



# NATIONAL UNIVERSITY of SINGAPORE

## OFFICIAL TRANSCRIPT

NAME: ZECHARIAH GERARD TAN JIA LE

STUDENT NO: A0155361J

DATE OF BIRTH: 12/08/1995

DATE ISSUED: 03/07/2020

PROGRAMME: BACHELOR OF ENGINEERING (COMPUTER ENGINEERING)

PROGRAMME STATUS: COMPLETED PROGRAMME

### MODULE

### GRADE

### CREDITS

BACHELOR OF ENGINEERING (COMPUTER ENGINEERING)

CUMULATIVE AVERAGE POINT : 4.28

### MODULE

### GRADE

### CREDITS

### ACADEMIC YEAR 2017/2018 SEMESTER 1

### ACADEMIC YEAR 2016/2017 SEMESTER 1

CG1001	INTRODUCTION TO COMPUTER ENGINEERING	A-	2.00
CS1010	PROGRAMMING METHODOLOGY	B+	4.00
CS1231	DISCRETE STRUCTURES	B+	4.00
GER1000	QUANTITATIVE REASONING	A-	4.00
GES1017	BUILDING A DYNAMIC SINGAPORE - ROLE OF ENGINEERS	B+	4.00
MA1505	MATHEMATICS I	A-	4.00

BACHELOR OF ENGINEERING (COMPUTER ENGINEERING)

CUMULATIVE AVERAGE POINT : 4.23

CP2106	INDEPENDENT SOFTWARE DEVELOPMENT PROJECT (ORBITAL)	CS	4.00
CS2101	EFFECTIVE COMMUNICATION FOR COMPUTING PROFESSIONALS	S	4.00
CS2103T	SOFTWARE ENGINEERING	B-	4.00
EE2020	DIGITAL FUNDAMENTALS	B+	5.00
EE2027	ELECTRONIC CIRCUITS	A-	4.00
GEQ1000	ASKING QUESTIONS	CS	4.00

BACHELOR OF ENGINEERING (COMPUTER ENGINEERING)

CUMULATIVE AVERAGE POINT : 4.19

### ACADEMIC YEAR 2016/2017 SEMESTER 2

CG1108	ELECTRICAL ENGINEERING	A	4.00
CS1020	DATA STRUCTURES AND ALGORITHMS I	B+	4.00
ES1531	CRITICAL THINKING AND WRITING	A-	4.00
MA1506	MATHEMATICS II	B+	4.00
PC1432	PHYSICS IIE	A	4.00

BACHELOR OF ENGINEERING (COMPUTER ENGINEERING)

CUMULATIVE AVERAGE POINT : 4.36

### ACADEMIC YEAR 2017/2018 SEMESTER 2

CG2023	SIGNALS AND SYSTEMS	A	4.00
CG2271	REAL-TIME OPERATING SYSTEMS	B	4.00
EE2024	PROGRAMMING FOR COMPUTER INTERFACES	B+	5.00
GET1024	RADIATION-SCIENTIFIC UNDERSTANDING AND PUBLIC PERCEPTION	S	4.00
ST2334	PROBABILITY AND STATISTICS	A	4.00

BACHELOR OF ENGINEERING (COMPUTER ENGINEERING)

CUMULATIVE AVERAGE POINT : 4.22

### ACADEMIC YEAR 2016/2017 SPECIAL TERM(PART 2)

CS2010	DATA STRUCTURES AND ALGORITHMS II	B	4.00
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### ACADEMIC YEAR 2018/2019 SEMESTER 1

CG3002	EMBEDDED SYSTEMS DESIGN PROJECT	B	6.00
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MODULE		GRADE	CREDITS	MODULE		GRADE	CREDITS
CG3207	COMPUTER ARCHITECTURE	B+	4.00				
EE4204	COMPUTER NETWORKS	B+	4.00	ACADEMIC YEAR 2019/2020 SEMESTER 2			
EG2401	ENGINEERING PROFESSIONALISM	C+	3.00				
GEH1049	PUBLIC HEALTH IN ACTION	B	4.00	CG4001	B. ENG. DISSERTATION	B+	12.00
				CS4222	WIRELESS NETWORKING	B+	4.00
				EE4210	NETWORK PROTOCOLS AND APPLICATIONS	A	4.00
				MUA1223	DESKTOP MIXING PRODUCTION	A-	4.00
BACHELOR OF ENGINEERING (COMPUTER ENGINEERING)							
CUMULATIVE AVERAGE POINT : 4.08							
ACADEMIC YEAR 2018/2019 SEMESTER 2				BACHELOR OF ENGINEERING (COMPUTER ENGINEERING)			
				CUMULATIVE AVERAGE POINT : 4.13			
EG3611	INDUSTRIAL ATTACHMENT	IP	12.00	CONFERRED/AWARDED THE DEGREE(S)/DIPLOMA(S) OF:			
BACHELOR OF ENGINEERING (COMPUTER ENGINEERING)				BACHELOR OF ENGINEERING (COMPUTER ENGINEERING) WITH HONOURS (DISTINCTION)			
CUMULATIVE AVERAGE POINT : 4.08				CONFERMENT DATE: 30/06/2020			
ACADEMIC YEAR 2018/2019 SPECIAL TERM(PART 1)				*****END OF TRANSCRIPT*****			
EG3611	INDUSTRIAL ATTACHMENT	CS	12.00				
BACHELOR OF ENGINEERING (COMPUTER ENGINEERING)							
CUMULATIVE AVERAGE POINT : 4.08							
ACADEMIC YEAR 2019/2020 SEMESTER 1							
CG4001	B. ENG. DISSERTATION	IP	12.00				
CS2107	INTRODUCTION TO INFORMATION SECURITY	B	4.00				
EE3031	INNOVATION & ENTERPRISE I	B+	4.00				
MUA1166	INTRODUCTION TO COMPUTING MEDIA IN MAX	A	2.00				
MUA2271	VIRTUAL INSTRUMENT SOUND DESIGN	A	4.00				
BACHELOR OF ENGINEERING (COMPUTER ENGINEERING)							
CUMULATIVE AVERAGE POINT : 4.10							

**NATIONAL UNIVERSITY OF SINGAPORE (NUS)**  
 Registrar's Office, University Hall (Lee Kong Chian Wing),  
 #UHL-04-01, 21 Lower Kent Ridge Road,  
 Singapore 119077  
 Telephone : (65) 6516 2304  
 Facsimile : (65) 6778 6371  
 Website : <http://www.nus.edu.sg/registrar>

## TRANSCRIPT INFORMATION

*Applicable to Undergraduate and Graduate programmes (unless specified otherwise)*

## MEDIUM OF INSTRUCTION

The medium of instruction used in the University is English, unless specified otherwise.

## GRADE LEGEND

Grade	Grade Point	Additional Grading Options	
A+, A	5.00	S	Satisfactory
A-	4.50	U	Unsatisfactory
B+	4.00	CS	Completed (Satisfactory)
B	3.50	CU	Completed (Unsatisfactory)
B-	3.00	IC	Incomplete
C+	2.50	IP	In Progress
C	2.00	AUD	Audit
D+	1.50	EXE	Exempted
D	1.00	W	Withdrawn
F	0.00	WU	Withdrawal from University

## CUMULATIVE AVERAGE POINT (CAP)

The Cumulative Average Point (CAP) was introduced for students admitted from the Academic Year (AY) 1998/1999 onwards to track the progress of students under the Modular System. It is the weighted average grade point of all modules taken by the student. Modules with no assigned modular credit or grade point are excluded from the calculation of CAP.

## MODULAR CREDIT (MC)

A modular credit (MC) is a unit of the effort, stated in terms of time, expected of a typical student in managing his/her workload. One MC is equivalent to 2.5 hours of study and preparation per week. Thus, a 4-MC module would require 10 hours of work a week, including lectures, tutorials, laboratory sessions, assignments, and independent or group study, over 13 Instructional Weeks in a semester.

## GRADE-FREE SCHEME (GFS)

The Grade-free Scheme (GFS), in the form of 32 MCs of Satisfactory/Unsatisfactory (S/U) option, was introduced for **undergraduate** students admitted from AY2014/2015 onwards to provide a supportive and enabling environment for them to make a successful transition into the academic and social culture of university life. It serves to facilitate a transformation in students' mindsets towards grades and learning in the university setting, as well as enable them to leverage opportunities for a holistic education. It was enhanced from a grade-free first semester to a grade-free first year for undergraduate students admitted from AY2016/2017 onwards.

At the end of a semester, students may choose to retain the letter grade or to exercise the S/U option on a module, in which case the letter grade will not be shown on the transcript nor computed towards the CAP. An 'S' grade is assigned if students receive a C grade or above while a 'U' grade is assigned if the grade obtained is D+, D or F. Students will receive credits towards the degree only if they attain an 'S' grade.

## DEGREE CLASSIFICATION

The criteria for degree classification applicable to students admitted from AY2012/2013 onwards are as follows:

Honours Degree Classification <sup>(i)</sup>	Criteria
Honours (Highest Distinction)	CAP 4.50 and above <sup>(ii)</sup>
Honours (Distinction)	CAP 4.00 – 4.49
Honours (Merit)	CAP 3.50 – 3.99
Honours	CAP 3.00 – 3.49
Pass	CAP 2.00 – 2.99

Bachelor's Degree Classification <sup>(iii)</sup>	Criteria
Pass with Merit	CAP 3.00 and above
Pass	CAP 2.00 – 2.99

(i) This refers to 160-MC degree programmes.

(ii) Particular Faculties/Schools may stipulate other requirements.

(iii) This refers to 120-MC degree programmes.

## LEAVE OF ABSENCE

Only leave of absence of one semester or longer is recorded in the transcript.

## NUS BULLETIN

More information on the University's programmes is available in the NUS Bulletin at: <http://www.nus.edu.sg/nusbulletin>.

This transcript shows the latest information. For information on earlier grade legends, please visit:  
<http://www.nus.edu.sg/registrar/student-records/transcripts/official-transcripts>.

For degree verification, please visit:  
<http://www.nus.edu.sg/registrar/student-records/degree-verification>.

## CHECK FOR AUTHENTICITY:

This digital transcript has been issued by NUS and its authenticity is guaranteed only when it can be successfully accessed through the OpenCerts portal (<https://opencerts.io/>). For more information, please visit: [nus.edu/e-documents](http://nus.edu/e-documents).

*The following information is specific to the respective Faculties/Schools:*

## FACULTY OF DENTISTRY (BDS) / YONG LOO LIN SCHOOL OF MEDICINE (MBBS)

### GRADE LEGEND

Grade	Descriptor	Additional Grading Options	
A+	Distinction	DT	Distinction
A		M	Merit
A-		P	Pass
B+		IC	Incomplete
B		IP	In Progress
B-		W	Withdrawn
C+		WU	Withdrawal from University
C			
F			

### SUPPLEMENTARY EXAMINATION AND RE-EXAMINATION

Students who sit for Supplementary Examination or Re-examination are awarded the grade appropriate to the marks they obtain.

## FACULTY OF LAW (LLB)

### DEGREE CLASSIFICATION

The criteria for degree classification applicable to students conferred their LLB degrees from 30 June 2016 are as follows:

Degree Classification	Criteria
First Class Honours <sup>(i)</sup>	Obtained a Cumulative Weighted Numerical Average for all modules taken at NUS that is equivalent to a grade of A- or better, <u>or</u> finished in the top 10% of the graduating class.
Second Class (Upper Division) Honours <sup>(i)</sup>	Obtained a Cumulative Weighted Numerical Average for all modules taken at NUS that is equivalent to a grade of B or better, and do not qualify for First Class Honours.
Second Class (Lower Division) Honours	Obtained a Cumulative Weighted Numerical Average for all modules taken at NUS that is equivalent to a grade of C or better, and do not qualify either for First Class or Second Class (Upper Division) Honours.
Third Class Honours	Completed the number of credits required for a LLB (Honours) degree but do not qualify for First Class, Second Class (Upper Division) or Second Class (Lower Division) Honours.

(i) No student will be eligible for First Class or Second Class (Upper Division) Honours if:  
 a) the student has failed more than 12 credits of modules at NUS (or while on an approved exchange programme); or  
 b) the student has taken more than 9 semesters to complete the 4-year LLB programme or 7 semesters to complete the 3-year Graduate LLB programme (excluding periods where the student has been granted a leave of absence).

### SUPPLEMENTARY EXAMINATION (applicable to all LAW Programmes)

With effect from AY2018/2019, students who pass a module by Supplementary Examination will receive the grade appropriate to the marks obtained, instead of only receiving a 'D' grade irrespective of the student's performance in the Supplementary Examination.