



The Board of Trustees of the
Asian Institute of Technology

On the Recommendation of the Academic Senate
Has Conferred Upon

HANZEL NAVAL MEJIA

The Degree of

Doctor of Philosophy

With all of its Privileges and Obligations
Given this thirteenth day of December 2024

Dr. -

Prof. Pai-Chi Li
President of the Institute

Anat Arbhahirama

Dr. Anat Arbhahirama
Chairman of the Board



Certified true copy

Dr. Tenzin Rabgyal

Dr. Tenzin Rabgyal
Director
Office of Student Affairs



ASIAN INSTITUTE OF TECHNOLOGY

OFFICIAL TRANSCRIPT

Issue Date: 09 Dec. 2024

Name	Mr. Hanzel Naval Mejia		Previous Degree/Institution	MSCE	Year Awarded	2018
Date of Birth	24 March 1993	Country	Philippines	University of the Philippines-Diliman, Quezon City, Philippines		
Registration No.	121866	Date Admitted to AIT	03 August 2020	Advancement to Candidacy	Final Examination	
				05 August 2021	01 November 2024	
School	School of Engineering and Technology			Degree Awarded	Doctor of Philosophy	
Department	Department of Civil and Infrastructure Engineering			Date of Graduation / Completion	13 December 2024	
Academic Program	Transportation Engineering			Notes		

Course No.	Descriptive Course Title	Total Hours		Credits	Grade	GPA	Cumulative GPA
		Lab.	Lec.				
August Semester 2020							
CE73.11	Transportation Systems	0	45	3.0	A		
CE73.37	Transportation Demand Modeling and Forecasting	0	45	3.0	B+		
CE73.36	Transportation Planning Methods and Analysis	0	45	3.0	A		
CE73.15	Public Transportation Systems	0	45	3.0	B+		
				12		3.75	3.75
	Coursework Credits Gained:			12.0			3.75
	Dissertation Credits Gained:			72.0			
	Total Number of Credits Gained:			84.0			

Title of Dissertation:	MODELING THE IMPACTS OF ADVERSE WEATHER CONDITIONS TO TRAFFIC FLOW DYNAMICS AND THE CALIBRATION AND VALIDATION OF A WEATHER RESPONSIVE ESTIMATION AND PREDICTION SYSTEM OF A MACROSCOPIC TRAFFIC FLOW MODEL				
Program Committee:	1. Prof. Kunrawee Kanitpong (Chairperson) 2. Dr. Ampol Karoonsoontawong (Co-chairperson) 3. Prof. Bonaventura H.W. Hadikusumo (Member) 4. Dr. Djepen San Santoso (Member)				
External Examiner: Name:	Prof. Chungwon Lee				
Affiliation:	College of Engineering, Seoul National University, Korea				
		Official transcript not valid without signature and seal of the Institute			
		Dr. Tenzin Rabgyal Director, Office of Student Affairs			



Asian Institute of Technology

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CERTIFICATION

TO WHOM IT MAY CONCERN:

This is to certify that **Mr. Hanzel Naval Mejia**, a citizen of the Philippines, was awarded the degree of Doctor of Philosophy in Transportation Engineering by the Asian Institute of Technology on 13 December 2024.

This further certifies that AIT, Southeast Asia's premier postgraduate institute of engineering and applied sciences, has students, staff and faculty coming from more than 40 countries. Given the wide range of cultural backgrounds, English is used as the medium of communication in all academic work and the official administrative language.

The Institute would be very grateful for any assistance extended to Mr. Hanzel Naval Mejia.

Certification is Not Valid
Without the Institute's Seal

Dr. Tenzin Rabgyal
Director, Office of Student Affairs



13 December 2024