# GREEN PRACTICES IN THE OPERATIONS OF LYCEUM OF THE PHILIPPINES UNIVERSITY CAVITE: BASIS FOR DEVELOPING AN OPERATIONAL GUIDELINES FOR THE EMPLOYEES

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Abstract: The purpose of this research is to determine the level of performances of the different offices in LPU Cavite in terms of green practices for the improvement of the organization's environmental performance. This will serve as the basis of developing operational guidelines for the employees. The descriptive research design was used. On the other hand, the comparative research method was used to determine if significant differences exist in the observation of the participants on the green practices when grouped by the type of participants. The study also used descriptive-correlational research methods to determine the significant relationship between the demographic profile and green practices in the operations of LPU Cavite. The majority of the participants are the non-teaching staffs of LPU Cavite, ages ranged from 26 to 30 years old, most are females, college graduates, and stayed in LPU Cavite between 1 to 5 years. The results revealed that among the observation of green practices, resource management has the highest mean of 4.44 while the indicator implementation and monitoring has the lowest mean of 3.98. There is no significant difference in the observation of the participants of green practices when grouped according to age, marital status, educational attainment, occupation, employment status, and length of service except for gender in relation to stakeholder support. Lastly, there is no significant relationship between demographic profile and green practices except for the length of service in relation to resource management and occupation in relation to facilities usage. It can be concluded that the non-teaching staffs apparently were more involved in daily resource management routine, including conservation, using environment-friendly products, and recycling. However, strict monitoring and implementation of these activities were least observed by employees that could affect the environmental initiatives of LPU Cavite. Females were more conscious and supportive in implementing green practices for the protection of the environment. Employees who stayed more than a year in the company were more committed to practicing sustainability in relation to resource management like saving energy and recycling waste. Among LPU Cavite non-teaching employees, rank and file staffs are more observant in applying green practices in using Facility and resources efficiently. It is recommended that LPU Cavite will consider the proposed operational guidelines for the implementation of green practices in LPU Cavite.

Keywords: Green practices; employees; LPU Cavite; operational guidelines.

### I. INTRODUCTION

Through rapid paces of growth and development, apparent competition over innovation, market share, customer patronization, branding among others intensify more the global industry. Emerging countries such as the Philippines, continuously pave the way to mark the global competition by improving processes and producing quality outputs in order to attract more investors. Along with this highly industrialized environment, no one has the best of both worlds. Strive for

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success directly implies destructive impacts on the society, community, and environment as a whole. In highly innovative industries such as the academe, being recognized for international standardization is an ultimatum. Along with the notion of producing industry competitive students with a high orientation to research and business endeavors, the process of getting quality output must as well mention the efficient and effective undertaking an organization practices on its daily operations. The study primarily emphasized the green practices in the operations of Lyceum Philippines University Cavite for the basis of developing operational guidelines for the employees. LPU Cavite being the "First and only Resort Campus" in the Philippines highlights its modern and elegant architectural design. While this physical attribution has apparently set as an edge over competitors, the researchers aimed to examine on the other hand the university's operational practices that would reflect its capacity in minimizing impacts to the environment.

## II. METHODS AND PROCEDURE

The descriptive research design was used in this study to establish a concrete basis of conclusions. This descriptive model was used because it is more expansive and encompassing than any other methods of investigation. Also, with the aid of descriptive research design, the researchers obtained the needed information in order to determine the demographic profile and degree of observation of the participants on green practices in their operations at LPU Cavite. On the other hand, the comparative research method was used to determine if significant differences exist in the observation of the participants on the green practices when grouped by the type of participants. The study also used descriptive-correlational research methods; such determined the significant relationship between the demographic profile and green practices in the operations of LPU Cavite.

The participants of the study were the non-teaching employees of LPU Cavite. Based on the records of the Human Resources Department of LPU Cavite, a total of 195 composed of male and female. However, only 92 non-teaching employees were subjects of analysis. The sampling technique used by the researchers was purposive sampling

To obtain the primary data for this study, the researchers used a survey questionnaire. The questionnaire used for the actual survey was an adapted survey questionnaire which was taken from the study on green practices conducted by Rojo et al., (2012) and subsequently modified by the researchers.

The draft of the survey questionnaire was content validated by CBA faculty members of LPU Cavite and was pre-tested to 15 individuals other than the target participants using Cronbach Reliability Test. The participants and their answers were not part of the actual process of the study but were only used for testing purposes. The purpose of the test was to prove that no lapses and gaps presented during the pre-test, thus, making the instrumentation of the researchers a comprehensive, direct, and effective one.

### III. RESULTS AND DISCUSSION

From Table 1, it is evident that the majority of the participants were between the ages of 26 to 30 years old (35%) and only 15 percent were at the ages of 31 to 35 years old. In terms of gender, 73% of the participants were "female" and only 27 percent were "male." The majority (58%) of the participants were single in terms of their "marital status." 50 percent of the participants were "college" graduates and only 2 percent were "high school" graduates. Regarding the "length of service," 47 percent of the participants were at the institution for about one to five years. It appears that 55 percent of the participants were "regular" in their "employment status" and a majority (89%) of them were "rank and file."

Characteristic	Category	Frequency	Percentage
Age group	21 to 25 years old	28	30.4
	26 to 30 years old	32	34.8
	31 to 35 years old	14	15.2
	36 years old and above	18	19.6
Gender	Male	25	27.2
	Female	67	72.8
Marital status	Single	53	57.6
	Married	39	42.4
Highest educational	High School	2	2.2
attainment	College	46	50.0

**Table 1: Profile of the participants** 

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	Graduate School	35	38.0
	Post Graduate	9	9.8
Employment status	Contractual	41	44.6
	Regular	51	55.4
Length of service	Less than a year	19	20.7
	1 to 5 years	43	46.7
	More than 5 years	30	32.6
Occupation	Rank and File	82	89.1
	Middle Management	10	10.9

### **Observation on Green Practices.**

**Resource management.** This indicator has the highest mean of 4.44 which means that the participants "Observed" to choose products that are environmentally friendly, strictly follow policies on resource conservation, and focusing on practices in saving energy. In a related study conducted by Sumaylo (2016), he emphasized that embracing green practices is not only a cost-saving undertaking, but also a wise utilization of the depleting resources and exhausts the tradition of reusing, recycling, and reducing.

**Facility usage.** This indicator has the second highest mean of 4.38 which means that the participants "Observed" the proper ways of using the school Facility and amenities to save resources and for the protection of the environment. The area of sustainability relates to incorporating sustainability in operations by providing beyond the attractive physical features and elegant atmosphere but sustainability can be used as an asset to improve the loyalty of the customers (Shanti, 2016).

**Implementation and Monitoring.** It has the lowest mean of 3.98 which means that there is a need to improve management support in green practices by providing incentives to those employees and students who comply with their green practice policies. The institution must have a structured monitoring strategy on green practices and sets the penalty for those who will not comply with the implemented rules. Delmas & Pekovic (2013) pointed out that greener firms are associated with higher labor productivity. It enhances a firm's reputation, which leads to a positive impact on employee work attitudes and contributes to improved labor productivity.

**Waste management.** It has the second lowest mean of 4.02 which indicates that employees, though, are observed practicing, however, are not strictly complying with proper waste management, such as segregation of biodegradable from non-biodegradable, recycling resources for alternative utilization, and selling of non-biodegradable wastes.

Indicator Mean Interpretation Rank Waste Management 4.0239 Observed 6 2 Facility Usage 4.3768 Observed 4.1391 4 **Purchasing Policy** Observed **Environmental Practices** 4.0848 Observed 5 4.4435 Observed 1 Resource Management Stakeholder Support 4.2152 Observed 3 3.9761 Observed 7 Implementation and Monitoring

**Table 2: Observation on Green Practices** 

Interpretation:  $1.00-1.49 = Not \ observed$ ;  $1.50-2.49 = Sometimes \ observed$ ; 2.50-3.49 = Neutral; 3.50-4.49 = Observed;  $4.50-5.00 = Always \ observed$ 

# Observation of the participants in the Green Practices according to demographic profile

Difference in the observation of the participants of the green practices according to age. "Waste Management," "Facility Usage," "Purchasing Policy," "Environmental Practices," "Resource Management," "Stakeholder Support," and "Implementation and Monitoring" showed that the computed significant values are greater than the level of significance of 0.05, thus the null hypothesis is accepted. It is concluded that "age" does not affect the observation of the participants on green practices at LPU Cavite.

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Table 3: Difference in the observation of the participants on the green practices according to age

Indicator	Mean Square	F	Sig.	Decision on Ho	Interpretation
Waste Management	.694 .933 .574 .581	1.194 1.607 .988	.317	Accept	Not significant
Facility Usage	.297 .867 .012 .377	.789 2.301 .033	.503	Accept	Not significant
Purchasing Policy	.729 .872 .658 .476	1.532 1.833 1.382	.212	Accept	Not significant
Environmental Practices	1.058 2.163 .506 .605	1.749 3.574 .837	.163	Accept	Not significant
Resource Management	.161 .198 .143 .320	.504 .620 .446	.681	Accept	Not significant
Stakeholder Support	.410 1.086 .071 .424	.965 2.558 .168	.413	Accept	Not significant
Implementation and Mentoring	.380 1.138 .000 .662	.573 1.719 .000	.634	Accept	Not significant

The difference in the observation of the participants of the green practices according to gender. In terms of "Waste Management," Facility usage," "Purchasing Policy," "Environmental Practices," "Resource Management," and "Implementation and Monitoring" the computed significant values are greater than the level of significance of 0.05, thus, the null hypothesis is accepted. While, in terms of "Stakeholder Support," the significant value is .017 which is less than the level of significance of 0.05, thus, the null hypothesis is rejected. It is concluded that gender, specifically females are more conscious in observing green practices in relation to supporting the internal and external stakeholders.

Table 4: Difference in the observation of the participants on the green practices according to gender

Indicator	Mean Square	F	Sig.	Decision on Ho	Interpretation
Waste	.055	.093	.762	Accept	Not significant
Management	.590				
Facility	1.241	3.405	.068	Accept	Not significant
Usage	.365				
Purchasing	.006	.012	.914	Accept	Not significant
Policy	.489				
Environmental	.202	.324	.571	Accept	Not significant
Practices	.625				
Resource	.917	2.980	.088	Accept	Not significant
Management	.308				
Stakeholder	2.378	5.913	.017	Reject	Significant
Support	.402			-	
Implementation and	.563	.861	.356	Accept	Not significant
Mentoring	.654				

The difference in the Observation of the Participants of the Green Practices according to Marital Status. For the "Waste Management," "Facility Usage," "Purchasing Policy," "Environmental Practices," "Resource Management," "Stakeholder Support," and Implementation and Monitoring" the computed significant values are greater than the level of

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significance of 0.05, thus the null hypothesis is accepted. It is concluded that there is no significant difference in the observation of the participants on green practices at LPU Cavite when grouped according to "marital status."

Table 5: Difference in the Observation of the Participants on the Green Practices according to Marital Status

Indicator	Mean Square	F	Sig.	Decision on Ho	Interpretation	
Waste	.271	.461	.499	Accept	Not significant	
Management	.588	.401	.477	Ассері	Not significant	
Facility	.702	1.894	.172	Accept	Not significant	
Usage	.371	1.054	.172	Ассері	Not significant	
Purchasing	.394	.811	.370	Aggent	Not significant	
Policy	.485	.011	.370	Accept	Not significant	
Environmental	.074	.119	.731	Aggent	Not significant	
Practices	.626	.119	./31	Accept	Not significant	
Resource	.825	2.670	.106	Aggent	Not significant	
Management	.309	2.070	.100	Accept	Not significant	
Stakeholder	.516	1.221	.272	Aggant	Not significant	
Support	.423	1.221	.212	Accept	Not significant	
Implementation and	.039	.059	.809	Againt	Not significant	
Mentoring	.660	.039	.009	Accept	Not significant	

The difference in the observation of the participants on the green practices when grouped according to educational attainment. For the "Waste Management," "Facility Usage," "Purchasing Policy," "Environmental Practices," "Resource Management," "Stakeholder Support," and Implementation and Monitoring" the computed significant values are greater than the level of significance of 0.05, thus the null hypothesis is accepted. Seemingly, most of the participants were college graduates who did not make any significant difference in their observation of green practices at LPU Cavite when grouped according to "educational attainment."

Table 6: Difference in the observation of the participants on the green practices when grouped according to educational attainment

Indicator	Mean Square	F	Sig.	Decision on Ho	Interpretation
Waste Management	.190 .173 .198 .598	.317 .289 .331	.813	Accept	Not significant
Facility Usage	.158 .231 .122 .382	.415 .607 .319	.743	Accept	Not significant
Purchasing Policy	.645 1.128 .404 .479	1.348 2.357 .843	.264	Accept	Not significant
Environmental Practices	.700 .000 1.049 .617	1.133 .000 1.700	.340	Accept	Not significant
Resource Management	.214 .204 .220 .318	.674 .640 .691	.570	Accept	Not significant
Stakeholder Support	.253 .148 .305 .430	.588 .345 .709	.625	Accept	Not significant
Implementation and Mentoring	.361 .354 .365 .663	.545 .534 .550	.653	Accept	Not significant

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The difference in the observation of the participants on the green practices, according to employment status. For the "Waste Management," "Facility Usage," "Purchasing Policy," "Environmental Practices," "Resource Management," "Stakeholder Support," and Implementation and Monitoring" the computed significant values are greater than the level of significance of 0.05, thus the null hypothesis is accepted. Evidently, being a regular or contractual employee does not affect the observation of the participants on green practices at LPU Cavite when grouped according to "employment status".

Table 7: Difference in the observation of the participants on the green practices according to employment status

Indicator	Mean Square	F	Sig.	Decision on Ho	Interpretation
Waste	.564	.965	.329	Accept	Not significant
Management	.585				
Facility	.140	.371	.544	Accept	Not significant
Usage	.377				
Purchasing	.160	.327	.569	Accept	Not significant
Policy	.488				
Environmental	.595	.959	.330	Accept	Not significant
Practices	.620				
Resource	.391	1.248	.267	Accept	Not significant
Management	.314				
Stakeholder	.391	1.869	.175	Accept	Not significant
Support	.314				
Implementation and	.859	1.321	.254	Accept	Not significant
Mentoring	.651				

The difference in the observation of the participants on the green practices, according to length of service. For the "Waste Management," "Facility Usage," "Purchasing Policy," "Environmental Practices," "Resource Management," "Stakeholder Support," and Implementation and Monitoring" the computed significant values are greater than the level of significance of 0.05, thus the null hypothesis is accepted. It is concluded that there is no significant difference in the observation of the participants of green practices at LPU Cavite when grouped according to "length of service."

Table 8: Difference in the observation of the participants on the green practices according to length of service

Indicator	Mean Square	F	Sig.	Decision on Ho	Interpretation
Waste Management	.095 .157 .034 .595	.160 .264 .056	.852	Accept	Not significant
Facility Usage	.437 .049 .825 .373	1.172 .130 2.214	.314	Accept	Not significant
Purchasing Policy	.010 .006 .014 .495	.020 .012 .028	.980	Accept	Not significant
Environmental Practices	.442 .674 .210 .624	.708 1.079 .336	.495	Accept	Not significant
Resource Management	.277 .062 .492 .315	.879 .197 1.560	.419	Accept	Not significant
Stakeholder Support	.411 .412 .409 .424	.968 .971 .964	.384	Accept	Not significant
Implementation and Mentoring	.261 .149 .372 .662	.394 .225 .563	.676	Accept	Not significant

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The difference in the observation of the participants on the green practices according to occupation. For the "Waste Management," "Facility Usage," "Purchasing Policy," "Environmental Practices," "Resource Management," "Stakeholder Support," and Implementation and Monitoring" the computed significant values are greater than the level of significance of 0.05, thus the null hypothesis is accepted. Employees whether in middle management or rank and file, do not significantly affect the observation on green practices at LPU Cavite when grouped according to "occupation."

Table 9: Difference in the observation of the participants on the green practices according to occupation

Indicator	Mean Square	F	Sig.	Decision on Ho	Interpretation	
Waste	1.423	2.473	.119	Accept	Not significant	
Management	.575	2.473	.119	Ассері	Not significant	
Facility	.036	.095	.759	Aggant	Not significant	
Usage	.378	.093	.139	Accept	Not significant	
Purchasing	.885	1.845	.178	Aggent	Not significant	
Policy	.480	1.843	.178	Accept	Not significant	
Environmental	1.580	2.592	.111	Aggent	Not significant	
Practices	.609	2.392	.111	Accept	Not significant	
Resource	.120	.379	.540	Aggent	Not significant	
Management	.317	.379	.340	Accept	Not significant	
Stakeholder	.102	220	(27	A	Natainaifiant	
Support	.428	.238	.627	Accept	Not significant	
Implementation and	.301	450	.500	Againt	Not significant	
Mentoring	.657	.459	.500	Accept	Not significant	

Significant relationship between the Demographic Profile and Green Practices

Age and Green Practices. There is no significant relationship between the indicator "Age" of the "demographic characteristic" and each of the indicators of "green practices," namely "Waste Management," "Facility Usage," "Purchasing Policy," "Environmental Practices," "Resource Management," "Stakeholder Support," and "Implementation and Monitoring".

**Gender and Green Practices.** Similarly, there is no significant relationship between the indicator "Gender" of the "demographic characteristic" and each of the indicators of "green practices," namely "Waste Management," "Facility Usage," "Purchasing Policy," "Environmental Practices," "Resource Management," "Stakeholder Support," and "Implementation and Monitoring".

Marital Status and Green Practices. There is no significant relationship between the indicator "Marital Status" of the "demographic characteristic" and each of the indicators of "green practices," namely "Waste Management," "Facility Usage," "Purchasing Policy," "Environmental Practices," "Resource Management," "Stakeholder Support," and "Implementation and Monitoring".

**Educational Attainment and Green Practices.** There is no significant relationship between the indicator "Educational Attainment" of the "demographic characteristic" and each of the indicators of "green practices," namely "Waste Management," "Facility Usage," "Purchasing Policy," "Environmental Practices," "Resource Management," "Stakeholder Support," and "Implementation and Monitoring".

**Employment Status and Green Practices.** There is no significant relationship between the indicator "Employment Status" of the "demographic characteristic" and each of the indicators of "green practices," namely "Waste Management," "Facility Usage," "Purchasing Policy," "Environmental Practices," "Resource Management," "Stakeholder Support," and "Implementation and Monitoring".

Length of Service and Green Practices. There is no significant relationship between the indicator "Length of Service" of the "demographic characteristic" and each of the indicators of "green practices," namely "Waste Management," "Facility Usage," "Purchasing Policy," "Environmental Practices," "Stakeholder Support," and "Implementation and Monitoring" except for "Resource Management" that significant relationship exists. Employees staying longer to LPU Cavite relatively are more involved in practicing sustainability in relation to resource management.

Occupation and Green Practices. There is no significant relationship between the indicator "Occupation" of the "demographic characteristic" and each of the indicators of "green practices," namely "Waste Management," "Purchasing Policy," "Environmental Practices," "Resource Management," "Stakeholder Support," and "Implementation and

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Monitoring." However, there is a significant relationship between the indicator "Occupation" of the demographic characteristic" and "Facility Usage". Rank and file employees evidently are more exposed to the position of taking care of the Facility usage rather than middle managers.

Table 10: Relationship between demographic characteristics and green practices

Demographic Characteristic	Green Practices	Value	Df	Asymp Sig.	Decision on Ho	Interpretation
	Waste Management	32.993a	42	.839	Accept	Not significant
-	Facility Usage	18.303a	21	.630	Accept	Not significant
	Purchasing Policy	40.260a	36	.287	Accept	Not significant
Age	Environmental Practices	40.467a	42	.538	Accept	Not significant
8.	Resource Management	30.506a	33	.592	Accept	Not significant
-	Stakeholder Support	42.450a	36	.213	Accept	Not significant
-	Implementation and Monitoring	42.837a	48	.684	Accept	Not significant
	Waste Management	11.773a	14	.625	Accept	Not significant
-	Facility Usage	8.285a	7	.308	Accept	Not significant
-	Purchasing Policy	9.626a	12	.649	Accept	Not significant
	Environmental Practices	10.786a	14	.703	Accept	Not significant
Gender	Resource Management	12.354a	11	.338	Accept	Not significant
-	Stakeholder Support	16.924a	12	.152	Accept	Not significant
	Implementation and monitoring	20.456a	16	.200	Accept	Not significant
	Waste Management	12.580a	14	.560	Accept	Not significant
	Facility Usage	4.196a	7	.757	Accept	Not significant
	Purchasing Policy	6.097a	12	.911	Accept	Not significant
Marital Status	Environmental Practices	14.375a	14	.422	Accept	Not significant
	Resource Management	8.035a	11	.710	Accept	Not significant
-	Stakeholder Support	9.165a	12	.689	Accept	Not significant
-	Implementation and Monitoring	16.356a	16	.428	Accept	Not significant
	Waste Management	29.913a	42	.919	Accept	Not significant
-	Facility Usage	22.355a	21	.379	Accept	Not significant
-	Purchasing Policy	39.753a	36	.306	Accept	Not significant
Educational	Environmental Practices	34.949a	42	.771	Accept	Not significant
Attainment	Resource Management	32.929a	33	.471	Accept	Not significant
-	Stakeholder Support	28.450a	36	.811	Accept	Not significant
-	Implementation and Monitoring	46.487a	48	.535	Accept	Not significant
	Waste Management	14.180a	14	.436	Accept	Not significant
-	Facility Usage	8.066a	7	.327	Accept	Not significant
-	Purchasing Policy	9.894a	12	.625	Accept	Not significant
Employment	Environmental Practices	22.195a	14	.075	Accept	Not significant
Status	Resource Management	11.295a	11	.419	Accept	Not significant
-	Stakeholder Support	10.297a	12	.590	Accept	Not significant
-	Implementation and Monitoring	17.474a	16	.356	Accept	Not significant
	Waste Management	24.457a	28	.657	Accept	Not significant
-	Facility Usage	17.257a	14	.243	Accept	Not significant
-	Purchasing Policy	18.778a	24	.764	Accept	Not significant
Length of	Environmental Practices	24.545a	28	.652		Not significant
Service	Resource Management	36.310a	22	.032	Accept	Significant
-	Stakeholder Support	23.467a	24	.028	Reject	Not significant
-	Implementation and Monitoring	29.488a	32	.594	Accept	Not significant
					Accept	
-	Waste Management	14.769a	14	.394	Accept	Not significant
-	Facility Usage	18.963a	7	.008	Reject	Significant
0	Purchasing Policy	16.740a	12	.160	Accept	Not significant
Occupation	Environmental Practices	10.559a	14	.720	Accept	Not significant
	Resource Management	17.819a	11	.086	Accept	Not significant
	Stakeholder Support	14.854a	12	.249	Accept	Not significant
	Implementation and Monitoring	21.463a	16	.161	Accept	Not significant

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**Table 11: Proposed operational guidelines** 

Specific Objectives	Activities	Time Frame	Implementing Body	Results
To help protect the environment by segregating biodegradable from non- biodegradable	<ul> <li>To provide separate trash bins for biodegradable and non- biodegradable in all classrooms and offices</li> <li>To provide activities that will highly promote the segregation of waste disposal</li> </ul>	All year round	Top management and Department Heads	Efficient and effective waste disposal
To help protect the environment by recycling resources for alternative utilization	To facilitate programs that will encourage recycling waste to reduce costs	All year round	Top management and Department Heads	Cost reduction
To provide incentives to those employees and students who comply to green practice policies	<ul><li> Employee Recognition</li><li> Special award for students</li></ul>	All year round	Top management and Department Heads	Active participation
To have a structured monitoring strategy	<ul> <li>Evaluation</li> <li>Departmental Monthly Operational Report</li> </ul>	Monthly	Top management and Department Heads	Strict implementation
To encourage stakeholders to support green practices	<ul> <li>Orientation/seminar for green practices</li> <li>Programs that will support green practices implementation</li> </ul>	All year round	Top management and Department Heads	Sustainability of Green Practices

# IV. CONCLUSION

Based on the findings of the study, the following conclusions are presented:

- 1. Most of the non-teaching employees of LPU Cavite ages ranged from 26 to 30 years old. The majority were females, college graduates, stayed in LPU Cavite between 1 to 5 years and rank and file.
- 2. Non-teaching staffs apparently were more involved in daily resource management routine, including conservation, using environment-friendly products, and recycling. However, strict monitoring and implementation of these activities were least observed by employees that could affect the environmental initiatives of LPU Cavite.
- 3. Females were more conscious and supportive in implementing green practices for the protection of the environment.
- 4. Employees who stayed more than a year in the company were more committed to practicing sustainability in relation to resource management like saving energy and recycling waste.
- 5. Among LPU Cavite non-teaching employees, rank and file staffs are more observant in applying green practices in using Facility and resources efficiently.

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