

# Unibersidad ng Pilipinas

*Diliman*

*Mabuhay!*

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

***Hannah Rissah E. Forio***

*na nakatupad sa mga pangangailangan ng itinakdang kurso, ang titulong*

***Master of Science (Physics)***

CERTIFIED TRUE COPY OF THE ORIGINAL

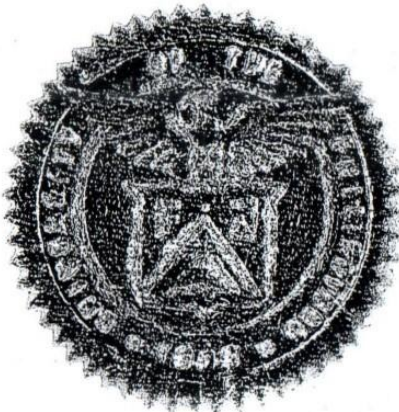


**MA. THERESA T. PAYONGAYONG, PhD**  
University Registrar

*kasama ang lahat ng mga karapatan, karangalan at pribilehiyo, gayundin ang mga obligasyon at pananagutan kaugnay nito.*


*Bilang patunay, nakatatak dito ang sagisag ng Unibersidad at ang mga  
lagda ng Pangulo, ng Chanselor, ng Kalihim ng Unibersidad at ng Dekano.*


*Ipinagkaloob sa Lungsod ng Quezon, Pilipinas, sa ika-2 ng Nobyembre ng  
taong Dalawang libo't labing-isa.*



  
**ALFREDO E. PASCUAL**  
*Pangulo*

  
**CAESAR A. SALOMA**  
*Chanselor*

  
**LILIAN A. DE LAS LAGAS**  
*Kalihim ng Unibersidad*

  
**JOSE MARIA P. BALMACEDA**  
*Dekano ng College of Science*





# UNIVERSITY OF SAN CARLOS

## Office of the Registrar

Nasipit, Talamban, 6000 Cebu City, Philippines

Tel. No. (63 32) 230-0100 local 115, 112, 138

Email Address: registrar@usc.edu.ph

ACCREDITED Charter Member Philippine  
Accrediting Association of  
Schools, Colleges and  
Universities (PAASCU)

CERTIFIED ISO 9001:2015

SCHOOL CODE: 7078

## OFFICIAL TRANSCRIPT OF RECORDS

Page 1

### PERSONAL DATA

Student Name : **ABAD , HANNAH RISSAH FORIO**

ID Number : **18101237**

Birthdate : **APRIL 07, 1986**

Birthplace : **BAYBAY, LEYTE**

Gender : **FEMALE**

Religion : **CHRISTIAN**

Citizenship : **FILIPINO**

Parent/Spouse : **ABRAHAM FORIO**

Address : **ZONE 3, CARIDAD, BAYBAY CITY 6521,  
LEYTE, REGION 8 - EASTERN VISAYAS,  
PHILIPPINES**

Contact Number : **09213574690**



### PRELIMINARY EDUCATION

Elementary : **VISCA FOUNDATION ELEMENTARY SCHOOL** Year : **1999**

Secondary : **VISAYAS STATE UNIVERSITY LABORATORY HIGH SCHOOL** Year : **2003**

### GRADING SYSTEM

	GRADE	EQUIVALENT	INDICATION
1.0	A+	100-95%	Excellent
1.1-1.5	A- A-	94-90%	Very Good
1.6-2.5	A- - B-	89-80%	Good
2.6-3.0	C+ -C	79-75%	Fair
5.0	C-	74	Failure
INC	"Incomplete"		
NC	"No Credit"		
W	"Withdrawal with official notice"		
IP	In Progress		
P	Passed		


One collegiate/graduate unit of credit is one hour lecture or recitation each week or total of 18 hours in a semester. Three hours laboratory work, drafting, or a shop work each week or a total of 54 hours a semester as regarded as equivalent also to one unit of credit.

The semestral average grade of a student is computed by multiplying the number of units assigned to a course by the grade earned and the product divided by the total units earned for the semester.

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**JAMES ANTHONY T. TOLEDO**  
University Registrar





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**ENTRANCE ADMISSION : GRADUATED WITH THE DEGREE OF MASTER OF SCIENCE  
(PHYSICS) ON NOVEMBER 02, 2011 AT THE UP DILIMAN.  
SPECIAL ORDER EXEMPTED**

**Student Name : ABAD, HANNAH RISSAH FORIO**

### FIRST SEMESTER 2018-2019 - PHD PHYSICS (REGULAR PROGRAM)

Code	Title	Grade	Credit/s
PHYS 602.1	STANDARD MODEL IN PARTICLE PHYSICS	1.7	3.0
PHYS 605.1	COMPLEX SYSTEMS	1.0	3.0
PHYS 716	QUANTUM TRANSPORT OF OPEN NANOSYSTEMS	1.2	3.0

### SECOND SEMESTER 2018-2019 - PHD PHYSICS (REGULAR PROGRAM)

Code	Title	Grade	Credit/s
PHYS 601.1	METHODS AND APPLICATIONS OF WHITE NOISE ANALYSIS	1.2	3.0
PHYS 713N	EXPERIMENTAL METHODS IN BIOPHYSICS 1 (LECTURE)	1.0	1.0
PHYS 713NL	EXPERIMENTAL METHODS IN BIOPHYSICS 1 (LABORATORY)	1.0	2.0
PHYS 731	FIELD THEORIES OF CONDENSED MATTER PHYSICS: STRONGLY CORRELATED SYSTEMS	1.2	3.0

### SUMMER 2019 - PHD PHYSICS (REGULAR PROGRAM)

Code	Title	Grade	Credit/s
PHYS 721	GENERAL RELATIVITY	1.1	3.0

### FIRST SEMESTER 2019-2020 - PHD PHYSICS (REGULAR PROGRAM)

Code	Title	Grade	Credit/s
PHYS 771	PHYSICS AND PHILOSOPHY	1.1	3.0
PHYS 796	GRADUATE COLLOQUIUM	1.1	1.0
PHYS 799	DISSERTATION COUNSELING	1.1	3.0
PHYS 799L	DISSERTATION LABORATORY	IP	
PHYS RESN	PHYSICS RESEARCH	IP	

### SECOND SEMESTER 2019-2020 - PHD PHYSICS (REGULAR PROGRAM)

Code	Title	Grade	Credit/s
PHYS 797.1	GRADUATE SEMINAR 1	1.1	1.0
PHYS 799	DISSERTATION COUNSELING	IP	
PHYS 799L	DISSERTATION LABORATORY	IP	
PHYS RESN	PHYSICS RESEARCH	IP	

### SUMMER 2020 - PHD PHYSICS (REGULAR PROGRAM)

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Page 3

Student Name : **ABAD, HANNAH RISSAH FORIO**

Code	Title	Grade	Credit/s
PHYS 796.2	GRADUATE COLLOQUIUM 2	P	1.0
PHYS 797.2	GRADUATE SEMINAR 2	1.0	1.0
PHYS RESN	PHYSICS RESEARCH	IP	

### FIRST SEMESTER 2020-2021 - PHD PHYSICS (REGULAR PROGRAM)

Code	Title	Grade	Credit/s
PHYS 799	DISSERTATION COUNSELING	IP	
PHYS 799L	DISSERTATION LABORATORY	IP	
PHYS RESN	PHYSICS RESEARCH	IP	

### SECOND SEMESTER 2020-2021 - PHD PHYSICS (REGULAR PROGRAM)

Code	Title	Grade	Credit/s
PHYS 799	DISSERTATION COUNSELING	IP	
PHYS 799L	DISSERTATION LABORATORY	IP	
PHYS RESN	PHYSICS RESEARCH	IP	

### SECOND SEMESTER 2021-2022 - PHD PHYSICS (REGULAR PROGRAM)

Code	Title	Grade	Credit/s
DISS RES	DISSERTATION COUNSELLING	NG	
PHYS RESN	PHYSICS RESEARCH	NG	

Date Issued : March 08, 2022

Purpose : FOR PROMOTION

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OFFICE OF THE UNIVERSITY REGISTRAR  
OFFICIAL TRANSCRIPT OF RECORDS

Name **FORIO, HANNAH RISSAH ESTEBES**

Student No. 2003-61598 Sex Female

**Date & Place of Birth** April 07, 1986; Baybay, Leyte

Father's Name Abraham Forio

Mother's Name Edna Esteves

Degree/Title/Course:

MASTER OF SCIENCE (Physics), November 02, 2011

**Entrance Data:**

Date/Semester admitted 1st Semester, 2008-2009

Category College Graduate

Diploma/Title/Degree B.S. Applied Physics

High School/College U.P. Los Baños

Date Graduated/Last attended April 28, 2007

NCEE Rating	Year Ta
-------------	---------

S.O. No.: \_\_\_\_\_ Date: \_\_\_\_\_

UNIVERSITY OF SAN CARLOS UNIVERSITY OF SAN CARLOS UNIVERSITY OF SAN CARLOS UNIVERSITY OF SAN CARLOS

COLLEGIATE RECORD		GRADES	
COURSE NUMBER	COURSE TITLE	FINAL	Re-exam Completion
	<b>Records from the University of the Philippines</b> <b>Diliman are on page 2.</b>		
	<b>Entrance credentials show graduation from the University of the Philippines Los Baños with the degree of Bachelor of Science in Applied Physics (Instrumentation) on April 28, 2007.</b>		
	<b>Certified copies of the official transcript of records from the above school are attached as pages 5 and 6.</b>		

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

COPY FOR: UNIVERSITY OF SAN CARLOS

Initial Checker mlvicente Date 11/15/2018

Final Checker      jmbua      Date      11/19/2018

Printed By jeadiz Date 11/27/2018

Date Issued **DEC 06 2018**

MA. THERESA T. PAYONGAYONG, PhD  
University Registrar

UNIVERSITY OF THE PHILIPPINES DILIMAN, Office of the University Registrar, Kalaw Street, UP Campus, Diliman, Quezon City

UNIVERSITY OF SAN CARLOS  
Cebu City, Philippines

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University Registrar





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### OFFICE OF THE UNIVERSITY REGISTRAR OFFICIAL TRANSCRIPT OF RECORDS

Name: **FORIO, HANNAH RISSAH ESTEBES**  
Student No. **2003-61598**

COLLEGIATE RECORD		GRADES		CREDITS
COURSE NUMBER	COURSE TITLE	FINAL	Re-exam Completion	
		COLLEGE OF SCIENCE (Master's Program)		
1st Semester, 2008-2009				
Physics 221	Classical Dynamics I	1.75		3
Physics 231	Classical Electrodynamics I	4		-
2nd Semester, 2008-2009				
Physics 141	Quantum Physics I	Pass		3
Physics 251	Statistical Mechanics I	1.25		3
1st Semester, 2009-2010				
Physics 231	Classical Electrodynamics I	1.25		3
Physics 241	Quantum Mechanics I	2		3
Physics 290	Graduate Colloquium	Pass		1
2nd Semester, 2009-2010				
Physics 232	Classical Electrodynamics II	1		3
Physics 242	Quantum Mechanics II	1.5		3
1st Semester, 2010-2011				
Physics 265	Modern Optics I	1		3
Physics 275	Low-Temperature Physics I	1.75		3
Physics 290	Graduate Colloquium	Pass		1
Physics 296	Graduate Seminar	1		1
2nd Semester, 2010-2011				
Physics 300	MS Thesis	Pass		6
Physics 375	Advanced Low-Temperature Physics	1		3
1st Semester, 2011-2012				
Residence				
Thesis Title: "Condensation Energy and Angle-Resolved Photoemission Spectroscopy Intensity of High Temperature Superconductors Based on the Spin Polaron Formulation"				
Graduated with the degree of MASTER OF SCIENCE (Physics) on November 02, 2011				
End of UP Dilliman Transcript.    Cleared: February 06, 2012				

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Cebu City, Philippines

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MA. THERESA T. PAYONGAYONG, PHD  
University Registrar

UNIVERSITY OF THE PHILIPPINES DILIMAN, Office of the University Registrar, Kalaw Street, UP Campus, Diliman, Quezon City





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## OFFICIAL TRANSCRIPT OF RECORDS



### UNIVERSITY OF THE PHILIPPINES DILIMAN TRANSCRIPT GUIDE

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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 enrollment.

#### 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.

As of October, 2018

#### 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 semester 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

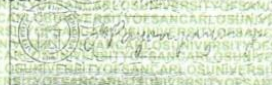
The copy of the Transcript of Records is an exact reproduction of the transcript on file with the Office of the University Registrar and is considered as a copy of the original when it bears the dry seal of the University and the original signature of the University Registrar or a Security Signature Stamper. The use of the stamper was approved by the Board of Regents at its 1303<sup>rd</sup> 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.



MA. THERESA T. PAYONGAYONG, PhD  
University Registrar

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# OFFICIAL TRANSCRIPT OF RECORDS



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UNIVERSITY OF THE PHILIPPINES DILIMAN  
TRANSCRIPT GUIDE

### Grading System

The following grading systems have been adopted:

ACADEMIC YEAR	GRADE							
	Excellent, Marked Excellence	Very Good	Good, Thoroughly Satisfactory	Satisfactory	Passing, Pass+ to Pass	Conditional Failure, Conditional No Credit	Incomplete	Failure Must Repeat, Failure- to Fail
1915-1925	1	1.5	2	2.5	3	4	Inc.	5
1926-1941	1	-	2	-	3	4	Inc.	5
1942-1951	1	1.5	2	2.5	3	4	Inc.	5
1952-1957	1	-	2	-	3	4	Inc.	5
1958-1962	1	-	-	2.5	3	-	Inc.	5
1963-1964*	1	1.5	2	2.5	3	4	Inc.	5
1965-1971	1	1.5	2	2.5	3	4	Inc.	5
1972-1973*	1	1.5	2	2.5	3	4	Inc.	5
1974-1979	1-1.25	1.5-1.75	2-2.25	2.5-2.75	3	4	Inc.	5
1980-1995**	1	1.5	2	2.5	3	4	Inc.	5
1996-2003**	1	1.5	2	2.5	3	4	Inc.	5

\*For graduate courses in the College of Agriculture, Graduate College of Education and Graduate School of Arts and Sciences, grades below "2" shall not carry graduate credit.

\*\*Grades of 1.25, 1.75, 2.25 and 2.75 may also be given but in no case shall they be more detailed than

<sup>1</sup>AY1926-1941 & 1952-1957      <sup>2</sup>AY1942-1951, 1963-1964 & 1972-1973

AY1965-1971 AY1974-1979 AY1980-1986 AY1987-1993 AY1994-1999

**Grade Equivalent**

The equivalent of UP grades in percentages, letter grades and grade points are as follows:

UP Grade	Adjectival Equivalent	Percentage	Letter Grade	Grade Points
1	Excellent	97 - 100	A	4
1.25		94.25	A-	3.625
1.5		91.5	B+	3.25
1.75		88.75	B	2.875
2	Good	86	B-	2.5
2.25		83.25	C+	2.125
2.5		80.5	C	1.75
2.75		77.75	C-	1.375
3	Pass	75	D	1
4	Conditional			
5	Fail	Fail	F	0
Inc.	Incomplete			

### Honorable Dismissal

Honorable Dismissal is voluntary withdrawal from the University. The petition for honorable dismissal is granted to: a student in good standing; upon settlement of accountabilities in the University, and approval by the University Registrar.

A statement that the student has been dropped from the rolls due to poor standing may be added to the honorable dismissal certification.

Honorable dismissal is not issued to a student who has graduated from the University and to a student who was expelled due to disciplinary action.

## Transfer Credentials/COPY FOR:

A Transcript of Records (TOR) with notation "COPY FOR: (name of school)" means that the University has transferred the records of the student to the receiving school.

The University can only issue another copy of the TOR to the student upon submission of a "No Objection Letter" issued by the school where the student is currently enrolled.

**National Service Training Program (NSTP)**

Republic Act 9163 known as the NSTP Act of 2001 mandates State Universities to offer Reserve Officers' Training Corps (ROTC) and its components such as Literacy Training Service (LTS) and Civic Welfare Training Service (CWTS).

Rule III, Section 4(c) of the Implementing Rules and Regulations of R.A. 9163 issued on 13 November 2009 requires completion of a 25-hour common module prior to taking up a particular NSTP component.

All students enrolled in any baccalaureate or in at least two (2) year technical/vocational or associate course are required to complete the equivalent of two (2) semesters of any of the above components as a requisite for graduation.

R.A. 9163 however waived the requirements of ROTC prior to graduation of students who have finished all academic requirements on or before the 2nd Semester AY 2001-2002. Students may be graduated as of 2nd Semester AY 2001-2002 after application for graduation and without the required one-year residence.

one-year residence.

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UNIVERSITY OF THE PHILIPPINES LOS BAÑOS

College, Laguna, Philippines

Office of the University Registrar

## OFFICIAL TRANSCRIPT OF RECORDS

### ADMISSION DATA:

Date admitted: May 12, 2003  
Category: New Freshman  
Degree/Title: High School Graduate  
High School/College: Leyte State University  
Laboratory High School  
Visca, Baybay, Leyte  
Location:  
Date graduated/last attended: March 31, 2003  
NCEE rating: x-x-x Year taken: x-x-x

Name: HANNAH RISSAH ESTEBES FORIO

Student No.: 2003-61598 Sex: Female

Address: Caridad, Baybay, Leyte

Date of Birth: April 7, 1986

Place of Birth: Baybay, Leyte

Father's Name: Abraham P. Fono

Mother's Name: Edna S. Estebe

College/School: Arts and Sciences

Degree/Title: B.S. Applied Physics

Major: Instrumentation

Date graduated: April 28, 2007

### COLLEGIATE RECORDS

COURSE NUMBER	DESCRIPTIVE TITLE OF THE COURSE	FINAL	Re-exam Completion	CREDITS
FIRST SEMESTER, 2003-2004				
MATH 17	Algebra and Trigonometry	2.25		5
HUM 1	Literature, Man and Society	1.00		3
SOSC 2	Social, Economic and Political Thought	2.50		3
SOSC 1	Foundations of Behavioral Sciences	1.75		3
NASC 2	The Living Planet	1.50		3
PE 1	Foundations of Physical Fitness	1.50		(2)
SECOND SEMESTER, 2003-2004				
MATH 36	Mathematical Analysis I	2.75		5
ENG 2	College Writing in English	1.75		3
NASC 3	Physics in Everyday Life	1.75		3
ENG 1	College English	1.50		3
HIST 2	Asia and the World	1.25		3
CMSC 11	Introduction to Computer Science	2.25		3
PE 2	Elective P.E. for Beginners (Chess)	1.25		(2)
SUMMER, 2004				
STAT 1	Elementary Statistics	1.75		3
PSY 1	Exploring the Self: Thoughts, Feelings, and Actions	1.00		3
FIRST SEMESTER, 2004-2005				
PHYS 81	Fundamental Physics I	1.75		5
MATH 37	Mathematical Analysis II	2.25		5
PHLO 1	Philosophical Analysis	1.00		3
HUM 2	Art, Man and Society	1.75		3
LTS 1	Literacy Training Service	Passed		(3)
PE 2	Elective P.E. for Beginners (Basketball)	1.50		(2)
SECOND SEMESTER, 2004-2005				
CHEM 15	Fundamentals of Chemistry	1.75		5
PHYS 82	Fundamental Physics II	2.00		5
MATH 38	Mathematical Analysis III	1.50		3
SPCH 1	Speech Communication	1.25		3
NASC 4	The World of Life	1.25		3
PE 2	Elective P.E. for Beginners (Taekwondo)	1.50		(2)
LTS 2	Literacy Training Service	Passed		(3)
SUMMER, 2005				
PI 100	The Life and Works of Jose Rizal	1.75		3
PHYS 111	Mathematical Physics I	2.00		3

Remarks: - Over -

Grading System: 1 - Excellent; 1.5 - Very Good; 2 - Good; 2.5 - Satisfactory; 3 - Pass; 4 - Conditional failure; 5 - Failure; Inc. - Incomplete; Dp. - Dropped

Credits: One university unit of credit is one hour lecture or recitation each week for the period of a complete semester of 16 to 17 weeks. In all courses two and a half to three hours of laboratory work, and in technical courses, three hours of drafting or shop work are regarded as the equivalent of one hour of recitation or lecture.

NOTE: This copy is to be signed as an original copy when it bears the stamp of the University and original signature in ink of the University Registrar. Any alteration or alteration made on this copy renders the whole transcript invalid.

Prepared by: L.D. Mercado

Date: May 25, 2007

Checked by: P.B. Alacachupas

Date: June 20, 2007

Updated by:

Date:

Issued by:

Date:

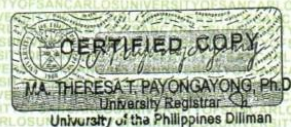
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UNIVERSITY OF SAN CARLOS  
Cebu City, Philippines

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