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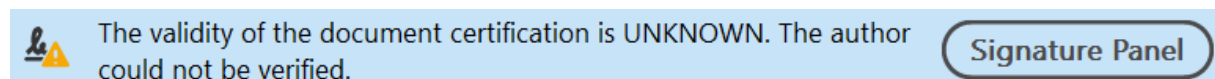
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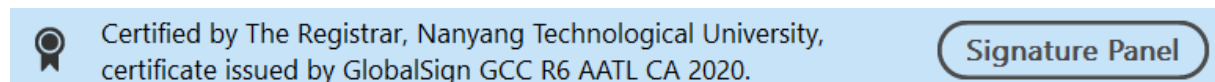
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NANYANG TECHNOLOGICAL UNIVERSITY
SINGAPORE
OFFICIAL TRANSCRIPT

NAME OF STUDENT : SINGH JASRAJ
PROGRAMME : SCIENCE (MATHEMATICAL AND COMPUTER SCIENCES)
DATE OF CONFERMENT : 30 JUNE 2023

MATRIC NO : U1940558D
DATE OF BIRTH : 24 AUGUST 2001

2019-2020 SEMESTER 1

Code	Course	AU	Grade
CZ1003	INTRODUCTION TO COMPUTATIONAL THINKING	3.0	A+
CZ1005	DIGITAL LOGIC	3.0	A
HW0128	SCIENTIFIC COMMUNICATION I	2.0	B
MH1100	CALCULUS I	4.0	A+
MH1200	LINEAR ALGEBRA I	4.0	A+
MH1300	FOUNDATIONS OF MATHEMATICS	4.0	A+
MH9100	ADVANCED INVESTIGATIONS IN CALCULUS I	1.0	A+

No. of Academic Units Earned : 21
Cumulative Grade Point Average : 4.86

2019-2020 SEMESTER 2

Code	Course	AU	Grade
CZ1006	COMPUTER ORGANISATION & ARCHITECTURE	3.0	A+
CZ1007	DATA STRUCTURES	3.0	S
HW0228	SCIENTIFIC COMMUNICATION II	2.0	S
LS9001	SPANISH LANGUAGE LEVEL 1	3.0	A
MH1101	CALCULUS II	4.0	A+
MH1201	LINEAR ALGEBRA II	4.0	A+
MH1301	DISCRETE MATHEMATICS	3.0	S
MH9101	ADVANCED INVESTIGATIONS IN CALCULUS II	1.0	A+

No. of Academic Units Earned : 23
Cumulative Grade Point Average : 4.92

2020-2021 SEMESTER 1

	Code	Course	AU	Grade
	CZ2001	ALGORITHMS	3.0	B+
	CZ2002	OBJECT ORIENTED DESIGN & PROGRAMMING	3.0	A-
	CZ2003	COMPUTER GRAPHICS & VISUALISATION	3.0	B+
	CZ2007	INTRODUCTION TO DATABASES	3.0	B-
	MH2100	CALCULUS III	4.0	A+
	MH2500	PROBABILITY & INTRODUCTION TO STATISTICS	4.0	A+
	MH9000	MATHEMATICAL PROBLEM-SOLVING	2.0	A
*	ML0003	KICKSTART YOUR CAREER SUCCESS	1.0	PASS
*	PS0003	PLAN YOUR CAREER PATH	1.0	PASS

No. of Academic Units Earned : 24
Cumulative Grade Point Average : 4.72

2020-2021 SEMESTER 2

	Code	Course	AU	Grade
	CZ2005	OPERATING SYSTEMS	3.0	A
	CZ2006	SOFTWARE ENGINEERING	3.0	B
*	GC0001	SUSTAINABILITY: SEEING THROUGH THE HAZE	1.0	PASS
	MH3100	REAL ANALYSIS I	4.0	A+
	MH3500	STATISTICS	4.0	A
	MH4110	PARTIAL DIFFERENTIAL EQUATIONS	4.0	A+
	PS0002	INTRODUCTION TO DATA SCIENCE & ARTIFICIAL INTELLIGENCE	3.0	B+
*	PS9015	UNDERGRADUATE RESEARCH	4.0	PASS

No. of Academic Units Earned : 26
Cumulative Grade Point Average : 4.70

2021-2022 SEMESTER 1

	Code	Course	AU	Grade
	CZ3002	ADVANCED SOFTWARE ENGINEERING	3.0	B+
*	HY0001	ETHICS & MORAL REASONING	1.0	PASS
	MH3512	STOCHASTIC PROCESSES	4.0	A+
	PH2103	THERMAL PHYSICS (ON LOCAL EXCHANGE PROGRAMME)	4.0	S
	CZ2004	HUMAN COMPUTER INTERACTION	3.0	TC
	MH3700	NUMERICAL ANALYSIS I	3.0	TC
	UE1	INTRODUCTION TO COMPUTATIONAL BIOLOGY	3.0	TC

No. of Academic Units Earned : 21
Cumulative Grade Point Average : 4.69

2021-2022 SEMESTER 2

	Code	Course	AU	Grade
*	CZ3179	PROFESSIONAL INTERNSHIP	10.0	PASS

No. of Academic Units Earned : 10
Cumulative Grade Point Average : 4.69

2022-2023 SEMESTER 1

	Code	Course	AU	Grade
	BU5401	MANAGEMENT DECISION TOOLS	3.0	S
	MH3520	MATHEMATICS OF DEEP LEARNING	4.0	A-
	MH4300	COMBINATORICS	4.0	A
	MH4900	FINAL YEAR PROJECT		IP
	MH4920	SUPERVISED INDEPENDENT STUDY I	4.0	S
*	PS8001	DEFENCE SCIENCE	3.0	PASS
	MOOC1	THE SCIENCE OF WELL-BEING	1.0	TC

No. of Academic Units Earned : 19
Cumulative Grade Point Average : 4.69

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REMARK : COMPLETED THE DEGREE OF BACHELOR OF SCIENCE IN MATHEMATICAL AND COMPUTER SCIENCES, HONOURS (HIGHEST DISTINCTION)

NANYANG TECHNOLOGICAL UNIVERSITY
SINGAPORE
OFFICIAL TRANSCRIPT

NAME OF STUDENT   : SINGH JASRAJ
PROGRAMME   : SCIENCE (MATHEMATICAL AND COMPUTER SCIENCES)
DATE OF CONFERMENT : 30 JUNE 2023

MATRIC NO   : U1940558D
DATE OF BIRTH   : 24 AUGUST 2001

2022-2023 SEMESTER 2

Code	Course	AU	Grade
CZ3001	ADVANCED COMPUTER ARCHITECTURE	3.0	B
CZ3005	ARTIFICIAL INTELLIGENCE	3.0	B
CZ3006	COMPUTER NETWORK	3.0	B-
CZ4015	SIMULATION & MODELLING	3.0	B+
CZ4046	INTELLIGENT AGENTS	3.0	A-
* ET0001	ENTERPRISE & INNOVATION	1.0	PASS
MH4501	MULTIVARIATE ANALYSIS	4.0	A-
MH4900	FINAL YEAR PROJECT	8.0	A+
MOOC2	MORAL FOUNDATIONS OF POLITICS	2.0	TC

      No. of Academic Units Earned   : 30
      Cumulative Grade Point Average : 4.58

      TOTAL ACADEMIC UNITS EARNED : 174

TRANSFER CREDITS FROM NATIONAL UNIVERSITY OF SINGAPORE

JUL-DEC 2021

Course		Grade
INTERACTION DESIGN		Pass
INTRODUCTION TO COMPUTATIONAL BIOLOGY		Pass
MATRIX COMPUTATION		Pass

TRANSFER CREDITS FROM YALE UNIVERSITY OFFERED ON COURSERA

Course		Grade
THE SCIENCE OF WELL-BEING		Pass
MORAL FOUNDATIONS OF POLITICS		Pass

<u>INTERNSHIP ORGANISATION</u>
SHOPEE SINGAPORE PRIVATE LIMITED

      XXX END OF TRANSCRIPT XXX

REMARK : COMPLETED THE DEGREE OF BACHELOR OF SCIENCE IN MATHEMATICAL AND COMPUTER SCIENCES, HONOURS (HIGHEST DISTINCTION)

REGISTRAR

Date of Issue : 3 JULY 2023

TRANSCRIPT GUIDE

GENERAL INFORMATION

The information in the transcript is applicable to undergraduate and graduate programmes unless otherwise specified.

Medium of Instruction   The University's medium of instruction is English unless otherwise specified.

Academic Unit System   The Academic Unit System was adopted from academic year 1993-1994 in the Wee Kim Wee School of Communication and Information for undergraduate programmes and was implemented in all other Schools from academic year 1994-1995 and 2000-2001 for undergraduate programmes and graduate programmes respectively.   Students are required to obtain a specified number of academic units to fulfill their degree requirements. One academic unit is equivalent to 13 teaching hours in a semester or trimester.

Transfer of Academic Units   Students are allowed to take some courses from another institution and transfer the number of Academic Units earned from that institution towards fulfilling the degree requirements of this University.

Exemptions   On the basis of relevant qualifications attained prior to admission to this University, students may be granted exemption from some courses or from the first year of study.

Rank   The University does not rank its students.

GRADINGS

Prior to academic year 2005-2006, the following grading system is adopted:

Grade	Undergraduate Programmes		Graduate Programmes
	Prior to AY1994-95	AY1994-95 to AY2004-05	Up to AY2004-05
DIST	Distinction	Distinction	-
A	Excellent	Excellent	Excellent
B	Very Good	Very Good	Very Good
C	Good	Good	Good
D	Pass	Pass	Pass
E	Compensation Pass	Marginal Fail	-
F	Fail	Fail	Fail

Note: The DIST grade is only applicable to Engineering, Computer Engineering and Materials Engineering programmes. Prior to AY1994-95, the E grade is applicable only for these programmes.

From academic year 2005-2006 onwards:

Grade Point Average (GPA) System   The GPA System was adopted from academic year 2004-2005 for undergraduate programmes in the School of Humanities and Social Sciences. It was implemented in all other Schools with effect from academic year 2005-2006 for graduate students and undergraduate students admitted to Year 1, and with effect from academic year 2006-2007 for undergraduate students admitted directly to Year 2.
Students who are not under the GPA System follow the same grading system without the grade points.

The grades and grade points assigned are as follows:

Letter-Grade		Grade Point
A+	-	5.00
A	-	5.00
A-	-	4.50
B+	-	4.00
B	-	3.50
B-	-	3.00
C+	-	2.50
C	-	2.00
D+	-	1.50
D	-	1.00
F	-	0.00

Dissertation for graduate programmes may be graded (depending on the programme of study) but is not included in the computation of GPA.

Satisfactory/Unsatisfactory (S/U) Option
(for Undergraduate Programmes only)   The S/U grading option allows a student to take a course on an ungraded basis (i.e. no letter grade, e.g. A, B, etc.). For a course opted to be graded on S/U basis, the student will earn academic units for the course only if a 'Satisfactory' (S) grade is attained.

Freshmen Year GPA Exemption
(for Undergraduate Programmes only)   Introduced for students admitted from academic year 2014-2015, exemption from GPA computation applies for up to 6 letter-graded courses that students do not pass on their first attempt in the Freshmen Year.

NOTATIONS

*	-	Course with Pass/Fail grading only
#	-	Repeated attempt
AT	-	By attendance only
IP	-	In Progress
LOA/X	-	Absent (with valid reasons)
W	-	Withdrawal
EX	-	Exempted from course
TC	-	Transfer credits
S	-	Satisfactory
U	-	Unsatisfactory
+	-	Course conducted in Chinese

DEGREE CLASSIFICATION
(For Undergraduate Programmes only)

Under the GPA System, the awarded degree classifications are as follows:

AY2005-06 to AY2016-17		From AY2017-18
4-year Programmes	3-year Programmes	3-year and 4-year Programmes
First Class	First Class	Honours (Highest Distinction)
2nd Class Upper	2nd Class Upper	Honours (Distinction)
2nd Class Lower	2nd Class Lower	Honours (Merit)
Third Class	Pass with Merit	Honours
Pass	Pass	Pass

OTHER INFORMATION

Bachelor Degrees awarded by the National University of Singapore
Until June 1991, all engineering students underwent a common first year programme at the National University of Singapore's Faculty of Engineering. On successful completion, students could opt to complete the remaining three years at the National University of Singapore or the Nanyang Technological Institute, the predecessor institution of the Nanyang Technological University.

Under a special arrangement with the Senate of the National University of Singapore, all engineering and accountancy graduates were awarded degrees by the National University of Singapore prior to 1 July 1991.

Certain categories of students may opt to be awarded their degree by either the National University of Singapore or the Nanyang Technological University after 1 July 1991 and up to 1993 for the School of Accountancy, and in the years 1993 and 1994 for the Schools of Engineering.