ACADEMIC TRANSCRIPT

NAME	STUDENT ID	NRIC/FIN	DATE OF BIRTH	ACADEMIC YEARS	DATE OF PRINT
TAN JUN WEI	H1710129		25 July 2004	2017 - 2022	18 October 2022

AWARDED: DIPLOMA (HIGH DISTINCTION) WITH HONOURS IN MATHEMATICS AND PHYSICS AND MAJOR IN CHEMISTRY

GRADUATION CAP WITH MOTHER TONGUE:	4.4
GRADUATION CAP WITHOUT MOTHER TONGUE:	4.6

SUBJECTS TAKEN	TOTAL MODULAR CREDITS	SUBJECT CAP	HONOURS GRADE
English Language	24	4.1	-
Mother Tongue	16	2.5	-
Mathematics	**38**	**4.9**	Distinction
Biology	6	3.5	-
Chemistry	**30**	**4.6**	-
Physics	**42**	**5.0**	Distinction
Humanities, Art & Music	8	4.0	-

Subjects in BOLD refer to Majors and Honours taken (where applicable)

In addition, TAN JUN WEI read and completed 1 external university modules.
Please refer to section on EXTERNAL UNIVERSITY MODULES

Module Code	Module Title	Modular Credits	Final Grade	Remarks (if any)
Academic Year 2022 - Year 6 Semester 2 (CAP - 4.6)				
CM6132	Experiments in Synthetic Chemistry	4	A	
EL6132	Language For Personal And Professional Communication	2	B+	
EL6134	Understanding Discourse	2	A-	
HU6131	Capstone	2	B+	
MA6132	Advanced Mathematics II	5	A-	
MA6433	Graph Theory	2	Distinction	
PC6131	Advanced Physics V	4	A+	
Academic Year 2022 - Year 6 Semester 1 (CAP - 4.6)				
CM6131	Chemistry In Context	4	A-	
EL6131	Critical reading and writing III: Emerging issues in a changing world	2	B+	
MA6131	Advanced Statistics	5	A	

Module Code	Module Title	Modular Credits	Final Grade	Remarks (if any)
MA6431	Honours Calculus	2	Distinction	
PC6132	Practical Circuitry & Introductory Electronics	4	A+	
PC6432V	NUS/PC2174A Mathematical Methods in Physics I	4	Distinction	
Academic Year 2021 - Year 5 Semester 2 (CAP - 4.6)				
CM5132	Thermodynamics And Electrochemistry	4	A-	
EL5131	Critical Reading And Writing II: The Global Connection	4	B+	
EL5132	Language For Public Communication	2	A-	
MA5132	Statistics	5	A+	
MA5432	Polar Coordinates, Parametric Equations & Vector Functions	2	Distinction	
PC5132	Advanced Physics IV	4	A-	
PC5232	Physics Olympiad Training VII	2	A	
PC5432	Calculus-Based Physics II	2	Distinction	
Academic Year 2021 - Year 5 Semester 1 (CAP - 4.3)				
CM5131	Organic Chemistry	4	A	
MA5131	Advanced Calculus	5	A+	
MA5431	Linear Algebra	2	Distinction	
PC5131	Advanced Physics III	4	A+	
PC5231	Physics Olympiad Training VI	2	A	
PC5431	Calculus-Based Physics I	2	Distinction	
Academic Year 2020 - Year 4 Semester 2 (CAP - 4.2)				
CH4531	Higher Chinese IV	8	B-	
CM4132	Chemical Kinetics And Equilibria	4	A+	
EL4131	Critical Reading And Writing I: Social Institutions And Issues	6	B+	
MA4132	Advanced Mathematics IB	5	A+	
PC4132	Advanced Physics II	4	A+	
PC4232	Physics Olympiad Training V	2	A+	

Module Code	Module Title	Modular Credits	Final Grade	Remarks (if any)
Academic Year 2020 - Year 4 Semester 1 (CAP - 4.2)				
CM4131	Principles of Inorganic Chemistry and Structure of Matter	4	A	
MA4131	Advanced Mathematics IA	5	A+	
PC4131	Advanced Physics I	4	A+	
Academic Year 2019 - Year 3 Semester 2 (CAP - 4.0)				
BL3131	Foundations in Biology III	6	B	
CH3531	Higher Chinese III	8	C	
CM3131	Foundations In Chemistry III	6	B	
CS3233	Object Oriented Programming II	3	B+	Excluded
CS3234	Informatics Olympiad Training II	2	A+	
EL3131	Exposition And Argumentation: Community And Society	6	B+	
MA3132	Foundations In Mathematics IIIB	4	A+	
MU3132	Elements Of Music Theory	3	A-	
PC3131	Foundations In Physics III	6	A+	
Academic Year 2019 - Year 3 Semester 1 (CAP - 4.7)				
CS3231	Object Oriented Programming I	3	B	Excluded
CS3232	Informatics Olympiad Training I	2	A+	
MA3131	Foundations In Mathematics IIIA	4	A	
MU3131	Music: The Extravagant Art	3	B	
PC4231	Physics Olympiad Training IV	2	A+	Accelerated

ALL MODULES READ IN YEARS 1 & 2 ARE _EXCLUDED_ FROM GRADUATION CAP.

Module Code	Module Title	Modular Credits	Final Grade	Remarks (if any)
Academic Year 2018 - Year 2 Semester 2 (CAP - 4.2)				
BL2131	Foundations in Biology II	6	B	
CH2531	Higher Chinese II	6	B-	
CM2131	Foundations In Chemistry II	6	A	
CS2233	Problem Solving In Computing	2	A+	
EL2131	Language And Literary Studies II	6	A-	
HU2131	Humanities Studies II	2	B+	
MA2132	Foundations in Mathematics IIB	4	A+	
MU2132	Basic Musicianship II	2	A-	

Module Code	Module Title	Modular Credits	Final Grade	Remarks (if any)
PC2131	Foundations In Physics II	6	A	
PC3232	Physics Olympiad Training III	2	A+	Accelerated
Academic Year 2018 - Year 2 Semester 1 (CAP - 4.1)				
CS2231	Introduction To Programming	2	A+	
MA2131	Foundations In Mathematics IIA	4	A+	
MU2131	Basic Musicianship I	2	B+	
PC3231	Physics Olympiad Training II	2	A	Accelerated
Academic Year 2017 - Year 1 Semester 2 (CAP - 4.0)				
BL1131	Foundations In Biology I	4	B	
CH1531	Higher Chinese I	6	C+	
CM1131	Foundations In Chemistry I	4	B+	
CS1131	Computational Thinking	2	A-	
EL1131	Language And Literary Studies I	8	B+	
HU1131	Humanities Studies I	4	A-	
MA1132	Foundations In Mathematics IB	3	A	
MA1232V	Math Olympiad Training II	2	C	
MU1131	Foundations In Music	2	A-	
PC1131	Foundations In Physics I	4	A-	
PC1333	Introductory Astronomy: Observing The Universe	2	Pass	
Academic Year 2017 - Year 1 Semester 1 (CAP - 4.4)				
AR1131	Foundations In Art I	2	B	
MA1131	Foundations In Mathematics IA	3	A	
MA1231	Math Olympiad Training I	2	A-	
PC1331	Robotics I	2	Distinction	
EXTERNAL UNIVERSITY MODULES				
PC2174A	MATHEMATICAL METHODS IN PHYSICS I AY2021/2022 Semester 2	4	A	Offered by NUS (Honours in lieu)

EXPLANATORY NOTES

Cumulative Average Point (CAP) [1] =	
$$\frac{\text{sum (module grade point} \times \text{Modular Credits (MC) assigned to module)}}{\text{sum (MC assigned to modules)}}$$	
• Shows academic performance up to current time point [2]	
• Grade points of all Core and *Elective* [1] modules are used for computation of CAP [2]	

Annual Promotion CAP	• Shows academic performance of each Academic Year of Study only • Grade points of all Core and Elective modules read in that Academic Year of Study
Subject CAP	Computes grades of all Core and *Elective* [1] modules at Level 3000 - 6000, in that subject • Subject CAP at Years 1 & 2 will be shown for records. • Subject CAP shall be shown for English Language, Mother Tongue Language (except for exempted/MTLB students), Mathematics, Physics, Chemistry, Biology and Computer Science (for students who read Computer Science as a Major/Major with Honours). • Students who read a 4th Major in Art/Economics/English Literature/Geography/History/Music shall have the Subject CAP shown as 'Humanities, Art and Music (Art/Economics/English Literature/Geography/History/Music), where applicable.

[1] *Elective modules may be included in computation to maximize MC for total workload calculated on top of core modules to attain the best CAP.*
[2] *The period to be included for the computation will depend on the specific year of studies and up to current time point.*

Grading System

Core And Elective Modules						Honours and Enrichment Modules [3]
Grade	Grade Point	Grade	Grade Point	Grade	Grade Point	No Grade Point Awarded
A+	5.0	B	3.5	D+	1.5	Distinction
A	5.0	B-	3.0	D	1.0	Merit
A-	4.5	C+	2.5	F	0	Pass
B+	4.0	C	2.0			Unclassified

[3] *The performance of these modules is not used in the computation of CAP.*

Additional Indicators for Modules:

Exempted	The student was exempted from reading the module, after appropriate assessment was passed. Modular credits are fulfilled. No Grade and Grade Point will be awarded for the exempted module.
In Progress	The student has not completed reading the module, as all appropriate assessment has not been satisfied. Modular credits, Grade and Grade Point will be awarded upon completion.
Accelerated	The student completed a higher level module.
Completed	The student completed the module.
Repeated	The student repeated the module.
Excluded	The module was excluded from Graduation CAP computation.

Module Code: Example - BL1107 / CS3204C / MA2203V / PC5403 / CH1531
First two letters: Subject code that denotes the discipline (see List of Subject Codes)
The first digit indicates the academic level of module offered. '1' for Level 1, '2' for Level 2, '3' for Level 3, '4' for Level 4, '5' for Level 5 & '6' for Level 6.
The second digit indicates the type of module: 1 for **Core**, 2 for **Elective**, 3 for **Enrichment**, 4 for **Honours**; 5 for **Mother Tongue Language Core**.
The last two digits indicate the module number.
Suffix letter for modules (where applicable): 'A' indicates the module is a preclusion and taken in lieu of the core module, with different assessment weighting. 'M' indicates an approved Mother Tongue Language in-lieu module including Non Tamil Indian Language (NTIL) conducted in MOE-approved language centers. 'V' indicates the module is offered by external agencies or Institutes of Higher Learning, but is considered a school module.

List of Subject Codes

AR Art	CM Chemistry	GC General Curriculum	HU Humanities	PC Physics
BG Bengali	CS Computer Science	GE Geography	JP Japanese	PE Physical Education
BL Biology	EC Economics	GJ Gujarati	MA Mathematics	PJ Panjabi
CE Character & Citizenship Education	EL English Language	GM German	MH Higher Malay	TH Higher Tamil
CH Higher Chinese	EN English Literature	HD Hindi	ML Malay	TL Tamil
CL Chinese	FR French	HY History	MU Music	UD Urdu

Class of Diploma	High Distinction	Distinction	Merit	Pass
Graduation CAP OR Graduation CAP without Mother Tongue (whichever is higher)	≥ 4.5	4.0 – 4.4	3.0 – 3.9	2.5 – 2.9

NUS HIGH SCHOOL of Math & Science

RESEARCH, INNOVATION & ENTERPRISE TRANSCRIPT

NAME	STUDENT ID	NRIC/FIN	DATE OF BIRTH	ACADEMIC YEARS	DATE OF PRINT
TAN JUN WEI	H1710129	▮▮▮▮	25 July 2004	2017 - 2022	18 October 2022

Overview

NUS High strives to inspire research, innovation and enterprise according to students' passion and aptitude.
This transcript records the courses taken, and the achievements of each student in the area of research, innovation and enterprise.

Publications in Peer Reviewed Scientific Journals

Russell Yang, Jun Wei Tan, Tommy Tai, Jin Ming Koh, Linhu Li, Stefano Longhi, Ching Hua Lee, Designing non-hermitian real spectra through electrostatics, Science Bulletin, 2022, In Press, https://doi.org/10.1016/j.scib.2022.08.005

Research/Innovation Awards

Competition	Award	Year
Singapore Science and Engineering Fair	Gold	2022
S.T. Yau High School Science Award (Asia)	Honourable Mention	2021
Singapore Science and Engineering Fair	Yale-NUS Special Award	2021
Singapore Science And Engineering Fair	Merit	2021
Singapore Science And Engineering Fair	Merit	2020
Singapore Science And Engineering Fair (Junior Category)	Finalist	2019

Research/Innovation Projects

Title	Designing Arbitrary Non-Hermitian Hamiltonian Spectra via Electrostatic Conformal Maps		
Year	2022	**Grade**	Distinction

This project satisfies the graduation requirement. The project won a Gold Award at the Singapore Science and Engineering Fair 2022.

Abstract

Non-hermiticity presents a vast newly opened territory that harbors new physics and applications such as lasing and sensing. However, only non-Hermitian systems with real eigenenergies are stable, and great efforts have been devoted in designing them through enforcing parity-time (PT) symmetry. In this work, we exploit a lesser-known dynamical mechanism for enforcing real-spectra, and develop a comprehensive and versatile approach for designing new classes of parent Hamiltonians with real spectra. Our design approach is based on a new electrostatics analogy for modified non-Hermitian bulk-boundary correspondence, where electrostatic charge corresponds to density of states and electric fields correspond to complex spectral flow. As such, Hamiltonians of any desired spectra and state localization profile can be reverse-engineered, particularly those without any guiding symmetry principles. By recasting the diagonalization of non-Hermitian Hamiltonians as a Poisson boundary value problem, our electrostatics analogy also transcends the gain/loss-induced compounding of floating-point errors in traditional numerical methods, thereby allowing access to far larger system sizes.

Research/Innovation Projects

Title	A Comprehensive Study into the Magnetic Levitation of a Magnetic Stirrer		
Year	2021	**Grade**	Distinction

This project is completed in addition to the graduation requirement. The project won a Merit Award and the Yale-NUS Special Award at the Singapore Science and Engineering Fair 2021.

Abstract

The magnetic stirrer is a common science laboratory equipment, typically used for the mixing of a solution. It is observed that under certain circumstances, the flea of a magnetic stirrer lags behind the driver magnets sufficiently, to the point that it is able to levitate. For this research, we study the onset of this levitation, and quantify the flea's motion, finding excellent agreement between our analytical model and the flea's motion. We also study the stability of the levitation, attributing it to the fluid flow, which provides the restoring force for radial stability. These results provide a novel method by which magnetic levitation can be stabilised, allowing for the development of passive magnetic bearings that work at low angular velocity, as well as bidirectional fluid pumps.

Research/Innovation Projects

Title	Acoustics of Periodically Nonlinear Forced Euler-Bernoulli Beams		
Year	2020	**Grade**	Distinction

This project is completed in addition to the graduation requirement. The project won an Honourable Mention at the S.T. Yau High School Science Award (Asia) 2021.

Abstract

Under certain conditions, when a periodically oscillating system is brought into a weak contact with an Euler-Bernoulli Beam, a sound lower than the frequency of the oscillator can be heard. In this project, we investigate both the mechanisms behind sound production and how periodic motion of both the driving

system and the beam can create a low frequency sound. We then proceed to study the nonlinear interaction via collisions between the beam and the driver, showing that even in a simplified model with linear, one-dimensional equations of motion, the nonlinear interaction of collision is still sufficient to produce aperiodic chaotic motion.

Research/Innovation Projects

Title	Analysis and Design of Nichrome-Based Hot Wire Ammeters
Year	2020

Grade   Distinction

This project is completed in addition to the graduation requirement.

Abstract
Hot wire ammeters utilise the heating effect of a current to measure the current itself. However, typical methods often require high precision in cal bration, and have a significant dependence on empirical parameters. While heat-based methods are not conventionally used for laboratory purposes, it presents great educational purposes, to provide students a better understanding of the various underlying physics concepts. We hence construct a hot wire ammeter that is simple in design and easy to construct, due to the wide availability of all materials. Our ammeter's mechanism of current measurement has little reliance on empirical data or calibration readings, while maintaining sufficient sensitivity in measurements.

Research/Innovation Projects

Title	Improving Simple and Efficient Minwise Hashing with Extra Information
Year	2020

Grade   Distinction

This project is completed in addition to the graduation requirement. The project is carried out under Science Mentorship Programme 2019. The project won a Merit Award at the Singapore Science and Engineering Fair 2020. The project also participated in the S.T. Yau High School Science Award (Asia) 2021.

Abstract
With the rapidly increasing abundance of big data, Minwise Hashing algorithms have risen to become one of the most important classes of algorithms. They are frequently used in search engines and computer vision, to recognise objects and produce similar results quickly. Calculating the vector similarities of such large numbers of vectors demands incred bly high computing time, hence approximations are necessary. Minwise hashing algorithms efficiently estimate the Jaccard Similarity between 2 vector. One such algorithm is Simple & Efficient Minwise Hashing. As is characteristic of stochastic algorithms, it is characterised by a variance and a time complexity. In general, a decrease in variance leads to an increase in time complexity. However, in this work, we introduce a method by which the variance of Simple & Efficient Minwise Hashing can be improved, without an increase in time complexity. This was done by introducing an extra vector, and pre-computing vector similarities between the extra vector and the data set.

Research/Innovation Projects

Title	Dynamical Analysis of Rotating Hurricane Balls
Year	2019

Grade   Distinction

This project is completed in addition to the graduation requirement.

Abstract
When two steel balls are stuck together, interesting dynamical phenomena may occur during rotation and subsequent motion. We observe that despite ostensibly symmetric initial conditions, a manifestly asymmetric attractor is observed that exhibits unique properties such as a spin-dependent tilt angle. This exotic phenomenon is investigated and modelled numerically. Numerical results are obtained for the dependence of the Euler angles and velocities in the stable attractive state on various physical parameters, as well as their time dependence. An explanation for the appearance of the spontaneous symmetry breaking and instability of the symmetric state is provided. The numerical results provide an advance over previous works, shedding assumptions that were previously made to make the problem tractable. Experimental results obtained exhibit excellent agreement with the predictions from the numerical analysis.

Da Vinci Modules

Module Code	Module Title	Final Grade	Year
DV1131	Da Vinci Foundation	Merit	2017
DV2131	Design & Engineering	Distinction	2017
DV2133	Science Presentations	Distinction	2018
DV2135	Junior Science Research	Merit	2018
DV3131	Research Methodology	Distinction	2019

— **END OF TRANSCRIPT** —

EXPLANATORY NOTES

Grading System

Da Vinci Programme Modules
No Grade Point Awarded, Da Vinci is excluded from the Cumulative Average Point.
Distinction
Merit
Pass
Unclassified

Explanation of transcript categories
(only categories that are present will be included.)

Publications in Peer Reviewed Scientific Journals
This section records the research publications in which our students are included as co-authors

International Scientific Conferences
This section records the projects presented at the international science conferences in which our students are included as co-authors.

Research Awards
This section record awards won by students in research or innovation based competitions

Student Science Fairs
These are research/innovation fairs or hackathons organized for students.

Research/Innovation Projects
NUS High requires all students to complete at least one research/innovation project in the area related to math/science/computing or technology to graduate. When such a project is completed and graded by our teachers, the title, abstract and grade are reflected in the transcript. Projects completed under modules or other external programmes are also recorded but no grades are reflected.

Da Vinci Modules
To inspire research, innovation and enterprise in our students, NUS High conducts a range of modules to give our students the necessary skills, aptitudes and mindsets for research and innovation.

Core modules

DV1131	Da Vinci Foundation
DV2131	Design and Engineering
DV2133	Science Presentations
DV2134/5/6	Junior Maker/Science Research/Math Research
DV3131	Research Methodology

Elective Modules

DV3232	Advanced Design and Engineering

Other Research/Innovation Activities
This section includes any other research/innovation activities the student attended (e.g. workshops, seminars)

STUDENT DEVELOPMENT TRANSCRIPT

NAME	STUDENT ID	NRIC/FIN	DATE OF BIRTH	ACADEMIC YEARS	DATE OF PRINT
TAN JUN WEI	H1710129	▓▓▓▓▓	25 July 2004	2017 - 2022	18 October 2022

I. LEADERSHIP

INVOLVEMENT OR RESPONSIBILITIES

Organisation	Event/Committee	Role	Year
School	Astronomy Club	President	2021

TRAINING AND DEVELOPMENT

Name of Event	Involvement	Year
Singapore Young Physicists' Tournament Trainer	Participation	2022
Singapore Young Physicists' Tournament Trainer	Participation	2021

II. ACADEMIC

ACHIEVEMENT

Name of Event	Awards	Year
International Physics Olympiad	Silver	2022
Singapore Astronomy Olympiad	Silver	2022
Singapore Physics League	Gold	2022
European Physics Olympiad	Bronze	2021
International Olympiad on Astronomy and Astrophysics	Bronze	2021
Singapore Astronomy Olympiad	Silver	2021
Singapore Physics League	Gold	2021
Singapore Physics Olympiad	Gold	2021
Singapore Young Physicists' Tournament (Category A)	Gold	2021
International Young Physicists' Tournament	Champion	2020
Singapore Junior Physics Olympiad	Gold	2020
Singapore Young Physicists' Tournament (Category A)	Silver	2020
Sustainable Development Youth Convention SDYC	Participation	2020
Australian Informatics Olympiad - Intermediate Division	Silver	2019
International Young Physicists' Tournament	Champion	2019
Singapore Astronomy Olympiad	Bronze	2019
Singapore Junior Physics Olympiad	Gold	2019
Singapore Young Physicists' Tournament (Category B)	Silver	2019
American Mathematics Competitions 10	Participation	2018
Singapore Astronomy Olympiad	Honorable Mention	2018
Singapore Junior Physics Olympiad	Gold	2018
Singapore Mathematical Olympiad (Junior)	Bronze	2018
American Mathematics Competitions 10	Participation	2017
American Mathematics Competitions 12	Participation	2017
American Mathematics Contest 8	Honor Roll	2017
Australian Mathematics Competition (Junior Division)	Credit	2017
Singapore Mathematical Olympiad (Junior)	Bronze	2017

III. AWARDS/SCHOLARSHIPS

Name of Award/Scholarships	Domain (if any)	Year
NUS High School Outstanding Award (Leadership)	Leadership	2021
The Lee Kuan Yew Award for Mathematics and Science		2021
NUS High School Tay Eng Soon Scholarship		2020-2022
NUS High School CCA Achievement Award (Team)		2018-2020
Edusave Award for Achievement, Good Leadership and Service (EAGLES)		2018-2019
Edusave Entrance Scholarships for Independent Schools (EESIS)		2021
		2017-2022

IV. CO-CURRICULAR ACTIVITIES

ACHIEVEMENT

CCA	Event/Committee	Involvement/Award	Year
Astronomy Club		President	2021
		Member	2017-2020
			2022
	NUS/ NTU Astro Challenge	Won 3rd Placing At Inter-school/National Competition	2022
	Astrigue Astronomy Competition	Won 3rd Placing At Inter-school/National Competition	2019
	NUS/ NTU Astro Challenge	Represented School At Local Competition/Exhibition	2019
	Astrigue Astronomy Competition	Won 2nd Placing At Inter-school/National Competition	2018
	Astrigue Astronomy Competition	Represented School At Local Competition/Exhibition	2018
	Nanyang Polytechic Astronomy Competition	Represented School At Local Competition/Exhibition	2018
	NUS/ NTU Astro Challenge	Represented School At Local Competition/Exhibition	2018

TAN JUN WEI

Astrigue Astronomy Competition	Represented School At Local Competition/Exhibition	2017
NUS/ NTU Astro Challenge	Represented School At Local Competition/Exhibition	2017

Heart Healthy Lifestyle Awareness Campaign	Clementi Community Centre	Befriending/Interacting	Member	6	2018
NUS High School Open House	NUS High School of Math and Science	Befriending/Interacting	Member	6	2018
NUS High School Physics Interest Group	NUS High School of Math and Science	Other Service to School	Member	8	2018

V. SUBJECT INTEREST GROUPS

Name of Interest Group	Year
Physics Interest Group	2018-2019

— **END OF TRANSCRIPT** —

VI. OTHER NON-ACADEMIC ACHIEVEMENT/PARTICIPATION

Name of Event	Awards	Year
Fazekas Mihaly Primary and Secondary Grammar School (Hungary)		2022
Singapore Energy Grand Challenge (Youth)	Participation	2022
The Associated Board of the Royal Schools of Music, London	Grade 5 Music Theory (Pass)	2019

VII. HUMANITARIAN EDUCATION PROGRAMME
HUMANITARIAN EDUCATION PROJECT (YEAR 5)

Purpose and Description	Competency	Role	Project Duration	Year
The project aims to help primary school students studying at the foundation P6 Math level in preparing for their upcoming PSLE by providing them with a concise cheat sheet summarising all the chapters tested in the exam. A guidance video is also created to guide students through the cheat sheet we created and to aid them in their understanding of the concepts. Project beneficiaries: Children under the care of Children's Wishing Well at Clementi.	Humanitarian Spirit Active Citizenry	Treasurer	12 months	2021

VIII. SERVICE SUMMARY

Activity	Organisation	Involvement	Role	Hours	Year
HE Project 2021: Creating resources for Primary School students at the P6 Foundation Math level	Children's Wishing Well	Organisation/ Facilitating	Member	48	2021
Astronomy Learning Journey for Victoria Junior College	NUS High School of Math and Science	Guiding	Member	3	2019