

Unibersidad ng Pilipinas

Mabuhay!

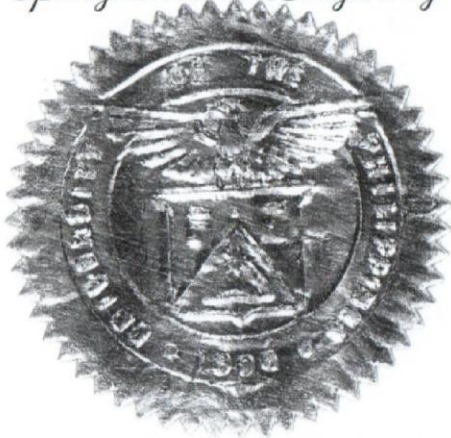
*Alinsunod sa batas ng Republika ng Pilipinas at batay sa rekomendasyon ng Kolehiyo
at pagpapatibay ng Konseho ng Unibersidad, ipinaghaloob ng Lupon ng mga Rehente kay*

Ronard Gonzaga Paña

na nakatupad sa mga itinakdang pangangailangan ng Kurso, ang titulong

Master of Science in Mechanical Engineering

*kasama ang lahat ng mga karapatan, karangalan at pribilehiyo, gayundin ang mga obligasyon at pananagutang kaakibat nito.
Ipinaghaloob sa Lungsod ng Quezon, Pilipinas, ngayong ika-26 ng Hulyo ng taong dalawang libo't dalawampu.*



Daniilo L. Concepcion
DANILO L. CONCEPCION

Pangulo ng Unibersidad

Roberto M.J. Lara
ROBERTO M.J. LARA
Kalihim ng Unibersidad

Fidel R. Nemenzo
FIDEL R. NEMENZO

Kanselor ng U.P. Diliman

Ferdinand G. Manegdeg
FERDINAND G. MANEGDEG
Dehano ng Kolehiyo ng Inhenyeriya

University of the Philippines
COLLEGE OF ENGINEERING
Certified True/Xerox Copy



Forly Ann S. Bustinza
Jan 2 10/25/21



OFFICE OF THE UNIVERSITY REGISTRAR
OFFICIAL TRANSCRIPT OF RECORDS

Entrance Data:

Date/Semester admitted 1st Semester, 2018-2019
Category College Graduate
Diploma/Title/Degree B.S. Mechanical Engineering
High School/College Bohol Island State University
Date Graduated/Last attended April 1, 2014
NCEE Rating Year Taken
S.O. No. Date

Name PAÑA, RONARD GONZAGA
Student No. 2018-21520 Sex Assigned at Birth Male
Date & Place of Birth March 21, 1993; Tagbilaran City, Bohol
Father's Name Leonardo Paña
Mother's Name Roquina Gonzaga
Degree/Title/Course:
MASTER OF SCIENCE IN MECHANICAL ENGINEERING,
July 26, 2020

COLLEGIATE RECORD		GRADES		CREDITS
COURSE NUMBER	COURSE TITLE	FINAL	Re-exam	
			Completion	
	<p>Records from the University of the Philippines Diliman are on page 2.</p> <p>Entrance credentials show graduation from Bohol Island State University with the degree of Bachelor of Science in Mechanical Engineering on April 1, 2014.</p> <p>Certified copies of the official transcript of records from the above school are attached as pages 5, 6, 7, 8, and 9.</p>			

Continued on page 2. Transcript guide on page 3 and page 4.

Initial Checker depacis Date 05/24/2021
Final Checker ebcandelario Date 05/24/2021
Printed By rogorgod Date 05/24/2021
Date Issued MAY 28 2021

MARIA VANESSA P. LUSUNG-OYZON, Ph.D
University Registrar



OFFICE OF THE UNIVERSITY REGISTRAR
OFFICIAL TRANSCRIPT OF RECORDS

Name **PAÑA, RONARD GONZAGA**

Student No. **2018-21520**

COLLEGIATE RECORD		GRADES		CREDITS
COURSE NUMBER	COURSE TITLE	FINAL	Re-exam	
			Completion	
COLLEGE OF ENGINEERING (Master's Program)				
1st Semester, 2018-2019				
ES 201	Advanced Mathematical Methods in Engineering I	1.25		3
ES 204	Numerical Methods in Engineering	1		3
ME 267	Advanced Thermodynamics I	1.25		3
ME 298	Special Problems	1.25		3
2nd Semester, 2018-2019				
EgyE 225	Nuclear Energy	1.25		3
EgyE 297	Special Topics: Sustainable Energy Development	2.25		3
ME 226	Gas Dynamics	1		3
ME 260	Advanced Heat Transfer I	1.5		3
Midyear, 2019				
Residence				
1st Semester, 2019-2020				
IE 298	Special Problems	1		3
ME 300	Thesis	Pass		3
2nd Semester, 2019-2020				
ME 300	Thesis	Pass		3
Thesis Title: "Analytical Modelling of a Vacuum Cooling System with Membrane Humidification"				
Graduated with the degree of MASTER OF SCIENCE IN MECHANICAL ENGINEERING on July 26, 2020				
End of UP Diliman Transcript. Cleared: May 12, 2021				

Initial Checker depacis Date 05/24/2021
Final Checker ebcandelario Date 05/24/2021
Printed By rogorgod Date 05/24/2021
Date Issued **MAY 28 2021**

MARIA VANESSA P. LUSUNG-OYZON, Ph.D.
University Registrar



UNIVERSITY OF THE PHILIPPINES DILIMAN TRANSCRIPT GUIDE

Student records are confidential and information is released only at the request of the student or of appropriate institutions [provided an authority to release is issued by the student]. "Partial" transcripts are not issued. Official transcripts of records obtained from other institutions and which have been submitted to the University for admission and/or transfer of credit become part of the student's permanent record and are issued as certified true copies with the UP transcript.

Application for transcript of records should be accompanied by a student clearance (UP Form 241). University clearance should be applied for immediately after the last semester/trimester/term of enrolment.

Transcript Entries

Courses taken in UP Diliman, cross-enrolled in other Constituent Units (CUs); Advance Placement Examination (APE), Advance Credits Awarded, and Proficiency Examination in Physical Education (PEPE) appear in the Transcript of Records.

Advance Placement Examination (APE)

New freshmen who qualify for and pass the prescribed advance placement examination in basic courses in the freshman year such as the languages, College Algebra, Plane Trigonometry, and others within one (1) year of their enrolment in the University, shall be given credit for the corresponding subjects in their academic program provided that this privilege is not given for more than six (6) units in any one discipline. These examinations are usually scheduled two (2) weeks before the advanced freshmen registration every first semester.

Holders of the International Baccalaureate (IB) diploma/certificate may apply for advance credit for certain subjects they have taken. However, the total credit that may be granted, including automatic credit, shall not exceed 15 units per subject area.

Proficiency Examination in Physical Education (PEPE)

Proficiency examinations (or credit by examination) in PE courses are given to enable students who are already skillful in one (1) or more sports to acquire advanced units in PE. Any student who passes a PEPE shall be given credit for the corresponding PE course. Students may take proficiency examinations in one (1) or more courses to meet the PE requirements. The examination is given twice a year before the start of every semester.

Validation for Advanced Credits

A transfer student admitted with less than 66 units of work must validate all the courses he/she is applying for advanced credits at the rate of 18 units a semester within a period not exceeding three (3) semesters from the date of admission.

Academic Calendar

The Academic Calendar is divided into two (2) semesters of at least 16 weeks each, exclusive of registration and final examination period. Each semester consists of at least 100 class days. A summer session of 6 weeks follows the second semester. Class work in the summer session is equivalent to class work in one (1) semester.

Effective Academic Year 2014-2015, the first semester begins in August, the second semester in January, and the midyear term in June. Prior to this, the first semester begins in June, the second semester in November, and the summer term in April.

All academic units in UP Diliman operate under the semestral system, except for the Master of Business Administration and the Master of Science in Finance programs of the Cesar E.A. Virata School of Business (CEAVSB), the Master of Management of the UP Extension Program in Pampanga/Olongapo, and the Professional Masters in Tropical Marine Ecosystems Management program of the College of Science which are under the trimestral system.

Special Order Number

The University of the Philippines, the National University by virtue of R.A. 9500, operates under a University Charter. Graduation of students does not require confirmation by the Commission on Higher Education (CHED), thus, the University does not issue a Special Order No. to its graduates.

Authenticity

The copy of the Transcript of Records is an exact reproduction of the transcript on file with the Office of the University Registrar and is considered as a copy of the original when it bears the dry seal of the University and the original signature of the University Registrar or a Security Signature Stamper. The use of the stamper was approved by the Board of Regents at its 1303rd meeting held last 26 November 2014 and implemented effective January 2015.

Any erasure or alteration made on this copy renders the whole transcript spurious and invalid.

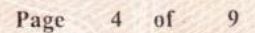
Credit Unit

The unit is the semester hour. Most classes taught at the University meet 3 hours a week; these classes carry 48 clock hours of instruction and 3 units of credit.

Each unit of credit is at least 16 semester-hours of instruction in the form of lecture, discussion, seminar, tutorial, recitation, or any combination of these forms. Laboratory work, field work, or related student activity is credited one (1) unit for at least thirty-two (32) semester hours.

As of August, 2019

MARIA VANESSA P. LUSUNG-OYZON, Ph.D.
University Registrar





Republic of the Philippines
BOHOL ISLAND STATE UNIVERSITY
Main Campus
Tagbilaran City

OFFICE OF THE REGISTRAR

OFFICIAL TRANSCRIPT OF RECORDS

Name PAÑA, RONARD GONZAGA
Address Booy Disrtrict, Tagbilaran City, Bohol

Birth Date March 21, 1993
Sex Male

RECORDS OF PRELIMINARY EDUCATION

	Name of School	School Year
Elementary	Dorol Elementary School	2004-2005
Secondary	Dr. Cecilio Putong National High School	2008-2009
Course	Bachelor of Science in Mechanical Engineering	

COLLEGIATE RECORD

SCHOOL TERM & COURSE NO.		DESCRIPTIVE TITLE	FINAL RATING	COMPLETION RATING	UNITS
1st Semester, 2010-2011 BOHOL ISLAND STATE UNIVERSITY MAIN CAMPUS TAGBILARAN CITY					
Comp	1a	Computer Software Application	1.6		3
Engl	3	Speech Communication	1.8		3
Hum	1	Introduction to Arts	1.3		3
Math	4	Differential Calculus	1.3		4
MET	3	Machine Shop Theory and Practice (Basic and Adv.)	1.8		3
PE	3	Individual/Dual Sports/Games	1.3		2
Phys	1	College Physics I (Mechanics & Heat)	1.2		4
Soc Sci	1	Basic Economics with Taxation & Land Reform	1.4		3
2nd Semester, 2010-2011 BOHOL ISLAND STATE UNIVERSITY MAIN CAMPUS TAGBILARAN CITY					
Comp	2	Basic Computer Aided Design	1.8		3
ES	221	Introduction to Environmental Engineering	1.4		3
Hum	2	Literatures of the Philippines	2.4		3
Math	5	Integral Calculus	2.1		4
MET	4	Automotive Technology (Diesel and Gasoline Engine)	1.3		3
PE	4	Team Sports/Games	1.2		2
Phys	2	College Physics 2(Waves, Sound, Light, Electricity and Magnetism)	2.2		4
Soc Sci	2	Society and Culture with Family Planning	1.1		3

XX

Grading System:

Undergrad

1.0 - 99%-100% 1.3 - 93%-94% 1.6 - 89% 1.9 - 86% 2.2 - 83% 2.5 - 80% 2.8 - 77% 5.0 - Below 75%
1.1 - 97% - 98% 1.4 - 91%-92% 1.7 - 88% 2.0 - 85% 2.3 - 82% 2.6 - 79% 2.9 - 76% NA - Never Attended
1.2 - 95% - 96% 1.5 - 90% 1.8 - 87% 2.1 - 84% 2.4 - 81% 2.7 - 78% 3.0 - 75% DR - Dropped

Advanced Studies

1.0 - 99%-100% 1.3 - 93%-94% 1.6 - 87%-88% 1.9 - 80%-82% NA - Not Attending
1.1 - 97% - 98% 1.4 - 91%-92% 1.7 - 85%-86% 2.0 - Below 80% W - Withdrawn
1.2 - 95% - 96% 1.5 - 89%-90% 1.8 - 83%-84% NG - No Rating DR - Dropped

Credits: One college unit of credit is one hour of lecture or recitation each week for one complete semester.

In shop and drawing courses, every three hours of work per week for one semester are equivalent to one semester unit or credit.

Copy For: UP Diliman
Quezon City 1101 P.O Box 161

Date: November 10, 2018

Prepared by: MARK ANTHONY P. APARRE

Checked by: ROZENE MAE T. BULAWIN

Not Valid Without
University Seal

ADELYN C. IBARRA
Registrar



OFFICE OF THE REGISTRAR

OFFICIAL TRANSCRIPT OF RECORDS

Name PANA, RONARD GONZAGA

Address Booy Disrtrict, Tagbilaran City, Bohol

Birth Date March 21, 1993

Sex Male

RECORDS OF PRELIMINARY EDUCATION

	Name of School	School Year
Elementary	Dorol Elementary School	2004-2005
Secondary	Dr. Cecilio Putong National High School	2008-2009
Course	Bachelor of Science in Mechanical Engineering	

COLLEGIATE RECORD

SCHOOL TERM & COURSE NO.		DESCRIPTIVE TITLE	FINAL	COMPLETION	UNITS
			RATING	RATING	
1st Semester, 2012-2013		BOHOL ISLAND STATE UNIVERSITY MAIN CAMPUS TAGBILARAN CITY			
ES	412	DC and AC Machinery	1.7		3
ELECTIVE	1	ME Elective 1 (Pneumatics)	2.1		3
ES	2	Safety Management	1.4		1
Hum	3	Logic	1.4		3
Math	7	Advanced Engineering Math (Laplace Transform)	2.2		3
ME	411	Mechanical Engineering Laboratory 1	2.2		2
ME	412	Thermodynamics 2	1.8		3
ME	413	Combustion Engineering	1.8		3
ME	424	Machine Design 1	2.4		4
2nd Semester, 2012-2013		BOHOL ISLAND STATE UNIVERSITY MAIN CAMPUS TAGBILARAN CITY			
ME	425	Engineering Management & Safety	1.8		3
ELECTIVE	2	Industrial Automation and Control	1.7		3
ME	421	Heat Transfer	1.8		2
ME	422	Mechanical Engineering Laboratory 2	1.7		2
ME	423	Refrigeration & Air-conditioning System	2.3		3
ME	515	Machine Design 2	3.0		4
ME	415	Safety Engineering	1.8		2
Mech	3	Fluid Mechanics	3.0		4
Research	1	Methods of Research for ME	2.4		3
Summer 2013,		BOHOL ISLAND STATE UNIVERSITY MAIN CAMPUS TAGBILARAN CITY			
ME	500	Mechanical Engineering On-the-Job Training	1.0		5

XX

Grading System:

Undergrad

1.0 - 99%-100%	1.3 - 93%-94%	1.6 - 89%	1.9 - 86%	2.2 - 83%	2.5 - 80%	2.8 - 77%	5.0 - Below 75%
1.1 - 97% - 98%	1.4 - 91%-92%	1.7 - 88%	2.0 - 85%	2.3 - 82%	2.6 - 79%	2.9 - 76%	NA - Never Attended
1.2 - 95% - 96%	1.5 - 90%	1.8 - 87%	2.1 - 84%	2.4 - 81%	2.7 - 78%	3.0 - 75%	DR - Dropped

Advanced Studies

1.0 - 99%-100%	1.3 - 93%-94%	1.6 - 87%-88%	1.9 - 80%-82%	NA - Not Attending
1.1 - 97% - 98%	1.4 - 91%-92%	1.7 - 85%-86%	2.0 - Below 80%	W - Withdrawn
1.2 - 95% - 96%	1.5 - 89%-90%	1.8 - 83%-84%	NG - No Rating	DR - Dropped

Credits: One college unit of credit is one hour of lecture or recitation each week for one complete semester.

In shop and drawing courses, every three hours of work per week for one semester are equivalent to one semester unit or credit.

Copy For: UP Diliman
Quezon City 1101 P.O Box 161

Date: November 10, 2018

Prepared by: MARK ANTHONY P. APARRE

Checked by: ROZENE MAE T. BULAWIN

Not Valid Without
University Seal

ADELYN C. IBARRA
Registrar

Page 4 of 5 pages

CERTIFIED COPY

MARIA VANESSA P. LUSUNG-OYON, PhD
University Registrar
University of the Philippines Diliman

