KING MONGKUT'S UNIVERSITY OF TECHNOLOGY NORTH BANGKOK
BANGKOK THAILAND
OFFICIAL TRANSCRIPT OF RECORDS
FACULTY OF ENGINEERING

NAME IN THAI นายชนัญญู ชูช่วย

RECORD NO 61-010816-3009-2 **NAME** Mr. CHANANYU CHOOCHOUY

DATE OF BIRTH December 22, 1998 **PLACE OF BIRTH** BANGKOK METROPOLIS, THAILAND

PREVIOUS EDUCATION M.6 (Grade 12)

DATE OF ADMISSION August 6, 2018 **DATE OF GRADUATION** June 2, 2022

DEGREE CONFERRED Bachelor of Engineering (Civil Engineering) (Second Class Honours)

FIELD OF SPECIALIZATION —

COURSE NO.	COURSE TITLES	CRD.	GRD.
	1st SEMESTER 2018		
010013016	ENGINEERING DRAWING	3	A
040203111	ENGINEERING MATHEMATICS I	3	A
040313005	PHYSICS I	3	A
040313006	PHYSICS LAB I	1	A
040423001	ENVIRONMENT & ENERGY	3	C
080103001	ENGLISH I	3	B+
080303501	BASKETBALL	1	A
080303606	SYSTEMATIC & CREATIVE THINK	3	B+
SEM.	3.55 20 20 71.0		
CUM.	3.55 20 20 71.0		
	INDEX ATTEMPTED EARNED POINTS		
	2nd SEMESTER 2018		
010813109	ENGINEERING STATICS	3	B+
010813909	COMPUTER PROGRAMMING	3	B+
040113001	CHEMISTRY FOR ENGINEERS	3	B
040113002	CHEMISTRY LAB FOR ENGR	1	B+
040203112	ENGINEERING MATHEMATICS II	3	B
040313007	PHYSICS II	3	B+
040313008	PHYSICS LAB II	1	A
080103002	ENGLISH II	3	A
080303502	VOLLEYBALL	1	A
SEM.	3.47 21 21 73.0		
CUM.	3.51 41 41 144.0		
	INDEX ATTEMPTED EARNED POINTS		

COURSE NO.	COURSE TITLES	CRD.	GRD.
	1st SEMESTER 2019		
010813101	STRENGTH OF MATERIALS I	3	B
010813401	ENGINEERING MANAGEMENT	3	B+
030923102	SCIENCE IN DAILY LIFE	3	A
040203211	ENGINEERING MATHEMATICS III	3	A
040503011	STAT FOR ENGR & SCIENTISTS	3	A
040603003	COMPUTER ETHICS	3	B+
080103030	ACADEMIC READING	3	B
SEM.	3.57 21 21 75.0		
CUM.	3.53 62 62 219.0		
	INDEX ATTEMPTED EARNED POINTS		
	2nd SEMESTER 2019		
010213525	ENGINEERING MATERIALS	3	A
010813001	SURVEYING	3	B+
010813002	SURVEYING LABORATORY	1	A
010813102	STRENGTH OF MATERIALS II	3	A
010813103	THEORY OF STRUCTURES	3	A
010813901	ETHICS FOR PROFESSION	1	A
020003104	ELECTRICITY IN EVERYDAY LIFE	3	A
SEM.	3.91 17 17 66.5		
CUM.	3.61 79 79 285.5		
	INDEX ATTEMPTED EARNED POINTS		
	1st SEMESTER 2020		
010813104	STRUCTURAL ANALYSIS	3	A
010813601	HYDRAULICS	3	B
010813702	ENVIRONMENTAL SYSTEMS & MNGT	3	A
010813802	CONCRETE TECHNOLOGY	2	B+
010813804	CONCRETE LABORATORY	1	A
010813905	NUMER METHOD IN CIVIL ENGR	3	B
080103011	ENGLISH STUDY SKILLS	3	A
SEM.	3.61 18 18 65.0		
CUM.	3.61 97 97 350.5		
	INDEX ATTEMPTED EARNED POINTS		

A CUMULATIVE GRADE POINT AVERAGE OF 2.00 IS REQUIRED FOR GRADUATION.

NOT VALID WITHOUT SEAL **ISSUED ON** July 19, 2022 **REGISTRAR**

(Miss DHANAPORN DEEJONGJAROEN)

KING MONGKUT'S UNIVERSITY OF TECHNOLOGY NORTH BANGKOK
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RECORD NO 61-010816-3009-2 **NAME** Mr. CHANANYU CHOOCHOUY

COURSE NO.	COURSE TITLES	CRD.	GRD.
	2nd SEMESTER 2020		
010813108	COMP AIDED DES IN CIVIL ENGR	3	B+
010813202	REINFORCED CONCRETE DESIGN	4	B
010813302	SOIL MECHANICS	3	A
010813303	SOIL MECHANICS LABORATORY	1	B
010813602	HYDROLOGY	3	C+
010813604	HYDRAULIC LABORATORY	1	B
010813801	CIVIL ENGR MATL & TESTING	2	B+
SEM.	3.23 / 17 / 17	55.0	
CUM.	3.55 INDEX / 114 ATTEMPTED / 114 EARNED	405.5 POINTS	
	3rd SEMESTER 2020		
010813003	FIELD SURVEYING	1	A
SEM.	4.00 / 1 / 1	4.0	
CUM.	3.56 INDEX / 115 ATTEMPTED / 115 EARNED	409.5 POINTS	
	1st SEMESTER 2021		
010813107	STRUC DYNM & EARTHQUAKE ENGR	3	A
010813204	DESIGN OF TIMBER & STEEL STR	4	B+
010813304	FOUNDATION ENGINEERING	4	B+
010813404	SPECI, CONTRA & COST ESTIMAT	3	B+
010813501	HIGHWAY ENGINEERING	3	B+
010813603	HYDRAULIC ENGINEERING	3	B
010813906	CIVIL ENGINEERING PROJECT I	1	A
030923100	PHYSICS OF TECHNOLOGIE	3	A
SEM.	3.58 / 24 / 24	86.0	
CUM.	3.56 INDEX / 139 ATTEMPTED / 139 EARNED	495.5 POINTS	

COURSE NO.	COURSE TITLES	CRD.	GRD.
	2nd SEMESTER 2021		
010813403	CONSTRUCTION ENGR & MNGT	3	A
010813502	TRANSPORTATION ENGINEERING	3	B
010813907	CIVIL ENGINEERING PROJECT II	3	A
030923101	ENERGY RESOURCES	3	A
080203907	BUSINESS FOR EVERYDAY LIFE	3	A
SEM.	3.80 / 15 / 15	57.0	
CUM.	3.58 INDEX / 154 ATTEMPTED / 154 EARNED	552.5 POINTS	

COURSE REQUIREMENTS COMPLETED

A CUMULATIVE GRADE POINT AVERAGE OF 2.00 IS REQUIRED FOR GRADUATION.

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(Miss DHANAPORN DEEJONGJAROEN)

Grading System

I Prior to the academic year 1998

Certificate and Diploma Level

A	4.0	Excellent
A-	3.5	Very Good
B	3.0	Good
B-	2.5	Above Average
C	2.0	Average
C-	1.5	Below Average
D	1.0	Poor
F	0	Failure
Fa	0	Failed, Insufficient Attendance
Fe	0	Failed, Absent from Examination
Fw	0	Failed, Late Withdrawal
I	-	Incomplete
S	-	Satisfactory
U	-	Unsatisfactory
W	-	Withdrawal

Bachelor and Graduate Level

A	4.0	Excellent
B	3.0	Good
C	2.0	Average/Fair
D	1.0	Poor
F	0	Failure
Fa	0	Failed, Insufficient Attendance
Fe	0	Failed, Absent from Examination
Fw	0	Failed, Late Withdrawal
I	-	Incomplete
Ip	-	In-progress
S	-	Satisfactory
U	-	Unsatisfactory
W	-	Withdrawal
AUD	-	Audit

Honours for Bachelor's Degree

1st Class Honours

1. minimum CUM.GPA. of 3.50
2. no failing in any course

2nd Class Honours

1. minimum CUM.GPA. of 3.00
2. no failing in any course

II From the academic year 1998 - present

A	4.0	Excellent
B+	3.5	Very Good
B	3.0	Good
C+	2.5	Above Average
C	2.0	Average
D+	1.5	Below Average
D	1.0	Poor
F	0	Failure
Fa	0	Failed, Insufficient Attendance
Fe	0	Failed, Absent from Examination
Fw	0	Failed, Late Withdrawal
I	-	Incomplete
IP	-	In-progress
S	-	Satisfactory
U	-	Unsatisfactory
W	-	Withdrawal
AUD	-	Audit

Honours for Bachelor's Degree

1st Class Honours

1. minimum CUM.GPA. of 3.60
2. no failing or repeating any course

2nd Class Honours

1. minimum CUM.GPA. of 3.25
2. no failing or repeating any course

Certified true copy

Printed by..... V. Wanchim .....

Approved by.....

ASIAN INSTITUTE OF TECHNOLOGY

OFFICIAL TRANSCRIPT

Issue Date: 09 Dec. 2024

Name: Mr. Chananyu Choochouy		Previous Degree(s)/Institution	Year Awarded
Date of Birth: 22 December 1998	Country: Thailand	B.Eng. King Mongkut's University of Technology, North Bangkok, Thailand	2022
Registration No.: 123170	Date Admitted to AIT: 08 August 2022	Option: Thesis	
School: School of Engineering and Technology		Degree Awarded: Master of Engineering	
Department: Department of Civil and Infrastructure Engineering		Date of Graduation / Completion: 13 December 2024	
Notes:		Academic Program: Structural Engineering	

Course No.	Descriptive Course Title	Total Hours Lab.	Total Hours Lec.	Credits	Grade	GPA	Cumulative GPA
	August Semester 2022						
CE72.11	Computer Methods of Structural Analysis	0	45	3.0	B+		
CE72.21	Structural Dynamics	0	45	3.0	B+		
CE72.41	Advanced Concrete Technology	0	45	3.0	B+		
CE72.52	Advanced Concrete Structures	0	45	3.0	B		
				12		3.38	3.38
	January Semester 2023						
CE72.12	Finite Element Methods in Engineering	0	45	3.0	B+		
CE72.22	Wind and Earthquake Engineering	0	45	3.0	B		
CE72.33	Structural Design of Tall Buildings	0	45	3.0	B+		
CE72.9008	Selected Topic: Prestressed and Post-tensioned Concrete	0	45	3.0	B		
				12		3.25	3.31
	Inter-Semester 2023						
EL00.19	Academic and Technical Writing	0	26	0	P		
	August Semester 2023						
CE60.992A	Special Study: Integrating Seismic Response and Cost Analysis for Optimal Viscous Damper Systems in Structural Design			2.0	B+		
				2		3.50	3.33
	Coursework Credits Gained:			26.0			3.33
	Thesis Credits Gained:			22.0			
	Total Number of Credits Gained:			48.0			
	Thesis Examination:				Passed		

Title of Thesis: OPTIMIZATION OF VISCOUS DAMPER SYSTEMS IN FRAME BUILDINGS USING NONLINEAR PROGRAMMING: A COST-EFFECTIVE APPROACH TO SEISMIC RESPONSE

Grade: Very Good

Program Committee:
1. Prof. Pennung Warnitchai (Chairperson)
2. Dr. Punchet Thammarak (Member)
3. Dr. Chaitanya Krishna (Member)
4. Prof. Thanakorn Pheeraphan (Member)

Official transcript not valid without signature and seal of the Institute

Dr. Tenzin Rabgyal
Director, Office of Student Affairs

GRADING SYSTEM FOR GRADUATE PROGRAMS

Course Grade	Definition	Grade Points
A	***Excellent.*** Thorough knowledge and mastery of concepts and/or techniques together with a high degree of skill and/or great originality in satisfying the requirements of a piece of work or course.	4.00
B+	***Very Good.*** Thorough knowledge and mastery of concepts and/or techniques together with a fairly high degree of skill in the use of those concepts and techniques in satisfying the requirements of a piece of work or course.	3.50
B	***Good.*** Good level of knowledge or mastery of concepts and/or techniques with a considerable skill in using them in satisfying the requirements of a piece of work or course.	3.00
C+	***Near Competent.*** Level of knowledge or mastery of concepts and/or techniques requires more efforts to satisfy the requirements of a piece of work or course.	2.50
C	***Deficient.*** Level of knowledge or mastery of concepts and/or techniques requires intensive efforts to satisfy the requirements of a piece of work or course.	2.00
D	***Highly Deficient.*** Knowledge or mastery of concepts and/or techniques and understanding of the subject matter is unacceptably low.	1.00
F	***Failing.*** Very poor with very limited knowledge or limited mastery and understanding of concepts and/or techniques; comprehension of the subject matter is very limited.	0
I	***Incomplete.*** Course may be completed at a later time without prejudice.	-
Pass/Fail	A "passing" grade refers to any grade above "1" and a "failing" grade refers to grade equal to "1" or below.	

A thesis (22 credits), research study (10 - 12 credits) or project (6 credits) which is judged to be satisfactory, is accorded one of the following grades:

Grade	Definition
Excellent	An excellent grade marks an exceptionally skillful and innovative piece of research. The work clearly and explicitly has significance in the respective field on a national and international level. The knowledge of previous research and theoretical discussion is comprehensive, the concepts relevant and derived skillfully from prior discourse in the respective field. Due to scientific or practical merits, the work could be published as such or as an abridged version in a scientific or - in case of a project - practitioner's journal or a similar reviewed publication in the field.
Very Good	Overall, the work indicates the author's independent, critical and innovative research method, ability to analyze theoretically substantial bodies of knowledge and problems or the skill to implement solutions to significant practical assignments. The research goals, concepts and terminology and research problems are well-determined and skillfully combined into a theoretical framework. The research methodology is well chosen and argued, and the gathering and analysis of material has been done with insight.
Good	The work demonstrates, while not on a high level, the author's ability to accurately conduct research or – in case of a project - prepare solutions to practical problems. The topic and approach chosen may be conventional. The methodical choices have been accounted for, if only narrowly. Theories and research results related to the research subject have been discussed, but on the whole the approach may be mechanical, merely listing the relevant research bases. The language range used may be limited.
Fair	The research work is acceptable but there are shortcomings on several aspects. Research goal and the terminology used may be unclear. The scientific or practical background may be either too narrow or badly delimited. Analysis of the material may be incomplete and the presentation of the results not fully convincing.

Note: Internships are graded Excellent, Very Good, Good or Fair.

Grades received for all courses are used in the computation of cumulative averages, but only course grades of C or higher can be counted to satisfy the credit requirement.

A student must repeat a required course if the grade awarded was not considered satisfactory (grade "D" or "F"). A student may choose to repeat any course. When a course is repeated, only final grade is recorded on the final transcript, along with no. of attempts noted. Students who repeat courses are not eligible for awards based on CGPA. Students are charged for repeating courses at the standard rate per credit hour.

An audit course cannot be given grades or credit as the student is not required to take examinations, but may participate in class discussions at the discretion of the course instructor.

English is the language of all Institutes' academic and administrative communication.

AIT Degree requirements can be obtained by contacting registry@ait.ac.th.

Contact Address: Registry Unit, Office of Student Affairs (OSA), Asian Institute of Technology, P.O. Box 4, Klong Luang, Pathumthani 12120, Thailand
Tel: (66-2) 524-5034-36, 6322, 6325; E-mail: registry@ait.ac.th; Homepage: www.ait.ac.th

For verification, please check from URL: https://certificates.ait.ac.th/5a5a379e-4760-4825-b6db-36a7cee67187

GP