial reports, and honorarium monitoring; and PowerPoint – for preparing reports and presentations during barangay assemblies. This knowledge makes their work more professional, systematic, and efficient, moving away from handwritten or typewritten reports.

They learned also the importance of digital storage systems, using USB drives, folders, and cloud storage. This improves: data security; ease of retrieval; accuracy in documentation; and transparency in barangay transactions.

It reflects a shift from traditional paper-based systems to a more modern, organized approach in local governance: use email for formal correspondence with the DILG, LGU, or

CHED; communicate via online platforms like Zoom or Google Meet; and use messaging tools (e.g., Facebook Messenger, Viber) for faster barangay coordination. This allows them to communicate in real-time, both internally and externally.

Moreover, they apply knowledge Integration into Work Processes. Participants applied their new knowledge in: Monitoring barangay funds and expenses; Preparing payroll and vouchers; and Compiling barangay accomplishments and reports. This demonstrates practical integration, not just passive knowledge.

“Strongly Agree” also reflects a shift in mindset—barangay officials now recognize the need for continuous learning, especially as government systems become more digitized. This promotes self-directed knowledge-seeking behavior, such as enrolling in online trainings or requesting follow-up workshops.

**Table 5: Summary of Effects**

	<b>Effects</b>	$\bar{x}$	<b>VD</b>
1	Epekto sa Ekonomiya (Economic Effect)	4.81	Uyon Kaayo (Strongly Agree)
2	Epekto sa Sosyal (Social Effect)	4.76	Uyon Kaayo (Strongly Agree)
3.	Epekto sa Kalikupan ( Environmental Effect)	4.80	Uyon Kaayo (Strongly Agree)
4	Epekto sa Kahibalo ( Effect of Knowledge)	4.53	Uyon Kaayo (Strongly Agree)
	OVER ALL TOTAL	4.72	Uyon Kaayo (Strongly Agree)

Table 5 indicates the summary of the effects of the extension program for barangay secretaries and treasurers. This further shows that:

1. Economic Effect – 4.81 (Uyon Kaayo)

Barangay treasurers and secretaries strongly agree that the program has provided significant economic benefits. With improved computer skills, they are now able to work more efficiently, reduce errors, and perform financial tasks faster, which enhances productivity. This may also open up other income-generating opportunities, such as handling digital tasks for others or qualifying for higher positions;

2. Social Effect – 4.76 (Uyon Kaayo)

The respondents acknowledge the strong social impact of the program. Computer literacy has improved their communication skills, enabled greater community involvement, and boosted their confidence and recognition as capable leaders and administrators in the barangay;

3. Environmental Effect – 4.80 (Uyon Kaayo)

They strongly agree that the program has contributed to environmentally responsible practices. Through digital skills, they have reduced paper usage, promoted cleaner and more organized office environments, and engaged in more eco-friendly documentation and reporting systems; and

#### 4. Effect of Knowledge – 4.53 (Uyon Kaayo)

Although this dimension has the lowest mean among the four, it still falls under the “Strongly Agree” category. This indicates that the program has significantly enhanced their knowledge, particularly in digital tools, office applications, and computer-based communication. This foundational knowledge contributes to greater efficiency and independence in their day-to-day tasks.

For the overall interpretation, the overall weighted mean of 4.72 with a verbal description of “Uyon Kaayo” (Strongly Agree) confirms that the computer literacy extension program has made a strong, positive impact on barangay treasurers and secretaries. It enhanced not only their economic productivity but also their social engagement, environmental consciousness, and digital knowledge. This high level of satisfaction supports the continued implementation and expansion of the program for other barangay officials and sectors.

### **CONCLUSION**

Based on the results, it is evident that the computer literacy extension program has made a highly positive impact on barangay treasurers and secretaries. With an overall weighted mean of 4.72, interpreted as "Uyon Kaayo" (Strongly Agree), the respondents strongly affirm the program's effectiveness across four key areas: economic improvement, social empowerment, environmental awareness, and knowledge enhancement.

The findings suggest that the program has not only improved their efficiency and confidence in using digital tools but has also strengthened their capacity to serve their communities more effectively. This level of satisfaction indicates that the computer literacy program is a relevant, timely, and transformative initiative that contributes significantly to local governance and personal development. Thus, it is recommended that similar programs be sustained, expanded, and institutionalized to reach more barangay functionaries and grassroots leaders.

### **RECOMMENDATIONS**

The study proposed that given the result of assessment, the following are recommended:

1. Sustain and Institutionalize the Program

Given the overwhelmingly positive feedback, the computer literacy extension program should be integrated into the regular capacity-building plans for barangay officials. This ensures continuous access to digital skills training for current and future barangay personnel;

2. Expand Training Coverage to Other Barangay Officials and Sectors

Extend the program to include barangay kagawads, SK officials, and barangay health and tanod personnel, to build a digitally empowered and efficient barangay workforce;

3. Provide Refresher and Advanced Training Modules

To build on their existing skills, offer refresher courses and advanced training modules (e.g., Google Workspace, e-governance systems, data privacy, digital documentation, and online reporting tools) to deepen their knowledge and adaptability;

4. Strengthen Monitoring and Evaluation Mechanisms

Implement tools to regularly track progress, gather feedback, and measure outcomes, so that future iterations of the program are more responsive to the specific needs and challenges of barangay officials;

5. Integrate Environmental Awareness in Digital Practices

Since environmental impact was rated highly, the program can incorporate green ICT practices such as paperless documentation, energy-efficient computer use, and e-waste management as part of its learning outcomes;

6. Establish a Peer Mentoring or “Train-the-Trainers” System

Identify participants who have excelled in the training and empower them to become peer mentors or local trainers for their fellow barangay workers, promoting sustainability and community ownership of the program;

7. Seek Stronger Partnerships with LGUs, DICT, and NGOs

Collaborate with local government units, the Department of Information and Communications Technology (DICT), and development organizations to ensure technical support, equipment provision, and wider program reach; and

8. Allocate Budget for ICT Infrastructure in Barangays

Advocate for barangay-level funding or support from higher LGUs for the purchase of computers, printers, stable internet, and other digital tools to support the practical application of learned skills.

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## COLLEGE OF TOURISM AND HOSPITALITY MANAGEMENT

### CTHM and NOHRRRA Launch Strategic Extension Program Advancing SDGs in Hospitality Workforce Development

The College of Tourism and Hospitality Management (CTHM) at Negros Oriental State University (NORSU) has formally launched the NORSU-NOHRRRA Extension Project under the theme “Competency & Skills Enhancement Training for Food & Beverage Employees of Negros Oriental,” held at the ST AVR, NORSU Main Campus. This initiative directly supports the university’s commitment to the UN Sustainable Development Goals, particularly SDG 4 (Quality Education) and SDG 8 (Decent Work and Economic Growth).

The inaugural session was attended by key institutional leaders including Dr. Johann Heinrich Malongo (RDE Office), CTHM Dean Dr. Tulip F. Lopez, Assistant Dean Dr. Pirl Enquilino, Extension Coordinator Prof. Millard Vaughn Tubog, CTHM faculty and staff, select student volunteers, and representatives from NOHRRRA-member establishments such as Sans Rival, Tinto, Flying Fish, Gong Cha, Panda, Yumcha, Plaza Maria Luisa, Royal Suites Inn, Check Inn Pension, PVL Suites, Wuthering Heights, Bethel Guest House, and Southview Hotel.

This research-driven program, spearheaded by Prof. Leroz Rizada, is designed to build industry-relevant competencies among frontline hospitality workers, enhancing service quality, food safety awareness, and customer engagement. It also provides experiential learning opportunities for students, bridging academic instruction with real-world application which is an essential component of inclusive and equitable quality education. This academe-industry linkage fosters mutual capacity-building, knowledge transfer, and sustainable workforce

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#### MISSION STATEMENT

*Negros Oriental State University delivers global excellence through advanced instruction, impactful research, and modern infrastructure shaping effective leaders to serve the Philippine society and the world.*

#### QUALITY POLICY

*Negros Oriental State University commits to delivering quality instruction, research, extension and production. We ensure compliance with all statutory and regulatory requirements and continuously work to improve our management system to meet our quality objectives.*



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Dr. Tulip F. Lopez, Dean of the College of Tourism and Hospitality Management (CTHM), delivered an inspiring welcome address that set the tone for the event, emphasizing the transformative role of hospitality education in advancing workforce competencies and aligning institutional efforts with the Sustainable Development Goals (SDGs).

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Prof. Leroy Rizada, Project Leader, presented the rationale and objectives of the training initiative, underscoring its strategic intent to elevate service competencies among food and beverage personnel, foster industry-academe synergy, and contribute to the region’s alignment with Sustainable Development Goals (SDGs), particularly in promoting inclusive education and decent work.





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### MEMORANDUM OF AGREEMENT

THIS MEMORANDUM OF AGREEMENT (MOA) is entered into by and between:

**NEGROS ORIENTAL HOTEL, RESORT & RESTAURANT ASSOCIATION (NOHRRRA)**, a duly registered non-stock, non-profit organization of the hospitality and tourism industry in the province of Negros Oriental, represented by its President, **ROYANI S. DY**, of legal age, Filipino, married and with office address at Cambagroy, Dumaguete City, Negros Oriental; herein referred as "NOHRRRA."

-AND-

**NEGROS ORIENTAL STATE UNIVERSITY (NORSU)**, created under the Republic Act 9299 on June 25, 2004, whose principal office address at Kagawasan Avenue, Capitol Area, Daro, Dumaguete City, represented by its President **JOEL P. LIMSON, Ph.D.**, hereinafter referred to as "NORSU".

### WHEREAS,

NOHRRRA has initiated a skills development and training program on the basic and essential services such as Soft Skills Training, Table Setting, Table Skirting and Flower Arrangement, Basic Coffee Preparation, Bartending Service with Cocktail Mixing, Basic Fruit and Vegetable Carving, among others, to enhance their employees' knowledge and skills to be more efficient and productive in their workplace.

NORSU is mandated to provide advanced education, higher technological, professional instruction, and training in arts, sciences, education, commerce, agriculture and forestry, fishery, and other fields of study. It shall also promote research and extension services and provide progressive leadership in its areas of specialization (Republic Act 9299).

NOW, THEREFORE, in recognition of their common interests and objectives, and to supplement and strengthen the existing understandings amongst the Parties concerning cooperation in community development, the Parties confirm their mutual understanding on the following:

### ARTICLE I PURPOSE

- 1.1 The Purpose of this MOA is to provide skills and professional training, knowledge transfer, and seminar to the trainee beneficiaries, to develop them to be productive, valuable, and responsible citizens.
- 1.2 This MOA shall not in any manner supersede the existing understandings and other arrangements between the Parties.

### ARTICLE II SCOPE OF COOPERATION

Within the context of their respective mandates, objectives, and procedures, the Parties shall cooperate in the following areas:

1. Identifying and addressing jointly the issues of priority and concerns of the beneficiaries for the Soft Skills Training, Table Setting, Table Skirting and Flower Arrangement, Basic Coffee Preparation, Bartending Service with Cocktail Mixing,

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Page 1 of 7

### ACKNOWLEDGMENT

Republic of the Philippines  
City of Dumaguete ) S. S.

BEFORE ME, this 9 day of June, 2024, in Dumaguete City, Philippines, personally appeared the following with their respective competent evidence and identity, to wit:

NAME	IDENTIFICATION NUMBER
DR. JOEL P. LIMSON	DL G02-07-004896
ROYANI S. DY	DL G02-93-035747

They are known to me as the same persons who executed the preceding instrument signed by them with their instrumental witness and acknowledged to me that same is their free act and voluntary deed.

This instrument, consisting of SEVEN (7) pages, including the page on which this ACKNOWLEDGMENT is written, has been signed on the margins on each and every page thereof by the parties and their witness and sealed with my notarial seal.

IN WITNESS WHEREOF, I have hereunto set my hand this 9 day of June, 2024, in the City of Dumaguete, Philippines.

ATTY. ALAN JR. A. PANUE  
Roll of Attorneys No. 1277  
Notary Public under No. 21-2015  
Notarial Seal No. 006-019  
IBP No. 000027 / 12-21-2019  
PTB No. 12-17281A / 01-2-2024  
MLEE Compliance No. VII-0002659  
Dr. T. M.D. Bldg., San Jose Ext., Dumaguete City

Doc. No. 153  
Page No. 92  
Book No. II  
Series of 2024.

Page 7 of 7

Memorandum of Agreement



## COLLEGE OF TOURISM AND HOSPITALITY MANAGEMENT NORSU's "Lipayo sa Paglambo" Extension Project: Advancing SDGs through Agritourism and Community Empowerment

Negros Oriental State University (NORSU), through its Hospitality Management and Tourism Management Departments, launched a transformative community-based initiative titled "Lipayo sa Paglambo", translated as "Lipayo Towards Progress: A Joyful Partnership for Sustainable Development." This extension project was designed to empower the Lipayo Farmers' Association (LipFarA) in Dauin, Negros Oriental by enhancing their agribusiness competencies and integrating sustainable tourism practices into their livelihood strategies. Spearheaded by Project Leader Prof. Millard Vaughn Tubog, the program unfolded over a three-month period, delivering targeted training sessions on food processing, packaging, product marketing, and tourism integration. These sessions were co-facilitated by faculty experts and students, fostering a dynamic learning environment that bridged academic theory with real-world application.

The project's design and implementation reflect NORSU's strategic commitment to the United Nations Sustainable Development Goals (SDGs). It directly contributes to SDG 4 (Quality Education) through experiential learning and inclusive capacity-building for both students and community members. Beyond technical training, the project fostered meaningful partnerships among barangay officials, faculty researchers, student volunteers, and community stakeholders—exemplifying SDG 17 (Partnerships for the Goals). These collaborations ensured shared ownership, contextual relevance, and long-term sustainability.

With a modest budget sourced from demo farm allocations, the program demonstrated high-impact outcomes and cost-effective implementation. It also served as a platform for student civic engagement, allowing future hospitality professionals to contribute meaningfully to rural development while gaining field-based experience. "Lipayo sa Paglambo" stands as a model of how higher education institutions can translate academic expertise into grassroots impact. It reflects NORSU's vision of community-responsive education and positions the university as a proactive contributor to global development goals. As such, the project merits recognition under the Times Higher Education Impact Rankings, showcasing how local innovation can drive inclusive growth and sustainable transformation.



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*A globally recognized state university.*

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Trainees from the Lipayo Farmers Association including farmers and their families actively engage in hands-on learning to enhance livelihood opportunities and community resilience. A proud step toward inclusive growth and agricultural innovation.

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Dr. Ryan Tayco and Mr. Arnie Villanueva lead hands-on coffee-making training for Tourism and Hospitality



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students, sharing expert techniques in espresso preparation, milk frothing, and barista artistry. A flavorful step toward industry readiness and service innovation.



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Together with faculty from the College of Business Administration (CBA), the opening program highlighted diverse contributions in business management bringing strategic insights, entrepreneurial skills, and financial literacy to strengthen the outreach initiative's impact.



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## NORSU-CTHM Achieves Over-All Champion in Buglasan Inter-School Tourism and Hospitality Skills Competition 2024

As part of its commitment to inclusive, industry-aligned education and regional collaboration, Negros Oriental State University–College of Tourism & Hospitality Management participated in the Buglasan Inter-School Tourism and Hospitality Skills Competition, held during the Negros Oriental World Tourism Month Celebration. The event convened eight higher education institutions across the province offering hospitality and tourism programs, fostering a dynamic platform for student engagement, technical excellence, and inter-school cooperation.

NORSU-CTHM emerged as the Over-All Champion, excelling in multiple trade areas including tour package development, tour guiding, cooking, table setting, flower arrangement, fruit and vegetable carving, flairtending skills, quiz bee, and sports. This achievement reflects the university’s strategic integration of competency-based training, experiential learning, and community-responsive curriculum design. The competition served not only as a showcase of student talent but also as a mechanism for skills validation, career readiness, and regional benchmarking. Through this initiative, NORSU-CTHM reinforced its role in advancing SDG 4 by promoting quality, practical education; SDG 8 by preparing students for decent work in the tourism sector; and SDG 17 by strengthening partnerships with local institutions and government stakeholders.

This milestone contributes to NORSU’s broader institutional narrative of fostering inclusive growth, skills equity, and sustainable development through education. The university continues to scale its outreach, training, and competition-based programs to ensure that students are equipped not only with technical proficiency but also with the values of innovation, collaboration, and civic responsibility.





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Trophies and triumphs from the Inter-School Tourism and Hospitality Skills Competition, a major highlight of the Negros Oriental World Tourism Month Celebration. Participating institutions showcased excellence in trade skills, creativity, and industry readiness culminating in a proud moment of recognition and regional collaboration.





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Elegance in Execution: First Place in French Service A winning showcase of refined hospitality. This table setting features meticulous skirting, tasteful floral arrangements, and flawless French service presentation. Awarded First Place, it reflects the artistry, precision, and professionalism of the College of Tourism and Hospitality Management.





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NORSU-Main proudly secured 2nd Place in the Tour Package Making Competition, showcasing innovative itinerary design, market alignment, and sustainable tourism strategies. A testament to the students' planning acumen and industry-ready skills.

NORSU-CTHM takes the lead with a First Place win in the Local and International Tour Guiding category—showcasing exceptional communication, cultural fluency, and destination expertise. A proud moment of excellence in hospitality education and global readiness.





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Crowning Excellence in Tourism Representation Congratulations to our Tourism Ambassador (Champion) and Tourism Ambassador (First Place) for embodying the spirit of cultural pride, eloquence, and industry leadership. Their victory reflects the grace, knowledge, and charisma essential to promoting sustainable and inclusive tourism.

## CTHM DAYS SKILLS COMPETITION 2024

The College of Tourism and Hospitality Management (CTHM) at Negros Oriental State University successfully organized its annual CTHM Days Celebration, showcasing a wide array of student-centered hospitality and tourism skills competitions that were free and open to the public. The event served as a dynamic experiential platform for students to demonstrate professional competencies in culinary, hotel operations, and tourism service



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management which are all integral to their final performance evaluation within the academic program.

Themed “Harmony in Hospitality: Fostering Environmental Wellness, Elevating Experiences,” the celebration highlighted the college’s strong commitment to sustainable development in the tourism and hospitality industry. Students applied green practices in food preparation, décor, and guest experience simulation, reinforcing their understanding of sustainability principles that safeguard the environment and enhance community well-being.

A significant feature of this initiative was the active involvement of industry partners, including hotel managers, chefs, restaurateurs, and tourism practitioners, who served as judges, evaluators, mentors, and observers. Their participation ensured industry-aligned assessment and provided real-world feedback, strengthening workforce readiness and employability pathways for students. Public audiences including parents, local community members, and alumni were invited and encouraged to witness the activities, creating a broader community learning environment and celebrating local talent.

Through collaboration, professional exposure, and public engagement, the CTHM Days Celebration bridged academic learning with industry practices and reinforced NORSU’s mission to deliver globally responsive, inclusive, and high-quality education. This initiative exemplifies how the university advances the UN Sustainable Development Goals by SDG 4: Providing equitable access to quality education and hands-on learning opportunities

This annual event continues to serve as a vital convergence point of education, industry innovation, and community participation, uplifting learners and supporting NORSU’s strategic contribution to the global higher education landscape through THE Impact Rankings.



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Our Flair Bartending Champion proves how hands-on training builds confidence, creativity, and career readiness.

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Cake Decorating Competition judged by culinary professionals and witnessed by the community to strengthen industry engagement.

Restaurant owners and hospitality professionals serving as judges and partners during the CTHM Skills Competitions ensuring industry-aligned standards and employability outcomes.



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Students demonstrate table service techniques aligned with global hospitality practices during the Table Setting Competition.





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Cake artists and partners from the culinary sector shared their expertise and showcased their exquisite designs inspiring students and the community through professional creativity and craftsmanship.



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## COLLEGE OF BUSINESS ADMINISTRATION HOSPITALITY MANAGEMENT DEPARTMENT

May 6, 2024

Hon. JOEL P. LIMSON, Ph.D.  
University President  
NORSU

Thru: ROSE MARIE Y. PINILI, Ed.D., Ph.D.  
Vice President for Academic Affairs

NOEL MARION E. YASI, Psy.D.  
Vice-President for Administration and Finance

SIR:

Greetings!

The HM Department is delighted to unveil an exciting array of activities planned for our upcoming 2-day Hospitality Management (HM) Culmination with a string of engaging skills competition activities. This occasion sparks a fervor for excellence among our students as they prepare to demonstrate their refined talents and skills, integral to their **final performance evaluation**. The upcoming presentation, themed "Bountiful Harvest," the students will demonstrate the following expected skills:

1. Battle of the Brains;
2. Wine and Dine;
3. Table Napkin;
4. Bed Making;
5. Coffee Making;
6. Cake Decorating;
7. Culinary Fest;
8. Dessert Flambe; and
9. Entrepreneurial Market Fair.

Recognizing the interconnectedness between environmental sustainability and guest satisfaction, this year's theme, "**Harmony in Hospitality: Fostering Environmental Wellness, Elevating Experiences**," underscores the pivotal role sustainable practices play in shaping memorable guest experiences while safeguarding the planet for future generations. In today's dynamic hospitality landscape, this recognition is increasingly evident.

Moreover, beyond the thrill of competition, the Skills Competition fosters a spirit of camaraderie and collaboration among our students, as they work together to overcome challenges and achieve success. It is a testament to the holistic approach

Approved in Concept  
BCRN 8, 2018  
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(27-9-2018);  
ISO 9001:2015  
Internalization  
(30-10-2019)  
ISO 9001:2015  
Registration  
(27-05-2019)  
Remote Surveillance  
Certification

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## COLLEGE OF BUSINESS ADMINISTRATION HOSPITALITY MANAGEMENT DEPARTMENT

of our HM program, which not only emphasizes technical proficiency but also cultivates essential soft skills such as teamwork, communication, and adaptability.

As we embark on this exhilarating journey of learning and discovery, we are confident that our students will emerge not only as skilled professionals but also as compassionate leaders committed to excellence and innovation in the dynamic field of hospitality.

In view of this, may I humbly request for your kind approval on this 2-day celebration and the use of the university sound system and led wall with 2 podiums on June 16-17, 2024 at NORSU Sports & Cultural Complex. Ingress will be on June 15, 2024.

We look forward to witnessing the passion, dedication, and ingenuity of our students unfold during this unforgettable event.

Anticipating for your kind approval.

Sincerely yours,

TULIP F. LOPEZ, PH.D.  
HM Department Chairperson

Noted by:

ILDEFONSO T. VILLANUEVA, DBA  
CBA Dean

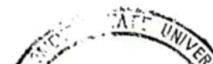
**VISION**  
A dynamic, competitive and globally responsive state university.

**MISSION**  
The University shall provide excellent instruction, relevant and responsive research and extension services, and quality-assured production through competent and highly motivated human capital.

**QUALITY POLICY**  
Negros Oriental State University commits itself to provide quality instruction, research, extension services and production as well as to comply with applicable regulatory requirements and continual improvement of its management system.



Approved in Concept  
BOR No. 8, 2018  
Embodied in ISO





**Office of the College of Business Administration**

Tel. No. 522-5050 loc. 1074 E-mail: [cbanorsumain@gmail.com](mailto:cbanorsumain@gmail.com)

October 22, 2024

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**EDWIN F. ROMANO JR., Ph.D.**  
 Vice President, RIDE  
 Negros Oriental State University

Thru: **DR. GUILBERT NICANOR A. ATILLO**  
 Extension Director

Dear Dr. Atillo,

Respectfully submitting to your good office the Terminal Report of the Extension Activity entitled:

**“NORSU Abot Kamay sa Pag-Asenso Phase II – Business Brilliance: Unveiling the Showcase of Local Entrepreneurs of the DCCCO Guihulngan Branch Business Development Services Through Technical Assistance”**

Attached herewith are the documents for the said extension activity.

Thank you very much for your unending support. More power and God Bless.

Respectfully yours,

**ERNESTO V. TUMACOLE JR. DBA**  
 CBA – Lead Project

Noted:

**DR. BENJAMIN S. VILLAGONZALO JR.**  
 CBA Dean  
 NORSU MC – 1  
 Dumaguete City

## TABLE OF CONTENTS

<b>Number</b>	<b>Title</b>	<b>Page Number</b>
	Transmittal Letter	
	Title Page	
	Table of Contents	
	Letter Request from DCCCO, Guihulngan Branch	
	Endorsement	
	Project Proposal	
	MOA	
	Launching	
	Attendance of Participants	
	Certificate of Recognition from DCCCO, Guihulngan Branch	
	Certificate of Recognition for Trainers	
	Certificate of Appreciation for Student Facilitators	
	Extension Service POST Activity report	
	Implications of the Extension project (Outcome)	
	Report Attachments	
	Need Analysis Data	
	Approved Project Proposal	
	Work Plan and Monitoring log	
	Customer Evaluation and Satisfaction Survey	
	Learners Profile Form	
	Attendance Sheet	

# COMMUNITY EXTENSION SERVICE TERMINAL REPORT

## I. Executive Summary

A. **Project /Service Title** : NORSU ABOT KAMAY sa Pag Asenso Phase II “ Business Brilliance : Unveiling the Showcase of Local Entrepreneurs of the DCCCO Guihulngan Branch Business Development Services,” through Technical Assistance

B. **Extension Program** : Community Development

C. **Project Description** : In this extension, activities were considered in terms of the direct effect they have on the business, in four areas: production, marketing, management, and financial regulatory compliance.

Business development services are important because they can help entrepreneurs run their businesses more effectively and, when used correctly, can improve access to finance and act as an alternative form of "collateral" in situations where tangible collateral is an impediment to meeting financial obligations.

In this regard, the College of Business Administration mean services like training, technology transfer, marketing support, business advice, mentoring, and information that attempt to help small and microbusinesses enhance their performance. The value of a business plan to an entrepreneur begins with its ability to assist the entrepreneur detect potential problems and challenges. It's one thing to say you want to be profitable in your first year of business, but how will you get there?

This is where the College of Business Administration through its competent faculties dedicate to render service by helping our local entrepreneurs in the making of their business plan in order for their business to grow and become bigger.

For example, BDS programs designed to improve production techniques would be classified under production, programs designed to assist micro-entrepreneurs in their marketing efforts would fall under marketing, etc. Following are specific definitions of business activities as they apply to micro enterprise

D. **Proponent** : College Of Business Administration , Main Campus I

E. **Program Beneficiary/Address:** Local : Entrepreneur Members of Cooperative,  
DCCCO Guihulngan Branch

F. **Project Duration** : Three Saturdays

G. **Project Budgetary Requirement** : 46,290.00

H. **Source of Funds** : GAA – NORSU and Industry Partner DCCCO

## II. Details of Accomplishments/Outputs

Please refer to Photos, attendance and post activity extension report

## III. Implication of the Extension Service/Project (Outcome)

The implications of the extension activity entitled “NORSU Abot Kamay sa Pag- Asenso Phase II – Business Brilliance: Unveiling the Showcase of Local Entrepreneurs of the DCCCO Guihulngan Branch Business Development Services Through Technical Assistance” can be significant, impacting various stakeholders, including entrepreneurs, the local economy, and the community as a whole. Below are several examples of the implications associated with such services:

**1. Economic Growth-** Through the availability of training and resources on financial literacy and business planning, DCCCO BDS thru the College of Business Administration can enable local entrepreneurs to start and expand their enterprises, resulting in a rise in local income levels, job creation, and economic activity.

**2. Increased Entrepreneurship** - By giving people the right tools and information, BDS can encourage a mindset of entrepreneurship that will increase the number of business enterprises and technological development in society as a whole.

**3. Skill Development** - Workshops and training sessions can improve employees' and local business owners' knowledge in subjects like management, finance, and marketing, making the workforce more skilled.

**4. Improved Business Sustainability** - Providing ongoing support, such as one-on-one consultations, helps businesses develop sustainable practices, adapt to market changes, and ensure long-term viability.

**5. Community Development** - Businesses that prosper support the community by hiring local workers, generating more sales tax money, and sponsoring regional events, all of which improve community development overall.

**6. Enhanced Innovation** - Exposure to best practices and new technologies through workshops can stimulate innovation among local businesses, leading to the development of new products or services and improving competitiveness.

**7. Social Impact**- Targeted services can address the needs of underrepresented groups, such as women and minorities, helping to reduce inequalities and promote social equity in business ownership and participation.

**8. Market Expansion** - By expanding their reach outside their local area, local businesses can increase their sales and customer base by receiving training in marketing methods and e-commerce.

**IV. Non-conforming service/ problem encountered, correction and corrective actions**

Budgetary Request made by the College of Business Administration were delayed due to circumstances outside of control by the Approving office concerned.

**V. Customer feedback, comment, commendation and recommendation**

Please refer to Customer Satisfaction and Evaluation Survey attached

**VI. Opportunities for improvement/ recommendations**

There are a number of areas that an extension service that specializes in Business Development Services (BDS) can be improved upon, and there are suggestions that can increase the program's efficacy and impact. Here are a few instances:

- 1. Utilization of Technology**  
**Recommendation:** Incorporate technology tools to enhance training delivery, such as webinars, online courses, and digital resources and commercialization of Patented Inventions.  
**Opportunity for Improvement:** Create a dedicated online platform for participants to access materials, share experiences, and network with peers.
  
- 2. Incorporate Case Studies and Real-World Examples**  
**Recommendation:** Use case studies and success stories in training sessions to illustrate key concepts and inspire participants.  
**Opportunity for Improvement:** Invite successful local entrepreneurs to share their experiences, providing relatable role models for participants.
  
- 3. Access to Financial Resources**  
**Recommendation:** Facilitate access to funding sources by hosting workshops with local banks and financial institutions.  
**Opportunity for Improvement:** Provide information on grants, microloans, and investment opportunities available for small businesses.

**VII. Report Attachments**

- |  |  |
|--|--|
| <input type="checkbox"/> Need Analysis Data and Analysis | <input type="checkbox"/> Test reports, as applicable   |
| <input type="checkbox"/> Approved Project Proposal       | <input type="checkbox"/> Photos/ drawings              |
| <input type="checkbox"/> Work plan and monitoring log*   | <input type="checkbox"/> Photocopy of certificates     |
| <input type="checkbox"/> Completed Travel Orders*        | <input type="checkbox"/> Customer Satisfaction Survey* |
| <input type="checkbox"/> Special Order*                  | <input type="checkbox"/> Service Supplier Evaluation*  |
| <input type="checkbox"/> Completed Training Kit          | <input type="checkbox"/> Attendance Sheet              |

*\*Mandatory attachments*

**VIII. Service Conclusion:**  completed  not completed  needs follow up

Prepared By: **DR. Ernesto V. Tumacole Jr.**  
Project Leader/Project Manager

Date: \_\_\_\_\_

Noted By: **DR. Benjamin S. Villagonzalo**  
College Dean

Date: \_\_\_\_\_

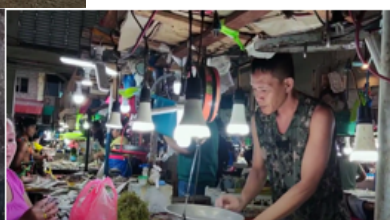
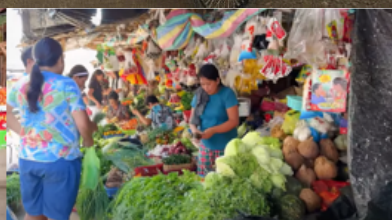
**DR. GUILBERT NICANOR ATILLO**  
OCES Director

Date: \_\_\_\_\_

# TERMINAL REPORT

“NORSU Abot Kamay sa Pag-Asenso Phase II – Business Brilliance: Unveiling the Showcase of Local Entrepreneurs of the DCCCO Guihulngan Branch Business Development Services Through Technical Assistance”

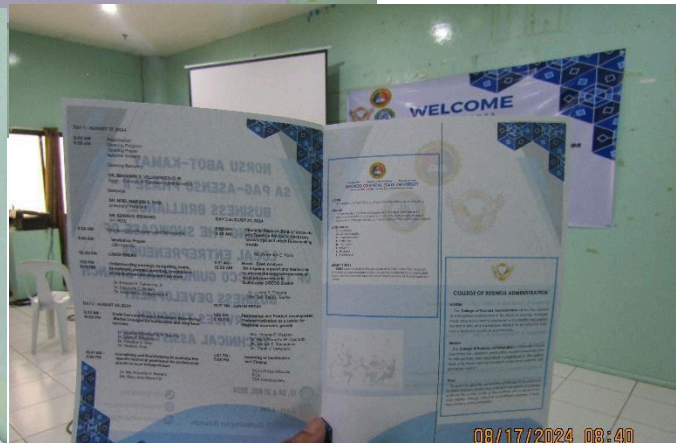
August 17, 24, and 31 2024





# DAY 1 - GUIHULNGAN EXTENSION

8/17/2024 REGISTRATION OF BENEFICIARIES FACILITATED BY THE ACCOUNTANCY STUDENTS





08/17/2024

DR. BESARIO'S LECTURE WITH THE ACCOUNTANCY STUDENTS



08/17/2024 10:00



08/17/2024 10:00

KEEPING ASSISTED BY



08/17/2024 10:53



08/17/2024 10:01



08/17/2024 10:53



08/17/2024 10:53



08/17/2024 10:57





FACULTY OF THE BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION ASSIST THE BENEFICIARIES IN THE POSTING OF THE TRANSACTIONS OF THEIR RESPECTIVE BUSINESSES IN THE LEDGER PROVIDED DURING THE WORKSHOP

## DAY 2 - GUIHULNGAN EXTENSION

8/24/2024- REGISTRATION OF BENEFICIARIES FACILITATED BY THE ACCOUNTANCY STUDENTS





**SERIES OF LECTURES ON DAY 2 INVOLVING TOPICS ON ADVERTISING , MARKETING , LEGAL REQUIREMENTS ON BUSINESS, INVESTMENTS SPEARHEADED BY DR. ILDEFE VILLANUEVA DURING THE MORNING LECTURES**

**AFTERNOON SESSION OF THE SECOND DAY**





LECTURES GIVEN WHICH DISTRIBUTED



08/24/2024 13:27



NA BESARIO AFTER KSHOP

08/24/2024 15:27

# DAY 3 - GUIHULNGAN EXTENSION

8/31/2024 - GRADUATION CEREMONY AND AWARDING OF CERTIFICATES



08/31/2024 08:54



08/31/2024 09:56



08/31/2024 10:14

**SERIES OF LECTURES IN THE MORNING SESSION ON TOPICS JOURNALIZING AND TECHNOLOGY PRODUCT DEVELOPMENT WITH COMMERCIALIZATION**

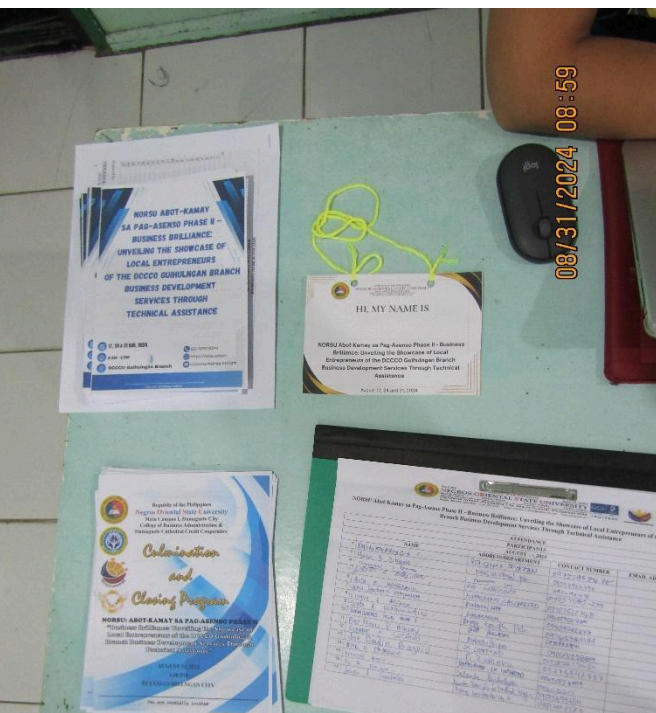


08/31/2024 13:37

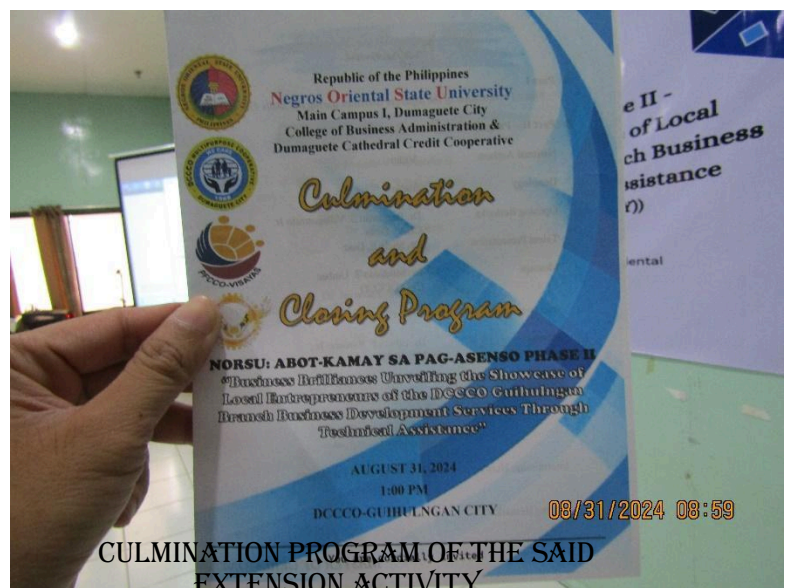
**AWARDING OF CERTIFICATES TO OUR BENEFICIARIES AFTER THE WORKSHOP**



08/31/2024 13:37



08/31/2024 08:59



08/31/2024 08:59

**CULMINATION PROGRAM OF THE SAID EXTENSION ACTIVITY**



CONTINUATION OF THE LECTURES ON THE TOP COMMERCIALIZATION BY MS. HELENE MAZZEO ANSWERS TO QUERY BY THE BENEFICIARIES OF THE PROGRAM AND COPYRIGHT THRU DR. TUMACOLL





AWARDING OF CERTIFICATES TO THE BENEFICIARIES AFTER THE WORKSHOP

October 15, 2024

**MILDREDO T. UMBAC, DM-HRM**  
Chief Executive Officer  
DCCCO Multi Purpose Cooperative  
Dumaguete City

Thru: MR. RITCHIE V. ORDONEZ

Dear Sir,

The College of Business Administration will be participating the RIDE Congress this coming Friday, October 18, 2024, the purpose of which is to showcase the remarkable contributions of Extension Activity to the Community. We are excited to announce the College of Business Administration participation thru its partner BDS - DCCCO in the upcoming RIDE Congress taking place on October 18, 2024 at NORSU gym from 8:00-5:00. As a valued partner in our University, we would like to extend a warm invitation for you to join us for a special showcase of the latest products of the BDS local Entrepreneurs during this esteemed event.

This will be an excellent opportunity for our Local Entrepreneurs in the BDS - DCCCO to discover innovative solutions, network with industry professionals, and engage in insightful discussions. We will be featuring "cutting-edge technologies designed to improve efficiency and enhance user experience"

Attached to this letter is the approved RIDE Congress activity. We believe that your presence would greatly enrich our presentation, and we are eager to share our vision and developments with our local Entrepreneurs.

We would be grateful if you could confirm your attendance. Should you have any questions or need further information, please do not hesitate to reach out to me directly.

Thank you for considering our invitation. We look forward to welcoming you and showcasing your innovations at RIDE Congress, NORSU.

Warm regards,



ERNESTO V. UMACORE Jr. DBA  
Faculty CBA

Noted by:

DR. GUILBERT NICANOR ATILLO  
RIDE, Extension Director







Republic of the Philippines

**NEGROS ORIENTAL STATE UNIVERSITY**

**NORSU Chemical Society**

**Kagawasan Avenue, Dumaguete City | Main Campus I**

## QUIZBOWL GUIDELINES AND MECHANICS

### I. GUIDELINES

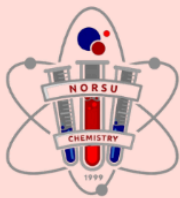
1. Each team will consist of 2 bonafide Grade 11 or 12 student currently enrolled in the STEM or SPS program from the invited senior high schools in Negros Oriental and Siquijor, ensuring participation from those who have already covered basic chemistry concepts in their curriculum.
2. Each team is to confirm their participation in advance upon receiving the invitation by emailing the names of the participants through: [chemistrydept@norsu.edu.ph](mailto:chemistrydept@norsu.edu.ph), with the subject titled “[School Name] QB Participants”.
3. The quiz bowl is scheduled on **December 13, 2024, 8 AM TO 11 AM**, at **CIT AVR NORSU Main Campus I**.
4. Students should demonstrate a genuine interest in chemistry, though no prior experience in competitions is required. This allows beginners and experienced participants to join.
5. Participants should uphold the values of **sportsmanship, teamwork, and respect** for competitors, moderators, and the organizing committee.

### II. MECHANICS

1. Each team will be given the following materials:
  - ¼ size illustration board
  - Chalk
  - Scientific Calculator
2. Questions will cover general chemistry and basic organic chemistry.
3. There shall be 3 rounds for the quiz bowl.

Round	Number of Questions	Points	Time (seconds)
Easy	15	1	15
Average	10	3	30
Difficult	10	5	60

4. The Quiz Master shall read the question twice and the question shall be flashed on a screen after the first reading. The quizmaster shall say “GO” after the second reading, only then the participants start writing their answers. In case of problem solving questions, the participants may begin writing their computations after the first reading.
5. A buzzer will indicate that the time is up and participants should raise their boards to show their answers. Failure to do so will signal a warning for the first and second offense, and disqualification for the third.
6. Wrong spelling and illegible answers are considered wrong. Final answers must be written legibly.
7. Any appeal regarding the preceding question will only be entertained before the quizmaster proceeds to the next question.
8. The participants are **PROHIBITED** to use any communication device during the competition.



Republic of the Philippines

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**Kagawasan Avenue, Dumaguete City | Main Campus I**

9. The total number of points will determine the top 3 winners of the Chem Clash: Inter-School Chemistry Quiz Bowl.
10. Coaching from the audience is strictly prohibited.
11. In case of a tie, 3 Clincher questions will be asked, each worth 5 points. If the tie is not broken, Do or Die questions will be asked. The team to get the correct answer and scores first will be declared as winner of the tie.
12. The decision of the judges is final and irrevocable.



Republic of the Philippines

**NEGROS ORIENTAL STATE UNIVERSITY**

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**Kagawasan Avenue, Dumaguete City | Main Campus I**

November 12, 2024

**DR. NERI C. OJASTRO, CESO V**

Schools Division Superintendent

Division of Negros Oriental

Subject: **Invitation to Chemistry Quiz Bowl**

Greetings!

The Department of Chemistry at Negros Oriental State University is inviting various senior high schools to the '**Chem Clash: Inter-School Chemistry Quiz Bowl**'. The event will take place at the Library Conference Room, NORSU Main Campus I on November 29, 2024, from 8:00 AM to 12:00 PM. This competition not only aims to foster academic excellence and promote a deeper understanding of chemistry but we also want to inspire young minds to pursue careers in the chemical field, contributing to scientific innovation and societal advancement.

The senior high school departments of the following schools are invited to the competition.

1. Ayungon Science High School
2. Dauin Science High School
3. Demetrio L. Aviola National High School
4. Mabinay Science High School
5. Manjuyod Science High School
6. Negros Oriental High School
7. Sibulan Science High School
8. Sta. Catalina Science High School
9. Tayasan National Science High School
10. Zamboanguita Science High School
11. Siaton Science High School

The guidelines and mechanics of the competition are attached to this letter. We kindly ask that the invited schools to confirm their intention to join by sending an email to [chemistrydept@norsu.edu.ph](mailto:chemistrydept@norsu.edu.ph).

We look forward to your positive response.

Sincerely,

**SOPHIA YVAUGHN G. KADILE**

President, NORSU Chemical Society

**MICHAELANGELO R. CIRCULADO**

Adviser, NORSU Chemical Society

Noted by:

**DELFIN G. MAHINAY, JR.**

Chairperson, Department of Chemistry



Republic of the Philippines

**NEGROS ORIENTAL STATE UNIVERSITY**

**NORSU Chemical Society**

**Kagawasan Avenue, Dumaguete City | Main Campus I**

November 12, 2024

**ATTY. ESTER A. FUTALAN**  
Schools Division Superintendent  
Division of Canlaon City

Subject: **Invitation to Chemistry Quiz Bowl**

Greetings!

The Department of Chemistry at Negros Oriental State University is inviting various senior high schools to the '**Chem Clash: Inter-School Chemistry Quiz Bowl**'. The event will take place at the Library Conference Room, NORSU Main Campus I on November 29, 2024, from 8:00 AM to 12:00 PM. This competition not only aims to foster academic excellence and promote a deeper understanding of chemistry but we also want to inspire young minds to pursue careers in the chemical field, contributing to scientific innovation and societal advancement.

The senior high school departments of **Jose B. Cardenas Memorial High School – Uptown Campus** are invited to the competition.

The guidelines and mechanics of the competition are attached to this letter. We kindly ask that the invited schools to confirm their intention to join by sending an email to [chemistrydept@norsu.edu.ph](mailto:chemistrydept@norsu.edu.ph).

We look forward to your positive response.

Sincerely,

**SOPHIA YVAUGHN G. KADILE**

President, NORSU Chemical Society

**MICHAELANGELO R. CIRCULADO**

Adviser, NORSU Chemical Society

Noted by:

**DELFIN G. MAHINAY, JR.**

Chairperson, Department of Chemistry



Republic of the Philippines

**NEGROS ORIENTAL STATE UNIVERSITY**

**NORSU Chemical Society**

**Kagawasan Avenue, Dumaguete City | Main Campus I**

November 12, 2024

**DR. ANELITO A. BONGCAWIL, CESO VI**

Schools Division Superintendent

Division of Bayawan City

**Subject: Invitation to Chemistry Quiz Bowl**

Greetings!

The Department of Chemistry at Negros Oriental State University is inviting various senior high schools to the '**Chem Clash: Inter-School Chemistry Quiz Bowl**'. The event will take place at the Library Conference Room, NORSU Main Campus I on November 29, 2024, from 8:00 AM to 12:00 PM. This competition not only aims to foster academic excellence and promote a deeper understanding of chemistry but we also want to inspire young minds to pursue careers in the chemical field, contributing to scientific innovation and societal advancement.

The senior high school departments of the following schools are invited to the competition.

1. Bayawan City Science & Technology Education Center-HS
2. Bayawan National High School

The guidelines and mechanics of the competition are attached to this letter. We kindly ask that the invited schools to confirm their intention to join by sending an email to [chemistrydept@norsu.edu.ph](mailto:chemistrydept@norsu.edu.ph).

We look forward to your positive response.

Sincerely,

**SOPHIA YVAUGHN G. KADILE**

President, NORSU Chemical Society

**MICHAELANGELO R. CIRCULADO**

Adviser, NORSU Chemical Society

Noted by:

**DELFIN G. MAHINAY, JR.**

Chairperson, Department of Chemistry



Republic of the Philippines

**NEGROS ORIENTAL STATE UNIVERSITY**

**NORSU Chemical Society**

**Kagawasan Avenue, Dumaguete City | Main Campus I**

November 12, 2024

**DR. MARINA S. SALAMANCA, CESO VI**

OIC, Schools Division Superintendent

Division of Dumaguete City

**Subject: Invitation to Chemistry Quiz Bowl**

Greetings!

The Department of Chemistry at Negros Oriental State University is inviting various senior high schools to the ‘**Chem Clash: Inter-School Chemistry Quiz Bowl**’. The event will take place at the Library Conference Room, NORSU Main Campus I on November 29, 2024, from 8:00 AM to 12:00 PM. This competition not only aims to foster academic excellence and promote a deeper understanding of chemistry but we also want to inspire young minds to pursue careers in the chemical field, contributing to scientific innovation and societal advancement.

The senior high school departments of the following schools are invited to the competition.

1. Ramon Teves Pastor Memorial – Dumaguete Science High School
2. Dumaguete City National High School
3. Junob National High School

The guidelines and mechanics of the competition are attached to this letter. We kindly ask that the invited schools to confirm their intention to join by sending an email to [chemistrydept@norsu.edu.ph](mailto:chemistrydept@norsu.edu.ph).

We look forward to your positive response.

Sincerely,

**SOPHIA YVAUGHN G. KADILE**

President, NORSU Chemical Society

**MICHAELANGELO R. CIRCULADO**

Adviser, NORSU Chemical Society

Noted by:

**DELFIN G. MAHINAY, JR.**

Chairperson, Department of Chemistry



Republic of the Philippines

**NEGROS ORIENTAL STATE UNIVERSITY**

**NORSU Chemical Society**

**Kagawasan Avenue, Dumaguete City | Main Campus I**

November 12, 2024

**DR. BERNADETTE A. SUSVILLA, CESO VI**

Schools Division Superintendent

Bais City Schools Division

Subject: **Invitation to Chemistry Quiz Bowl**

Greetings!

The Department of Chemistry at Negros Oriental State University is inviting various senior high schools to the '**Chem Clash: Inter-School Chemistry Quiz Bowl**'. The event will take place at the Library Conference Room, NORSU Main Campus I on November 29, 2024, from 8:00 AM to 12:00 PM. This competition not only aims to foster academic excellence and promote a deeper understanding of chemistry but we also want to inspire young minds to pursue careers in the chemical field, contributing to scientific innovation and societal advancement.

The senior high school departments of **Bais City National Science High School** are invited to the competition.

The guidelines and mechanics of the competition are attached to this letter. We kindly ask that the invited schools to confirm their intention to join by sending an email to [chemistrydept@norsu.edu.ph](mailto:chemistrydept@norsu.edu.ph).

We look forward to your positive response.

Sincerely,

**SOPHIA YVAUGHN G. KADILE**

President, NORSU Chemical Society

**MICHAELANGELO R. CIRCULADO**

Adviser, NORSU Chemical Society

Noted by:

**DELFIN G. MAHINAY, JR.**

Chairperson, Department of Chemistry



Republic of the Philippines

**NEGROS ORIENTAL STATE UNIVERSITY**

**NORSU Chemical Society**

**Kagawasan Avenue, Dumaguete City | Main Campus I**

November 12, 2024

**DR. ORLANDO G. CADANO, CESO VI**

Schools Division Superintendent

Division of Guihulngan City

**Subject: Invitation to Chemistry Quiz Bowl**

Greetings!

The Department of Chemistry at Negros Oriental State University is inviting various senior high schools to the '**Chem Clash: Inter-School Chemistry Quiz Bowl**'. The event will take place at the Library Conference Room, NORSU Main Campus I on November 29, 2024, from 8:00 AM to 12:00 PM. This competition not only aims to foster academic excellence and promote a deeper understanding of chemistry but we also want to inspire young minds to pursue careers in the chemical field, contributing to scientific innovation and societal advancement.

The senior high school departments of **Guihulngan National High School-Poblacion** are invited to the competition.

The guidelines and mechanics of the competition are attached to this letter. We kindly ask that the invited schools to confirm their intention to join by sending an email to [chemistrydept@norsu.edu.ph](mailto:chemistrydept@norsu.edu.ph).

We look forward to your positive response.

Sincerely,

**SOPHIA YVAUGHN G. KADILE**

President, NORSU Chemical Society

**MICHAELANGELO R. CIRCULADO**

Adviser, NORSU Chemical Society

Noted by:

**DELFIN G. MAHINAY, JR.**

Chairperson, Department of Chemistry



Republic of the Philippines

**NEGROS ORIENTAL STATE UNIVERSITY**

**NORSU Chemical Society**

**Kagawasan Avenue, Dumaguete City | Main Campus I**

November 12, 2024

**DR. ROSALIE M. PASAOL, CESO V**

Schools Division Superintendent

Division of Siquijor

**Subject: Invitation to Chemistry Quiz Bowl**

Greetings!

The Department of Chemistry at Negros Oriental State University is inviting various senior high schools to the '**Chem Clash: Inter-School Chemistry Quiz Bowl**'. The event will take place at the Library Conference Room, NORSU Main Campus I on November 29, 2024, from 8:00 AM to 12:00 PM. This competition not only aims to foster academic excellence and promote a deeper understanding of chemistry but we also want to inspire young minds to pursue careers in the chemical field, contributing to scientific innovation and societal advancement.

The senior high school departments of **Siquijor Provincial Science High School** are invited to the competition.

The guidelines and mechanics of the competition are attached to this letter. We kindly ask that the invited schools to confirm their intention to join by sending an email to [chemistrydept@norsu.edu.ph](mailto:chemistrydept@norsu.edu.ph).

We look forward to your positive response.

Sincerely,

**SOPHIA YVAUGHN G. KADILE**

President, NORSU Chemical Society

**MICHAELANGELO R. CIRCULADO**

Adviser, NORSU Chemical Society

Noted by:

**DELFIN G. MAHINAY, JR.**

Chairperson, Department of Chemistry



Republic of the Philippines

**NEGROS ORIENTAL STATE UNIVERSITY**

**NORSU Chemical Society**

**Kagawasan Avenue, Dumaguete City | Main Campus I**

November 12, 2024

**DR. ESTELLA B. SUSVILLA, CESO VI**

Schools Division Superintendent

Division of Tanjay City

**Subject: Invitation to Chemistry Quiz Bowl**

Greetings!

The Department of Chemistry at Negros Oriental State University is inviting various senior high schools to the '**Chem Clash: Inter-School Chemistry Quiz Bowl**'. The event will take place at the Library Conference Room, NORSU Main Campus I on November 29, 2024, from 8:00 AM to 12:00 PM. This competition not only aims to foster academic excellence and promote a deeper understanding of chemistry but we also want to inspire young minds to pursue careers in the chemical field, contributing to scientific innovation and societal advancement.

The senior high school departments of **Tanjay City Science High School** are invited to the competition.

The guidelines and mechanics of the competition are attached to this letter. We kindly ask that the invited schools to confirm their intention to join by sending an email to [chemistrydept@norsu.edu.ph](mailto:chemistrydept@norsu.edu.ph).

We look forward to your positive response.

Sincerely,

**SOPHIA YVAUGHN G. KADILE**

President, NORSU Chemical Society

**MICHAELANGELO R. CIRCULADO**

Adviser, NORSU Chemical Society

Noted by:

**DELFIN G. MAHINAY, JR.**

Chairperson, Department of Chemistry



Republic of the Philippines

**NEGROS ORIENTAL STATE UNIVERSITY**

**NORSU Chemical Society**

**Kagawasan Avenue, Dumaguete City | Main Campus I**

## QUIZBOWL GUIDELINES AND MECHANICS

### GENERAL STRUCTURE

- The quiz bowl will follow a head-to-head format.

*-In a head-to-head format, participants directly compete against each other in the same match or game, with both trying to outscore the other. The team with the most points at the end of the match wins.*

- A team will consist of 2 students.
- The quiz bowl will begin in at exactly 8 am and will end at 11pm.
- Trophies and medals will be given to the top 3 finalists, while certificates of participation will be given to all participants.

### FLOW

- Each team will be given a board and marker to write their answer.
  - A Quizmaster, a Timer, and a Scorer shall be assigned to facilitate the competition.
  - The Quiz Master shall read the question while it is also being flashed on a screen for the contestants to see.
  - All answers must be written on the black part of the illustration board provided for each team. It shall be raised when the allotted time is over, and failure to do so will signal a warning for the first offense and disqualification for the second.
  - Any question or query to the correctness of the answers should be raised before the start of the next question. Faculty members will be assigned to evaluate and decide in cases of queries and complaints.
- ❖ *Cellular or mobile phones or any kind of devices that can search and scan ARE NOT allowed during the competition.*

### ROUNDS AND POINTS SYSTEM

There shall be three rounds for the quiz bee and each round have varying points depending on the level of difficulty'

**The Easy Round** in this round question are consist of general knowledge question relating to chemistry. Each question in this round is worth 1 point.

**The Average Round** this round the questions is consist of introduction to organic chemistry, and general chemistry. Each correct answers in this round are worth 3 points.

**the Difficult Round** on this round problem solving questions will be given and first one to answer correctly will be rewarded with 5 points.

In the case of tie, Clincher questions will be raised. There shall be 3 multiple choice Clincher questions and every question is worth 5 points.



Republic of the Philippines

**NEGROS ORIENTAL STATE UNIVERSITY**

**NORSU Chemical Society**

**Kagawasan Avenue, Dumaguete City | Main Campus I**

### Qualifications to Join the Chemistry Quiz Bowl

- Open to students from **Grades 11 to 12**, ensuring participation from those who have already covered basic chemistry concepts in their curriculum.
- Students should demonstrate a genuine interest in chemistry, though no prior experience in competitions is required. This allows beginners and experienced participants to join.
- Participants must be **enrolled in a high school** in Negros Oriental.
- Teams must confirm their participation in advance upon receiving the invitation by emailing the names of the participants through the email provided, with the subject titled “[School Name] QB Participants”.
- Participants should uphold the values of **sportsmanship, teamwork, and respect** for competitors, moderators, and the organizing committee.
- Only Lunch and snacks will be provided.



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**VISION STATEMENT***A globally recognized state university.***MISSION STATEMENT***Negros Oriental State University delivers global excellence through advanced instruction, impactful research, and modern infrastructure shaping effective leaders to serve the Philippine society and the world.***QUALITY POLICY***Negros Oriental State University commits to delivering quality instruction, research, extension and production. We ensure compliance with all statutory and regulatory requirements and continuously work to improve our management system to meet our quality objectives.**Approved BOR No. 133 s. 2024 Embodied in ISO 9001:2015 (27-9-2019); (05-08-2020)**ISO 9001:2015 Internalization (30-10-2019)**ISO 9001:2015 Registration (27-05-2019)**Remote Surveillance Certification (05-05-2020)*

<b>Title of Activity</b>	<b>Chem Clash: Inter-School Chemistry Quiz Bowl</b>
<b>Date</b>	December 13, 2024
<b>Participants/Benefis</b>	Faculty, Alumni, and Students of the Department of Chemistry

The NORSU Department of Chemistry, in collaboration with the NORSU Chemical Society (NCS), successfully conducted the inaugural ChemClash: Inter-School Chemistry Quiz Bowl on **December 13, 2024**, at the CIT AVR. Spearheaded by Prof. Delfin G. Mahinay and supported by the NCS officers, the event aimed to promote academic excellence in chemistry and foster friendly competition among high school students across the region.

A total of 13 schools participated in the competition, with Negros Oriental High School emerging as Champion followed by Siquijor Provincial Science High School and Junob National High School, respectively. Other participating schools included Ayungon Science High School, Bayawan City Science and Technology Education Center, Bayawan National High School, Dumaguete City National High School, Mabinay Science High School, Manjuyod Science High School, Sta. Catalina Science High School, Sibulan Science High School, Siaton Science High School, and Zamboanguita Science High School. The quiz bowl was facilitated by Mr. Michael Angelo R. Circulado as the quiz master. The panel of judges featured esteemed faculty from the Department of Chemistry: Dr. Edwin F. Romano Jr., Prof. Delfin G. Mahinay, and Mr. Jay Cezar. The success of ChemClash highlighted the department's commitment to promoting science education and the NCS's role in advancing academic outreach.

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## DOCUMENTATION

### VISION STATEMENT

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### MISSION STATEMENT

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*College of Arts and Sciences*  
*Department of Chemistry*

## ACTIVITY DESIGN

### VISION

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The University shall provide excellent instruction, relevant and responsive research and extension services, and quality-assured production through competent and highly motivated human capital.

### QUALITY POLICY

Negros Oriental State University commits itself to provide quality instruction, research, extension services and production as well as to comply with applicable regulatory requirements and continual improvement of its management system.

BOR No. 8, s. of 2018

- I. Program/Project/Activity Title**  
Chem Clash: Inter-School Chemistry Quiz Bowl
- II. Implementing Office**  
Chemistry Department  
Delfin G. Mahinay, Jr. – Proponent
- III. Location**  
Kagawasan Avenue, Dumaguete City, Negros Oriental
- IV. Target Number of Participants**  
48 – Senior High School Students  
12 – Teacher Chaperone
- V. Total Project Cost**  
₱20,000.00
- VI. Implementation Schedule**  
November 29, 2024
- VII. Duration**  
Half-fay
- VIII. Venue**  
NORSU Library Conference Room  
NORSU Main Campus I
- IX. Rationale**  
Chemistry, often hailed as the "central science," bridges the gap between physics, biology, and the world we interact with daily. or senior high school students, engaging with chemistry not only enhances their understanding of the material world but also sharpens their analytical and problem-solving skills, which are essential in scientific pursuits and everyday life.  
The Chem Clash: Inter-School Chemistry Quiz Bowl aims to inspire curiosity and passion for chemistry among students while promoting the Chemistry Department. This event provides a platform for students to showcase their knowledge, engage in friendly competition, and explore the diverse career opportunities available in chemistry. Additionally, the event encourages more students to consider enrolling in the Chemistry Department and pursuing STEM-related fields.
- X. Terminal Objective**  
By the end of the quiz bowl, students will demonstrate their understanding of fundamental and applied chemistry concepts by answering a series of challenging questions, showcasing their mastery

ID				Page   1
Issue Date		Issue Status		
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BOR No. 8, s. of 2018

of the subject matter, and fostering interest in pursuing chemistry and related fields. The event will also serve as a promotional tool to attract more students to enroll in the Chemistry Department.

**XI. Enabling Objectives**

- Promote healthy competition and collaboration among students from different schools.
- Encourage interest in chemistry and STEM careers, boosting enrollment in the Chemistry Department.
- Recognize academic excellence and develop participants' problem-solving skills.
- Create networking opportunities for students and educators in the field of chemistry.

**XII. Expected Outputs**

- Chemistry Knowledge Showcase. Students will successfully participate in the quiz bowl, demonstrating their knowledge and comprehension of chemistry concepts.
- Increased Interest in Chemistry and Department Enrollment. A measurable increase in student interest in chemistry, reflected by inquiries about the Chemistry Department, and increased enrollment in the department.
- STEM Career and Department Awareness. Participants will leave the event with a greater awareness of chemistry-related careers, STEM fields, and academic opportunities within the university, boosting the university's visibility and appeal.

**XIII. Activity Description**

Face-to-Face Interactive Quiz Competition

**XIV. Performance Indicators**

- Team Collaboration  
Level of teamwork and collaboration during the competition, as observed through the ability to work cohesively, communicate effectively, and solve problems as a group.
- Student Engagement  
Degree of active participation throughout the quiz bowl, including answering questions, engaging in discussions, and participating in problem-solving activities.
- Interest in Chemistry Department and the University  
Number of students who express interest in enrolling in the Chemistry Department and courses offered by the university as captured through post-event inquiries.
- Satisfaction and Event Impact  
Percentage of participants and educators who rate the event as "highly valuable" in post-event evaluations, highlighting the effectiveness of the competition in promoting interest in STEM fields.

ID				Page   2
Issue Date		Issue Status		
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**XV. List of Participants**

The activity will be participated by senior high students from:

- 1 Ayungon Science High School
- 2 Dauin Science High School
- 3 Mabinay Science High School
- 4 Manjuyod Science High School
- 5 Bais City National Science High School
- 6 Tanjay City Science High School
- 7 Sibulan Science High School
- 8 Sta. Catalina Science High School
- 9 Tayasan National Science High School
- 10 Zamboanguita Science High School
- 11 Siaton Science High School
- 12 Ramon Teves Pastor Memorial - Dumaguete Science High School

**XVI. Budgetary Requirements**

Particulars	Specifications	Quantity	Unit Cost	Source of Funds	Amount
Snacks	Snacks and Drinks for Participants and Chaperone	60 pax	₱150.00	MOOE	₱9,000.00
Trophies	Trophies for winners	3 sets	₱800.00		₱2,400.00
Certificates	Certificates for participants	48 pcs	₱10.00		₱480.00
Supplies	Quiz Materials (whiteboards, whiteboard markers, buzzer system)	Lump sum	₱8,120.00		₱8,120.00
<b>TOTAL</b>					<b>₱20,000.00</b>

**XVII. Source of Funds**

ID				Page   3
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**College of Arts and Sciences**  
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School MOOE

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**XVIII. Matrix of Activities****Facilitated by NORSU Chemical Society Officers and Committee**

Time	Topics/Activities	Facilitator(s)
1:00 – 1:30 PM	Registration	Student Facilitator
1:30 – 2:00 PM	Opening Program and Reading of Guidelines	NCS Officers
2:00 – 3:00 PM	Quiz Bowl	Student Facilitator
3:00 – 3:10 PM	SNACKS AND COUNTING OF SCORES	
3:10 – 3:40 PM	Awarding of Winners	NCS Adviser and Department Chairman
3:40 – 4:00 PM	Closing Program	NCS Officers
4:00 – 4:20 PM	Aftercare	NCS Committee

ID				Page   4
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Prepared & Organized by:

**DELFIN G. MAHINAY, JR., RCh., MSCHEM**  
Chairman, Department of Chemistry

Noted by:

**MICHAEL P. BALDADO, Jr., PhD**  
Dean, College of Arts and Sciences

**ALBERT VILLARIN**  
Supervisor, Buildings and Grounds

Availability of Funds:

**RENEBOY A. CATUBIG, CPA**  
Acting – Chief Administrative Officer, Finance

**MAURICE ANAVER D. DORDADO, CPA**  
University Accountant

Recommending Approval:

**ROSE MARIE T. PINILI, PhD**  
Vice-President, Academic Affairs  
Finance

**MERIVIC G. CATADA, PhD**  
Vice-President, Administration and

Approved:

**DR. NOEL MARJON E. YASI, PsyD**  
University President, NORSU

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December 02, 2024

**HON. NOEL MARJON E. YASI, PSY D.**  
 President  
 Negros Oriental State University  
 Dumaguete City

Thru **Merivic G. Catada, Ph.D.**  
 Vice President – Administration and Finance

Dear **Dr. YASI,**

Warm greetings!

This is in relation to the letter given, due to the requests of some schools we have decided to postpone the event.

The Department of Chemistry at Negros Oriental State University is conducting an event called '**Chem Clash: Inter-School Chemistry Quiz Bowl**'. This competition not only aims to foster academic excellence and promote a deeper understanding of chemistry but we also want to inspire young minds to pursue careers in the chemical field, contributing to scientific innovation and societal advancement.

The event will be overseen and led by the faculty of the Department of Chemistry, ensuring that the competition upholds high academic standards and provides mentorship and guidance to all participants. This activity aligns with the university's broader mission to promote academic excellence and innovation at the senior high level.

We propose to hold the event in the CIT AVR, a venue that we believe will be suitable due to its excellent facilities and capacity, on December 13, 2024, from 1:00 PM- 5:00 PM.

In line with this, we are requesting for your approval to hold the aforementioned event. Furthermore, we would also like to request for the following amenities and equipment:

- Sound system
- Microphone
- CIT AVR with Air-conditioned system

We look forward to your positive response in making this event a reality. Thank you for considering this proposal.

Sincerely,

**Delfin G. Mahinay, Jr., RCh., MSChem**  
 Chair, Department of Chemistry

Noted by:

**Michael P. Baldado, Jr., Ph.D.**  
 Dean, College of Arts and Sciences

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quality-assured  
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and highly  
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capital.

**QUALITY POLICY**

Negros Oriental  
State University  
commits  
itself to provide  
quality instruction,  
research, extension  
services and  
production  
as well as  
to comply with  
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ID				Page   2
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