

ict

SCHOOL OF
**INFOCOMM
TECHNOLOGY**

NGEE ANN POLY

▸ Common ICT Programme

Revamped

▸ Computing with Law **NEW!**

▸ Applied AI & Analytics

Renamed

▸ Cybersecurity & Digital Forensics

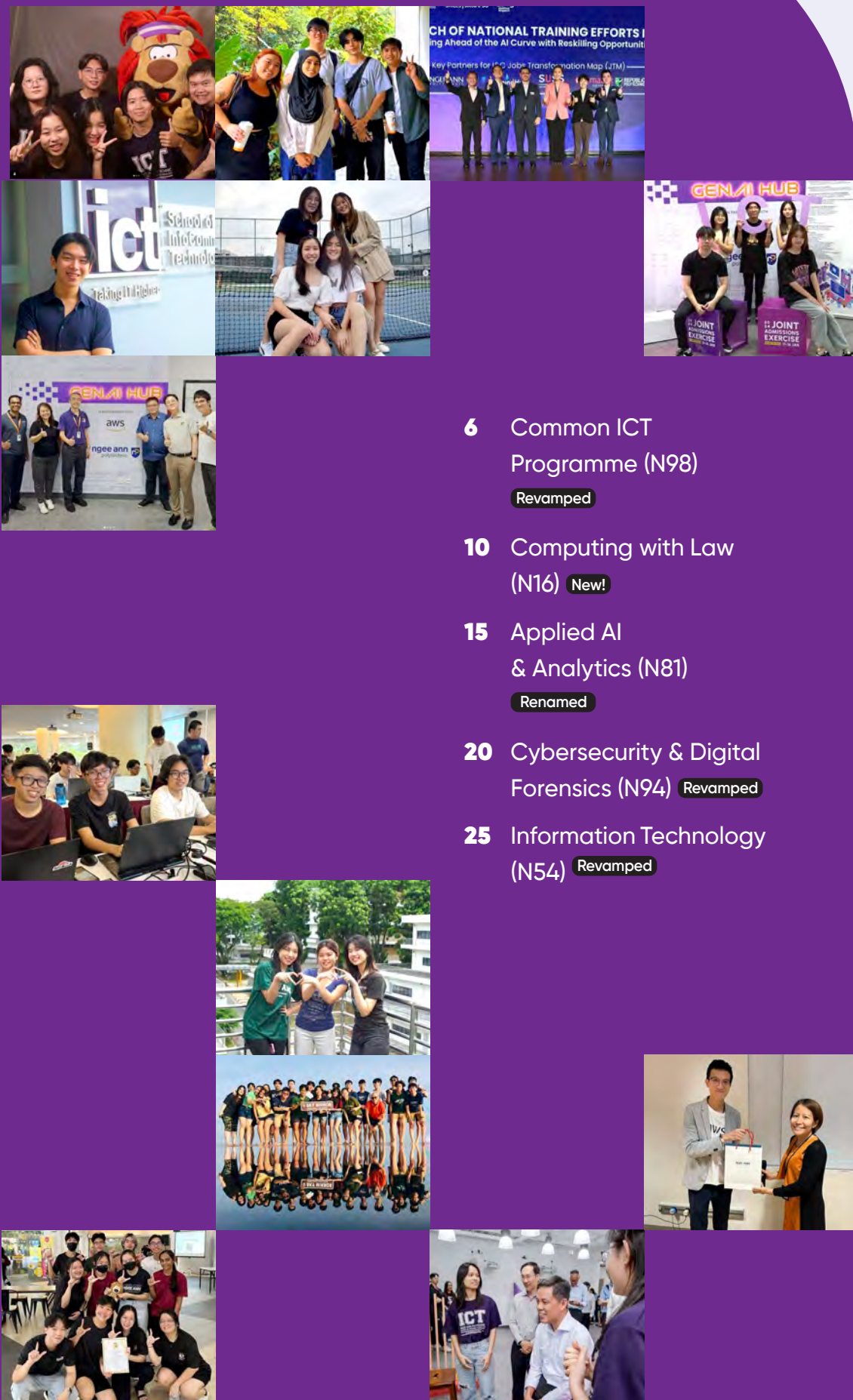
Revamped

▸ Information Technology

Revamped



AY 2026



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- 15** Applied AI & Analytics (N81) Renamed
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Taking IT Higher

Unlock your digital future with the School of InfoComm Technology (ICT). Whether you're fighting cybercrime, gleaning insights from data, transforming the legal industry with tech, or launching your own AI start-up, you'll be empowered to shape the IT solutions of tomorrow. Earn professional certifications, gain industry exposure, and participate in hackathons and masterclasses. Opening doors to exciting careers, ICT equips you to reach higher.



4 Diplomas + 1 Common ICT Programme



Common ICT Programme (N98) **Revamped**

Immerse in the world of infocomm technology with foundational modules from different disciplines in your first semester. At the end of the semester, you can choose one of these diploma programmes:

- Computing with Law **New!**
- Applied AI & Analytics
- Cybersecurity & Digital Forensics
- Information Technology

Diploma in Computing with Law (N16) **New!**

- The only diploma that blends technology and law – preparing you for emerging roles in IT, compliance and the legal sector
- Get a head start for degrees in law, computer science and information systems
- Build industry-relevant skills through partnerships, integrated projects and a LegalTech hackathon

Diploma in Applied AI & Analytics* (N81) **Renamed**

- Specialise in Data Engineering or Generative AI
- Harness the power of data to make strategic business decisions
- Become a highly sought-after AI talent with a solid foundation in data analytics and machine learning
- Earn professional certifications from industry leaders such as Nvidia, Google, Alteryx and Singapore Computer Society

Diploma in Cybersecurity & Digital Forensics (N94) **Revamped**

- Specialise in AI for Cybersecurity, Cloud Security or Operational Technology Cybersecurity
- Build a strong foundation in offensive and defensive cybersecurity skills through a curated and hands-on curriculum
- Boost your portfolio with in-demand industry certifications
- Gain a head start with internships of up to one year at renowned organisations

Diploma in Information Technology (N54) **Revamped**

- Learn how to develop innovative IT solutions, and gain access to exciting learning pathways such as the OCBC-NP Technology Young Talent Programme
- Customise your curriculum with up to 10 modules from 4 specialisation options:
 - Artificial Intelligence Solutioning
 - Immersive Media
 - Product Management
 - Software Engineering

NP-UNIVERSITY PATHWAY*

Start your uni studies ahead of your peers, thanks to the **NP-SMU University Pathway Programme** and the **Poly SUTD Scholars Programme!** Both pathways let you earn credits that count towards your future degree, all while studying at NP!



DOUBLE MAJOR

Pursue a **Second Major in Business***, offered by NP's established School of Business & Accountancy! Gain an edge for your career and further studies with this dual qualification!

* For selected students.

Why Choose ICT



In-Demand Skills

Embark on a specialisation to deepen skills in an emerging field. Graduate with certifications from industry leaders such as Amazon Web Services, Nvidia, and IBM. ICT will help you gain valuable skills and stand out in the job market!



Smart Spaces

Our advanced playlabs offer hands-on experience with industry-leading tools for AI, cybersecurity, analytics, user experience design, and agile development. Get ready for a dynamic and tech-driven future by experimenting with cutting-edge technology.

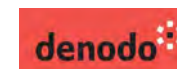


Real-world Learning

Become industry-ready through one-year internships and industry projects. Apply your skills by competing in local and overseas competitions, workshops, hackathons, and tech festivals. Hone practical skills and expand your professional network.

Strong Industry Ties

Our strong links with renowned organisations offer exciting opportunities for learning and talent development.



*Formerly known as Diploma in Data Science

What Industry Says



DARKTRACE

"As a global leader in AI-powered cybersecurity, we are proud to support the next generation of cybersecurity talent in Singapore through our partnership with NP. Students will gain hands-on experience leveraging self-learning AI to identify and respond to threats in real time, engage in discussions on emerging industry trends, and deepen their understanding of the cybersecurity profession. Students specialising in AI for Cybersecurity will be equipped to understand various AI techniques and how they can be used by both attackers and defenders, uniquely positioning them to thrive in this era of AI-powered cybersecurity."

Germaine Tan
Vice President, Security & AI Strategy, FCISO, Darktrace

DELL Technologies

"We believe human progress can be driven through tech. We aim to empower the next generation of innovators to tackle societal challenges and build a brighter future for all communities. Our partnership with NP equips students with cloud-native and AI engineering skills aligned with Singapore's National AI Strategy 2.0. They also get opportunities to give back to the community through initiatives like Dell InnovateFest and InnovateDash. By combining technical mastery with purpose-driven innovation, young talent can be nurtured to create meaningful solutions that benefit both community and industry."

Ng Nam Guan
General Manager & Head, Global Smart Cities and APJ AI Innovation Hub, Dell Technologies

OCBC

"As more companies accelerate their digital transformation efforts, the tech talent crunch has become a significant challenge. We deeply value the partnership with NP on this very meaningful Technology Young Talent Programme which will contribute significantly towards tackling this issue. Every internship under the programme is customised according to a student's strengths and area of study – which is time consuming to do – but we feel that this is worthwhile in order to develop the right tech talent."

Praveen Raina
Head of Group Operations and Technology, OCBC Bank



Scan this QR code for more details about **Go FLEX**

Shape a learning journey that matches your unique interests with NP's **Go FLEX (Flexible Learning EXperience)** and get a head start on your further studies and career!



Go BROADER

Personalised Learning Pathway (PLP) Minor!

With **12 Minors** and **>50 Learning Units (LUs)**, unlock possibilities by pairing your diploma with one of the following Minors:

- Applied Psychology
- Cybersecurity
- Data Analytics & AI
- Entrepreneurship
- Environmental Sustainability
- Foreign Languages
- Global Readiness
- Robotics & Innovation
- Social Leadership
- Social Media Marketing
- Sustainable Care
- User Experience Design

Check out the wide range of LUs at www.np.edu.sg/plp



Go DEEPER

Specialisations

AAA, CSF and IT students can **deepen skills in specialised areas** for the added edge.



Go MULTIPLE

Multidisciplinary Capstone

Collaborate with students across NP to work on exciting **real-world projects** in your final year!



Go LONGER

One-year Industry Immersion

Partnering top-notch organisations, ICT lets you build skills and professional networks with our **one-year internship programmes**.



Go DOUBLE

Double Major

AAA and IT students can opt for a **Second Major in Business** – delivered by NP's esteemed School of Business & Accountancy – to supercharge career and further study options!



Go GLOBAL

Overseas Programmes

Open to every student, ICT's flagship **Regional Learning Journey** is the perfect opportunity for you to bond with your course-mates as you develop cross-cultural skills!



Go DIRECT

University Pathways

AAA, CSF and IT students can apply to the **Poly SUTD Scholars Programme** or **NP-SMU Pathway** to fast-track to a degree. CLW students are eligible for the **NP-SMU Pathway**.



Go FURTHER

Passion+ Pathways

Kick-start your entrepreneurial journey or venture into Southeast Asia with confidence through our signature **Global Entrepreneurial Internship Programme** and **Southeast Asia Immersion Leadership Programme**.



Get latest updates on course



N98

Common ICT Programme Revamped

► Gateway to one of four popular ICT diplomas:

- Computing with Law New!
- Applied AI & Analytics
- Cybersecurity & Digital Forensics
- Information Technology

► Customise your learning with a wide variety of electives offered in all ICT courses

► Through **foundational learning and exposure to industry trends**, our career & professional preparation modules will help you choose your career path

WHAT THE COURSE IS ABOUT

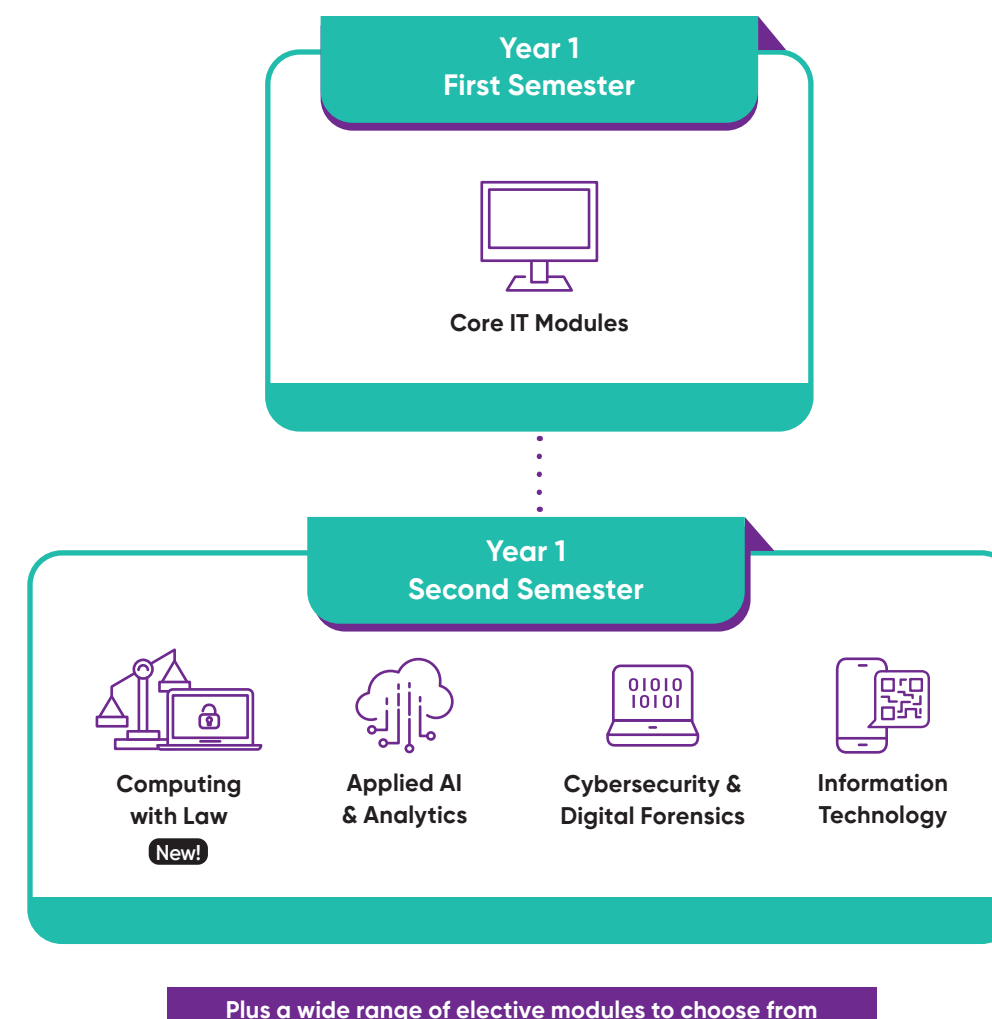
Fascinated by infocomm technology (ICT), but still undecided about which course to pursue? The Common ICT Programme (CICTP) lets you explore different disciplines before selecting your learning pathway.

In your first semester, you will learn broad-based fundamentals such as programming and computing mathematics, along with discipline-specific skills in legal and compliance technologies, cybersecurity,

and data science. The course provides insights into various roles and career paths, helping you discover your interests and aptitude.

At the end of your semester, you can choose your preferred discipline:

- Computing with Law New!
- Applied AI & Analytics
- Cybersecurity & Digital Forensics
- Information Technology



WHAT YOU WILL LEARN

YEAR 1

- AI & Ethics
- Computing Mathematics
- LEAD: Computing in Practice
- Programming Fundamentals
- Health & Wellness^
- Innovation Made Possible^
- Confident Communication: Find Your Voice (VOICE)^
- English Language Express^*

You will select your preferred diploma towards the end of your first semester. Refer to the module listing in the respective diploma pages for more details:

- Computing with Law (page 10)
- Applied AI & Analytics (page 15)
- Cybersecurity & Digital Forensics (page 20)
- Information Technology (page 25)

YEAR 2

- Modules under the ICT diploma you major in
- World Issues: A Singapore Perspective^

YEAR 3

- Modules under the ICT diploma you major in
- Project ID: Connecting the Dots^



^ Critical Core modules account for 13 credit units of the diploma curriculum. They include modules in communication, innovation and world issues, as well as an interdisciplinary project. By bringing students from diverse diplomas together, the interdisciplinary project fosters collaboration to explore and propose solutions for real-world problems. NP aims to develop students to be agile and self-directed learners, ready for the future workplace.

^* For selected students.

To keep our curriculum current and robust, diploma modules are subject to change over the three years. Please visit our website for latest updates.

FURTHER STUDIES

Refer to the Further Studies section on the respective diploma pages.

CAREER

Refer to the Career section on the respective diploma pages.

Entry Requirements

Aggregate Type ELR2B2-C

To be eligible for consideration, candidates must have the following GCE 'O' Level examination (or equivalent) results.

Subject	'O' level Grade
English Language	1-7
Additional Mathematics/Mathematics	1-6
Any one of the 2nd group of Relevant Subjects for the ELR2B2-C Aggregate Type	1-6

Applicants must also fulfil the aggregate computation requirements for the ELR2B2-C Aggregate Type (English Language, 2 relevant subjects and 2 other best subjects) listed at www.np.edu.sg/edu/ELR2B2.pdf.

For students with other qualifications, please refer to the NP website for the entry requirements and admissions exercise period.

Candidates with severe vision deficiency may encounter difficulties meeting the course requirements and expectations.

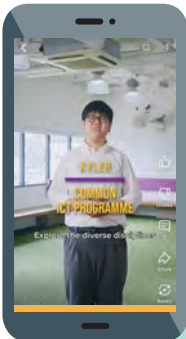
CONTACT US

For the most up-to-date information on NP's Common ICT Programme, log on to www.np.edu.sg/cictp



"The Common ICT Programme is the perfect choice for those who may be uncertain about which course to choose. The introductory modules offer valuable insights into various courses, enabling me to make an informed diploma choice after just one semester."

Wang Yongqing
Cybersecurity & Digital Forensics graduate,
Class of 2024



Scan here to find out what CICTP is all about in 60 Seconds!





Get latest updates on course



N16

Diploma in Computing with Law **New!**

- The **only diploma** that gives you the best of both worlds in technology and law for **emerging roles in law, IT, compliance** and **regulatory sectors**
- **Gain a competitive edge** for future pursuits of diverse university degrees in **law, computer science and information systems**
- Experience **industry-relevant learning** through partnerships with top-notch industry leaders, integrated projects and a LegalTech hackathon
- Shape your learning journey with a **customised learning pathway** aligned to individual interests and aspirations

WHAT THE COURSE IS ABOUT

Be at the exciting intersection of law and technology with the Diploma in Computing with Law (CLW)! The first and only diploma of its kind, CLW equips you to become a highly sought-after talent capable of harnessing technology for legal services.

As law firms undergo digital transformation, and AI becomes a part of everyday life, there is a growing demand for talent who can design digital solutions to improve legal processes and ensure that IT systems meet compliance standards and regulatory requirements.

Whether your aspiration is in law or tech, your dual skill set that bridges both fields will help you to stand out!

Strong Foundation in LegalTech

Develop tech skills in programming, database management, Artificial Intelligence (AI) and cybersecurity, as well as a solid understanding of legal concepts such as contracts and intellectual property management & protection. Explore how tech can be used to solve legal and compliance challenges in real-world settings through modules such as System Solutioning and Development, Corporate Governance & IT Compliance, and Privacy & Data Protection.

Real-world Learning

Apply your skills by working on an integrated capstone project to tackle real-world IT challenges that have a legal or compliance focus. Work in teams to address industry problem statements in a LegalTech Hackathon where you use your knowledge in AI, software development, law and compliance – with the aid of cutting-edge technologies and software tools – to develop and pitch your ideas to professionals in the field.

Deepen your industry exposure through a six-month or one-year internship with a LegalTech firm or tech company. You may also choose to customise your learning by taking up to four electives in areas such as AI, software engineering, cloud architecture, or emerging legal technologies.

Work on AI-based research and compliance assessments, and gain experience in developing innovative solutions like smart contracts and legal automation.

NP-SMU Pathway

Fast-track your university journey with our pathway to SMU! Take selected university modules during your diploma studies and get credit exemptions for SMU's Computer Science, Information Systems and Software Engineering programmes.

Partnership with Industry Leaders

Co-developed with and supported by various industry leaders and agencies, CLW's industry-relevant curriculum offers you opportunities to work on projects commissioned by renowned professional services firms. Look forward to delivering real-world solutions with leading partners in the LegalTech landscape such as the Singapore Academy of Law, contract management platform Lexagle, and multidisciplinary tech-enabled legal solution provider Rajah & Tann Singapore LLP.

Gain a Head Start through Industry Certifications

Earn industry certifications in both tech and legal domains including:

- AWS Certified Cloud Practitioner
- Certified Entry-Level Python Programmer
- Certificate in AI Ethics and Governance
- Professional Scrum Master/Product Owner I

"We are pleased to partner NP to support the pioneer batch of CLW students in gaining a head start in the evolving Legal Tech ecosystem. We hope to equip them with the skills and adaptability to meet the LegalTech industry's current and future needs. Through internships and innovation projects, students will be ready to thrive in a rapidly changing landscape."

Delphine Loo

Senior Director, Learning & Professional Development Cluster and Chief Legal Officer, Singapore Academy of Law

Partnerships

LEXAGLE



Rajah
&Tann
Asia
Lawyers who know Asia

SAL
SINGAPORE
ACADEMY
OF LAW

OVERVIEW OF YOUR CLW JOURNEY



WHAT YOU WILL LEARN

YEAR 1

- AI & Ethics
- Computing Mathematics
- Databases
- Foundations of Law
- Front-End Development
- Fundamentals for ICT Professionals
- LEAD: Computing in Practice
- Programming Fundamentals
- Programming II
- Confident Communication: Find Your Voice (VOICE)^
- Health & Wellness^
- Innovation Made Possible^

YEAR 2

- Back-End Development
- Business Analysis and Product Management
- Contracts & E-Transactions
- Corporate Governance & IT Compliance
- Cybercrimes & Cybersecurity
- ICT Career & Professional Preparation
- Intellectual Property Management & Protection
- Privacy & Data Protection
- System Solutioning and Development
- User Experience Design & Prototyping
- World Issues: A Singapore Perspective^

YEAR 3

- Capstone Project + 2 Electives
- Six-month OR One-year Internship
- Project ID: Connecting the Dots^

Electives

- Artificial Intelligence Concepts and Techniques
- Computer Vision and Natural Language Processing
- Cloud Computing
- Data Structures and Algorithms
- DevSecOps
- Emerging Trends in Legal Technology
- Ethical & Legal Issues in Emerging Technologies
- Modern Artificial Intelligence
- Solution Design and Architecture



^ Critical Core modules account for 13 credit units of the diploma curriculum. They include modules in innovation and world issues, as well as an interdisciplinary project. By bringing students from diverse diplomas together, the interdisciplinary project fosters collaboration to explore and propose solutions for real-world problems. NP aims to develop students to be agile and self-directed learners, ready for the future workplace.

To keep our curriculum current and robust, diploma modules are subject to change over the three years. Please visit our website for latest updates.

FURTHER STUDIES

CLW graduates will have a competitive edge when pursuing related degree programmes at both local and overseas universities, especially in areas such as computer science, information systems, LegalTech, business and law.

CAREER

From law and tech firms, banks, government agencies to MNCs, organisations across industries are seeking professionals with expertise in both law and technology. With this combination of skills, you can look forward to roles such as:

- Legal Technologist
- Data Protection Executive
- Enterprise Risk Management Associate/Executive
- IP Paralegal/Executive
- IP Commercialisation Associate/Analyst
- IP Management Associate/Manager
- Applications Support Engineer
- Associate Product Analyst
- Associate Software Engineer
- Associate UI/UX Designer
- Back-End/Front-End Developer
- Full Stack Developer

Entry Requirements

Aggregate Type ELR2B2-C

To be eligible for consideration, candidates must have the following GCE 'O' Level examination (or equivalent) results.

Subject	'O' level Grade
English Language	1-7
Additional Mathematics/Mathematics	1-6
Any one of the 2nd group of Relevant Subjects for the ELR2B2-C Aggregate Type	1-6

Applicants must also fulfil the aggregate computation requirements for the ELR2B2-C Aggregate Type (English Language, 2 relevant subjects and 2 other best subjects) listed at www.np.edu.sg/edu/ELR2B2.pdf.

For students with other qualifications, please refer to the NP website for the entry requirements and admissions exercise period.

Candidates with severe vision deficiency may encounter difficulties meeting the course requirements and expectations.

CONTACT US

For the most up-to-date information on NP's Diploma in Computing with Law, log on to www.np.edu.sg/clw

"Our collaboration with NP allows us to bring industry insights into the classroom, preparing CLW students with the mindset and practical skills to navigate technology, data and regulation with confidence. As a leading firm in Southeast Asia, we see first-hand how technology is reshaping law and business. This partnership helps students build these strengths from day one."

Abdul Jabbar

Partner, Corporate and Transactional Group
Rajah & Tann Singapore

"Our partnership with NP supports the development of industry-relevant skills through real-world projects and internships. We're excited to play a role in nurturing a new generation of professionals who can apply technology meaningfully within legal and business contexts."

Gerald Heng

CEO
Lexagle Pte Ltd



Get latest updates on course



N81

Diploma in Applied AI & Analytics^{*} Renamed

- ▶ Choose from two exciting specialisation areas: **Data Engineering** or **Generative AI**
- ▶ **Earn professional certifications** from industry leaders such as Alteryx, Google, IBM, Nvidia and Singapore Computer Society
- ▶ Unlock new opportunities for your career and further studies with a **Second Major in Business**
- ▶ Kickstart your degree with the **NP-University Pathway** and earn credits towards your degree while still in poly

^{*}Formerly known as Diploma in Data Science

WHAT THE COURSE IS ABOUT

With every click, like, and share, data is being created and collected. There's never been a greater demand for data science professionals to help businesses derive insights, drive traffic and boost profits. If you want to make your mark in the big data industry, the Diploma in Applied AI & Analytics (AAA) is the course for you!

Learning for the Future Economy

Master data science fundamentals, key statistical concepts, and data visualisation techniques. These skills will set you up for success as a data analyst, junior data scientist, associate data engineer, or associate business analyst.

Exposure to Reputable Enterprise Platforms

Hone programming and analytical skills essential for managing AI projects by working with leading enterprise platforms including Salesforce, Tableau, SAP, and Alteryx.

Specialise in Emerging Areas

Gain an edge with one of these specialisations from your second year:

• Data Engineering

Co-developed by industry partners including Alteryx, Denodo, and Snowflake, this specialisation offers in-depth training in data pipelines, data virtualisation and data wrangling.

• Generative AI

Dive into cutting-edge generative AI tools and techniques, including deep learning, diffusion models, large language models, and more. Build, evaluate, and deploy generative AI systems across various applications, such as text and image generation through hands-on projects and lab sessions.

Double Major

Get a competitive edge by pursuing a Second Major in Business*, delivered by NP's esteemed School of Business & Accountancy! This dual qualification will unlock new opportunities for your career and further studies.

NP-University Pathway

Fast-track your university journey with our pathways to SMU and SUTD and pursue university modules when in NP! Through the NP-SMU Pathway, gain credit exemptions for SMU's Information Systems, Computing Science and Software Engineering programmes. Meanwhile, the Poly SUTD Scholars Programme allows you to explore humanities and science modules that count towards your degree at SUTD.

Experiential Learning

Boost your workplace readiness with a one-year Industry Kickstart Programme. Engage in industry-driven data science projects, explore emerging trends, and apply machine learning techniques in real-world data workflows.

You will also benefit from internships, workshops, field trips, and industry mentorship. Plus, put your skills to the test in national-level competitions like the PolyFintech100 Hackathon.

Industry Certifications

Gain a head start with professional certifications such as:

- Alteryx Core Designer
- Associate Certificate in AI Ethics & Governance by Singapore Computer Society
- Nvidia's Certificate of Competency on Building LLM Applications With Prompt Engineering
- Nvidia's Certificate of Competency on Getting Started with Deep Learning
- Salesforce's Lightning Experience Reports & Dashboards Specialist Superbadge

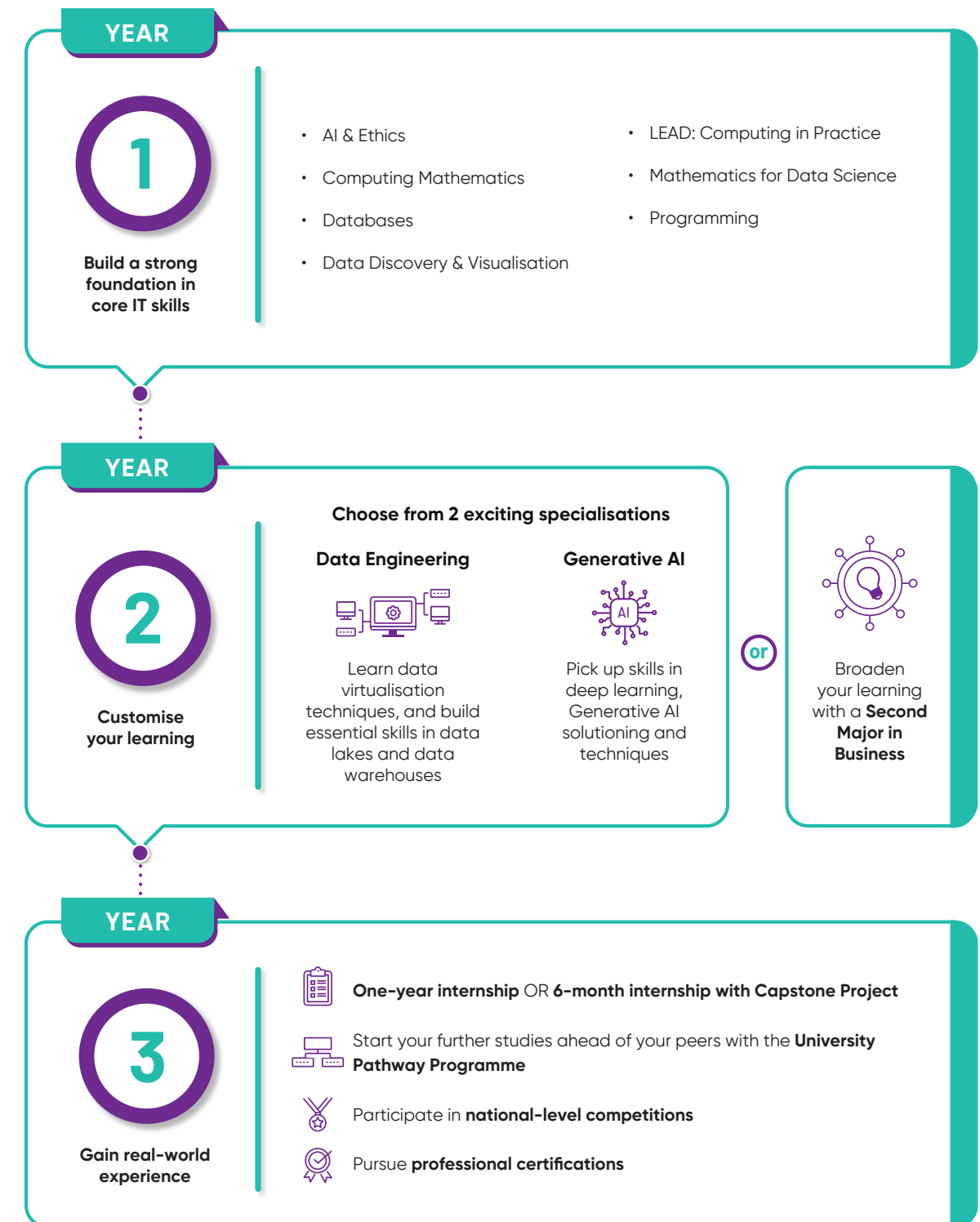


PARTNERING GLOBAL TECH SOLUTIONS FIRM NCS GROUP

More than 20 third-year Data Science* students received mentorship from data and AI engineering experts from NCS Group as they worked on real-world data analytics projects.

*Renamed the Diploma in Applied AI & Analytics

OVERVIEW OF YOUR AAA JOURNEY



* For selected students.

WHAT YOU WILL LEARN

YEAR 1

- AI & Ethics
- Computing Mathematics
- Databases
- Data Discovery & Visualisation
- LEAD: Computing in Practice
- Mathematics for Data Science
- Programming Fundamentals
- Programming II
- Health & Wellness[^]
- Innovation Made Possible[^]
- Confident Communication: Find Your Voice (VOICE)[^]
- English Language Express^{^*}

YEAR 2

- Agile DataOps
- Intelligent Enterprise Systems
- Data Wrangling
- Emerging Trends in Data Science
- Fundamentals for IT Professionals II & III
- Machine Learning I & II
- Three elective modules
- World Issues: A Singapore Perspective[^]

Second Major in Business

- Economics
- Finance & Accounting for Business
- Global Business
- Marketing

[^] Critical Core modules account for 13 credit units of the diploma curriculum. They include modules in communication, innovation and world issues, as well as an interdisciplinary project. By bringing students from diverse diplomas together, the interdisciplinary project fosters collaboration to explore and propose solutions for real-world problems. NP aims to develop students to be agile and self-directed learners, ready for the future workplace.

* The Multidisciplinary Capstone is a 12 credit-unit module designed to build cross-disciplinary knowledge and skills by developing a solution to an industry challenge. Students will be exempted from Project ID: Connecting the Dots and Capstone modules.

^{^*} For selected students.

You will get to work on an industry-driven project, a technopreneurship-enterprise project, or an IT-related project with a local or overseas organisation.

+ You will need to complete 3 prescribed electives to graduate with a specialisation.

% General track electives are subject to availability

YEAR 3

- Six-month internship with one of the following:
 - 4 elective modules
 - Capstone Project + 2 elective modules
 - University Pathway Programme OR One-year Internship[#]
- Project ID: Connecting the Dots[^] OR Multidisciplinary Capstone^{*}

Elective Modules

Generative AI Specialisation⁺

- Deep Learning
- Generative AI Tools & Techniques
- Generative AI Solutioning

Data Engineering Specialisation⁺

- Distributed Data Pipelines
- Data Virtualisation
- Data Lake and Data Warehouse

General Track[%]

- AI Tools & Techniques for Cybersecurity
- Artificial Intelligence Concepts and Techniques
- Blockchain
- Capstone Project
- Cloud Databases
- Cloud Architecture and Technologies
- Customer Experience Management
- Designing User Experience
- Digital Transformation
- Emerging AI Trends in Cybersecurity
- Financial Ecosystem
- Infocomm Sales & Marketing Strategies
- Machine & Deep Learning Applications for Cybersecurity
- Mobile Applications Development
- Modern Artificial Intelligence
- Reinforcement Learning

Second Major in Business

- Foundations of Law
- Corporate Finance
- Develop a Business
- People & Culture
- Integrated Marketing Communication

To keep our curriculum current and robust, diploma modules are subject to change over the three years. Please visit our website for latest updates.

FURTHER STUDIES

Receive advanced standing when you apply for related degree programmes at universities both locally and abroad. These include:

- Nanyang Technological University
- National University of Singapore
- Singapore Institute of Technology
- Singapore Management University
- Singapore University of Social Sciences
- Singapore University of Technology and Design

You can also look forward to pursuing a specialist diploma in an analytics-related field and other advanced diploma courses.



Alec Ong
Class of 2024

The recipient of the Lee Kuan Yew Award, Ngee Ann Polytechnic Outstanding Achievement Award and IMDA Gold Medal & Alteryx Prize is pursuing a double degree in Information Systems and Business Management with a major in Innovation & Entrepreneurship at SMU



Anettejoy Yeo
Class of 2024

Pursuing a Bachelor of Science with Honours in Applied Computing with a specialisation in Fintech at SIT



Gwyneth Yeo
Class of 2024

Pursuing a double degree in Accountancy & Data Science and Artificial Intelligence at NTU



Pranav Vijitharan
Class of 2025

The recipient of the IMDA Gold Medal and Alteryx Prize will be pursuing a degree in Computing Science with a minor in Mathematics at NUS



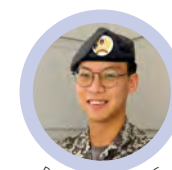
Tristan Sim
Class of 2025

The recipient of the UOB Silver Medal Prize will be pursuing a degree in Renaissance Engineering under the Renaissance Engineering Programme Scholarship at NTU

CAREER

As Singapore strives to become a global hub for AI development and deployment, demand for professionals who possess skills in areas such as data extraction, data wrangling, machine learning and deep learning techniques will increase. Graduates can look forward to careers in roles such as:

- Artificial Intelligence Engineer
- Associate Business Analyst
- Associate Data Engineer
- Data Analyst
- Data Engineer



Bryan Lee
Class of 2024

The recipient of the SAF Polytechnic Sponsorship (MDES) is with the Digital and Intelligence Service as Military Expert 4 (ME4) Apprentice. He is currently pursuing a Bachelor of Science in Business Analytics at SUSS

Entry Requirements

Aggregate Type ELR2B2-C

To be eligible for consideration, candidates must have the following GCE 'O' Level examination (or equivalent) results.

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English Language	1-7
Additional Mathematics/Mathematics	1-6
Any one of the 2nd group of Relevant Subjects for the ELR2B2-C Aggregate Type	1-6

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For students with other qualifications, please refer to the NP website for the entry requirements and admissions exercise period.

Candidates with severe vision deficiency may encounter difficulties meeting the course requirements and expectations.

CONTACT US

For the most up-to-date information on NP's Diploma in Applied AI & Analytics, log on to www.np.edu.sg/aaa



Get latest updates on course



N94

Diploma in Cybersecurity & Digital Forensics Revamped

- Get ahead with in-demand skills at the only poly offering specialisations in **AI for Cybersecurity**, **Cloud Security** and **Operational Technology Cybersecurity** New!
- Go on a **one-year internship** at renowned organisations or pursue **MINDEF's Polytechnic Cyber Work-Learn Scheme** to build deeper skills and networks
- Boost your portfolio with up to **8 industry-recognised certifications** such as Security+, Certified Ethical Hacker, and Cisco Certified Network Associate
- Kick-start your degree with the **NP-University Pathway** and earn credits towards your degree while still in poly

WHAT THE COURSE IS ABOUT

As a digital warrior, you're ready to join the fight against cybercrime. With the Diploma in Cybersecurity & Digital Forensics (CSF), you will play a crucial role in keeping data, applications, networks, and systems safe.

Be Industry-ready

Learn with cutting-edge technologies and an industry-driven curriculum curated with leading partners, ensuring you stay at the forefront of the cybercrime battle. You will gain practical expertise in:

- Windows & Linux server security
- Cybersecurity operations
- Threat intelligence
- Network security
- Digital forensics
- Malware analysis
- Ethical hacking
- Web application pen-testing

Learning Beyond the Classroom

Immerse yourself in realistic cybersecurity scenarios with CSF's hands-on learning approach. You will learn to use industry-recognised platforms and tools such as Cisco's Networking Academy, EC-Council's CodeRed & CyberQ, Group IB's Managed Extended Detection and Response (Managed XDR), and many more. You will also have the chance to work on real-world projects in areas such as bug hunting, penetration testing, and cyber threat intelligence. Plus, hone your cybersecurity skills through masterclasses led by cybersecurity professionals and put your abilities to the test in exciting Capture the Flag competitions.

NP-University Pathway

Fast-track your university journey with our pathways to SMU and SUTD and pursue university modules when in NP! Through the NP-SMU Pathway, gain credit exemptions for SMU's Information Systems, Computing Science and Software Engineering programmes. Meanwhile, the Poly SUTD Scholars Programme allows you to explore humanities and science modules that count towards your degree at SUTD.

Choose Your Pathway

Embark on a tailored learning journey in your third year by selecting from our specialisations:

• AI for Cybersecurity

Dive into the future of cybersecurity with training co-developed by global leader Darktrace. Master advanced machine learning and deep learning applications, and gain expertise in cutting-edge AI tools and techniques designed to protect against modern threats.

• Cloud Security

Deepen your cloud computing skills and explore essential cloud security tools and techniques. Delve into cloud native security practices to safeguard cloud infrastructure against vulnerabilities.

• Operational Technology (OT) Cybersecurity New!

Equip yourself with in-demand, hybrid IT-OT competencies for today's cybersecurity landscape. With modules such as AI in OT Cybersecurity and Industrial Automation, you will be equipped to protect critical infrastructure in fields such as energy, healthcare and transport!

Get a Professional Head Start

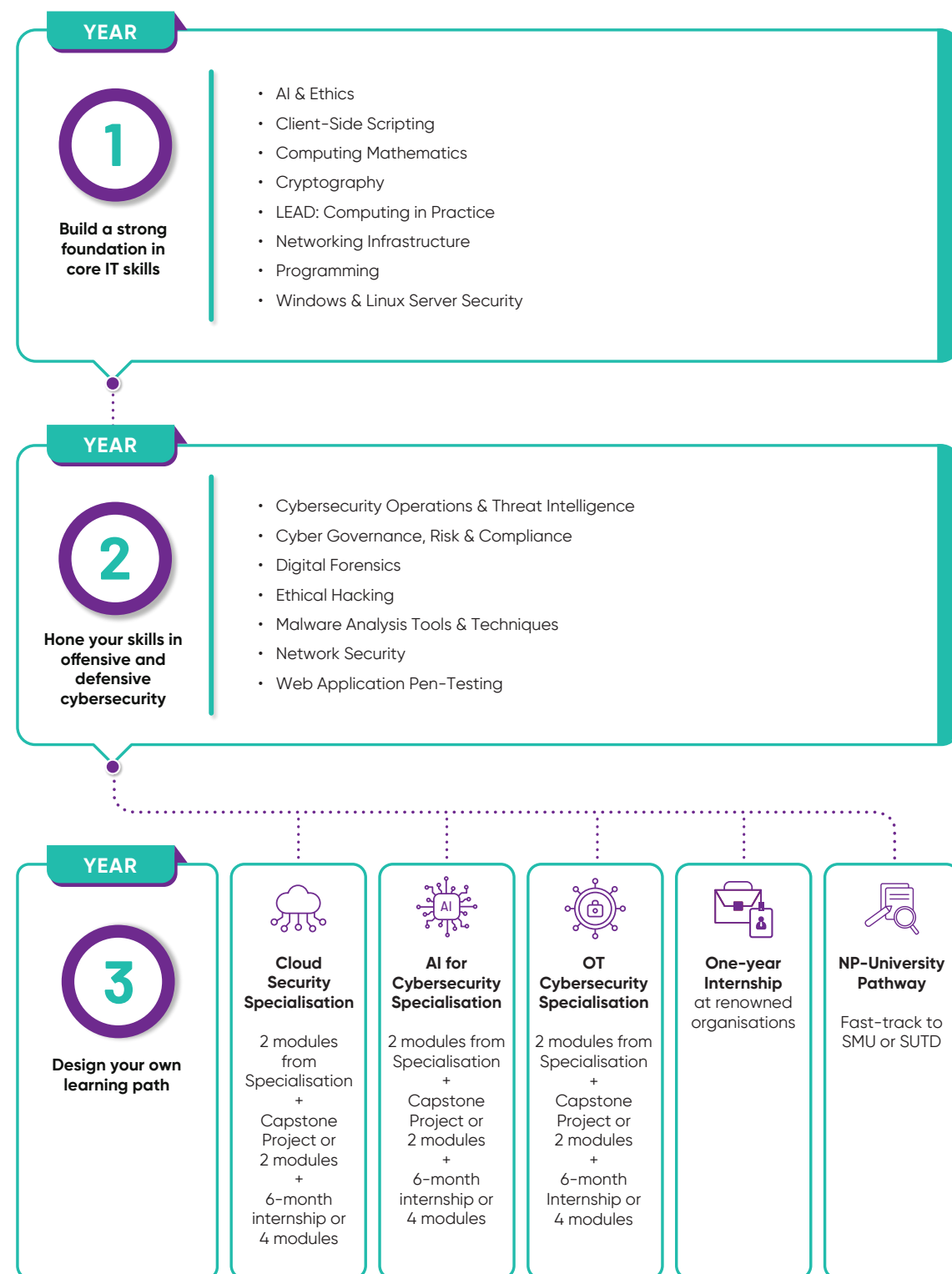
Pursue either a six-month or one-year internship at leading organisations such as A*STAR, Bank of America, CSA, CSIT, DSO, DSTA, Ensign, Group-IB, NTT, Oracle, PwC, Singtel, and ST Engineering to kick-start your cybersecurity career with real-world experience.

Additionally, gain industry-recognised certifications such as Security+, Certified Ethical Hacker, Computer Hacking Forensic Investigator, Cisco Certified Network Associate, Certified Cloud Security Engineer, Certified SOC Analyst, Red Hat Certified System Administrator and Certified Engineer, AWS Certified Cloud Practitioner, and Palo Alto Networks Certified Network Security Administrator.

Partnerships



OVERVIEW OF YOUR CSF JOURNEY



WHAT YOU WILL LEARN

YEAR 1

- AI & Ethics
- Client-Side Scripting
- Computing Mathematics
- Cryptography
- LEAD: Computing in Practice
- Networking Infrastructure
- Programming II
- Windows & Linux Server Security
- Fundamentals for ICT Professionals
- Confident Communication: Find Your Voice (VOICE)[^]
- Health & Wellness[^]
- Innovation Made Possible[^]

YEAR 2

- Cybersecurity Operations & Threat Intelligence
- Cyber Governance, Risk & Compliance
- Digital Forensics
- Ethical Hacking
- Malware Analysis Tools & Techniques
- Network Security
- Web Application Pen-Testing
- One elective module
- ICT Career & Professional Preparation
- World Issues: A Singapore Perspective[^]

[^]Critical Core modules account for 13 credit units of the diploma curriculum. They include modules in communication, innovation and world issues, as well as an interdisciplinary project. By bringing students from diverse diplomas together, the interdisciplinary project fosters collaboration to explore and propose solutions for real-world problems. NP aims to develop students to be agile and self-directed learners, ready for the future workplace.

[#] You will get to work on an industry-driven project, a technopreneurship-enterprise project, or an IT-related project with a local or overseas organisation.

⁺ To graduate with a specialisation, students must successfully complete 3 prescribed electives under that specialisation.

To keep our curriculum current and robust, diploma modules are subject to change over the three years. Please visit our website for latest updates.



YEAR 3

- One elective module from your chosen Specialisation
- Capstone Project OR 2 elective modules
- Six-month Internship OR 4 elective modules
- One-year Internship[#]
- Project ID: Connecting the Dots[^]

Elective Modules

AI for Cybersecurity Specialisation⁺

- AI Tools & Techniques for Cybersecurity
- Emerging AI Trends in Cybersecurity
- Machine & Deep Learning Applications for Cybersecurity

Cloud Security Specialisation⁺

- Cloud Architecture & Technologies
- Cloud Security Tools & Techniques
- Cloud Native Architecture Security

Operational Technology Cybersecurity⁺

- Industrial Automation
- Fundamentals of Operational Technology (OT) Cybersecurity
- AI in OT Cybersecurity

FURTHER STUDIES

Explore related degree programmes locally or overseas. You may enjoy advanced standing when you apply for related courses at universities abroad.

Singapore

- Nanyang Technological University
- National University of Singapore
- Singapore Institute of Technology
- Singapore Management University
- Singapore University of Technology and Design
- Singapore University of Social Science

Australia

- Monash University
- Queensland University of Technology
- University of Adelaide
- University of New South Wales
- University of Queensland
- University of Sydney



Taufiq Mohammed

Class of 2022

Received the Public Service Commission Scholarship (Engineering) to pursue Computer Science at NUS



Elsa Lee

Class of 2023

The recipient of the 2023 Smart Nation Scholarship by the Cyber Security Agency of Singapore is pursuing a degree in Computer Science at SMU



Chua Che Khai

Class of 2023

Received the SAF Merit Scholarship to pursue Information Security at NUS



Sherlena Ngui

Class of 2024

Pursuing a degree in Information Security at NUS

CAREER

The global demand for IT cybersecurity professionals is growing rapidly, and Singapore is building a strong talent pool to meet this need. Our course aligns with the ICT Skills Framework (Cybersecurity Track), preparing you for exciting career paths such as:

- Associate Security Analyst/Engineer
- Cyber Risk Analyst
- Forensic Investigator
- OT Cybersecurity Systems Analyst
- Security Engineer/Executive
- Security Operations Analyst
- Vulnerability Assessment & Penetration Testing Analyst

Entry Requirements

Aggregate Type ELR2B2-C

To be eligible for consideration, candidates must have the following GCE 'O' Level examination (or equivalent) results.

Subject	'O' level Grade
English Language	1-7
Additional Mathematics/Mathematics	1-6
Any one of the 2nd group of Relevant Subjects for the ELR2B2-C Aggregate Type	1-6

Applicants must also fulfil the aggregate computation requirements for the ELR2B2-C Aggregate Type (English Language, 2 relevant subjects and 2 other best subjects) listed at www.np.edu.sg/edu/ELR2B2.pdf.

For students with other qualifications, please refer to the NP website for the entry requirements and admissions exercise period.

Candidates with severe vision deficiency may encounter difficulties meeting the course requirements and expectations.

CONTACT US

For the most up-to-date information on NP's Diploma in Cybersecurity & Digital Forensics, log on to www.np.edu.sg/csf



Get latest updates on course



N54

Diploma in Information Technology Revamped

- **Four exciting specialisations:** Artificial Intelligence Solutioning, Immersive Media, Product Management and Software Engineering
- Deepen skill sets with one-year internship programmes such as the **OCBC-NP Technology Young Talent Programme**
- Earn **professional industry certifications** from renowned organisations such as IBM, AWS and Salesforce
- Unlock new opportunities for your career and further studies with a **Second Major in Business**

WHAT THE COURSE IS ABOUT

Dive into the world of technology with our Diploma in Information Technology (IT). This comprehensive course will equip you with the essential skills and knowledge needed for today's tech-driven industries.

With a strong foundation in programming, networking, databases and operating systems, you will be prepared for further studies or careers in fields such as artificial intelligence, immersive media, product management, and software engineering.

Get the AI Advantage

Gain skills to create and evaluate solutions generated by Artificial Intelligence (AI) tools. You will also build the confidence to effectively integrate AI-generated solutions and innovate with AI.

There will also be platforms for you to experiment with and apply GenAI approaches to push the boundaries of AI-driven systems!

Specialise in Emerging Areas **Revamped**

Design your learning by choosing modules that best match your interests and strengths. Alongside core modules such as AI Ethics and programming, our flexible curriculum structure allows you to specialise in at least one of these four areas:

- Artificial Intelligence Solutioning
- Immersive Media
- Product Management
- Software Engineering

Alternatively, opt for up to ten electives to broaden your skills. With our extensive range of electives, you can explore technologies like cloud computing, computer vision, DevOps, immersive technologies, machine learning, natural language processing, and software architecture.

Double Major

Get a competitive edge by pursuing a Second Major in Business* delivered by NP's esteemed School of Business & Accountancy! This dual qualification will unlock new opportunities for your career and further studies.

NP-University Pathway*

Fast-track your university journey with the NP-SMU University Pathway Programme and the Poly SUTD Scholars Programme! These programmes let you take university modules during your diploma studies. Through the NP-SMU Pathway, gain credit exemptions for SMU's Information Systems, Computing Science and Software Engineering programmes. Meanwhile, the SUTD programme allows you to explore humanities and science modules that count towards your degree at SUTD.

Gain a Professional Head Start

Build your digital portfolio with a capstone project to showcase your skills to potential employers.

Advance your career with additional professional certifications, such as Certified Scrum Master, AWS Certified Cloud Practitioner, Salesforce ADX 201 Certification, and UiPath Certified RPA Associate.

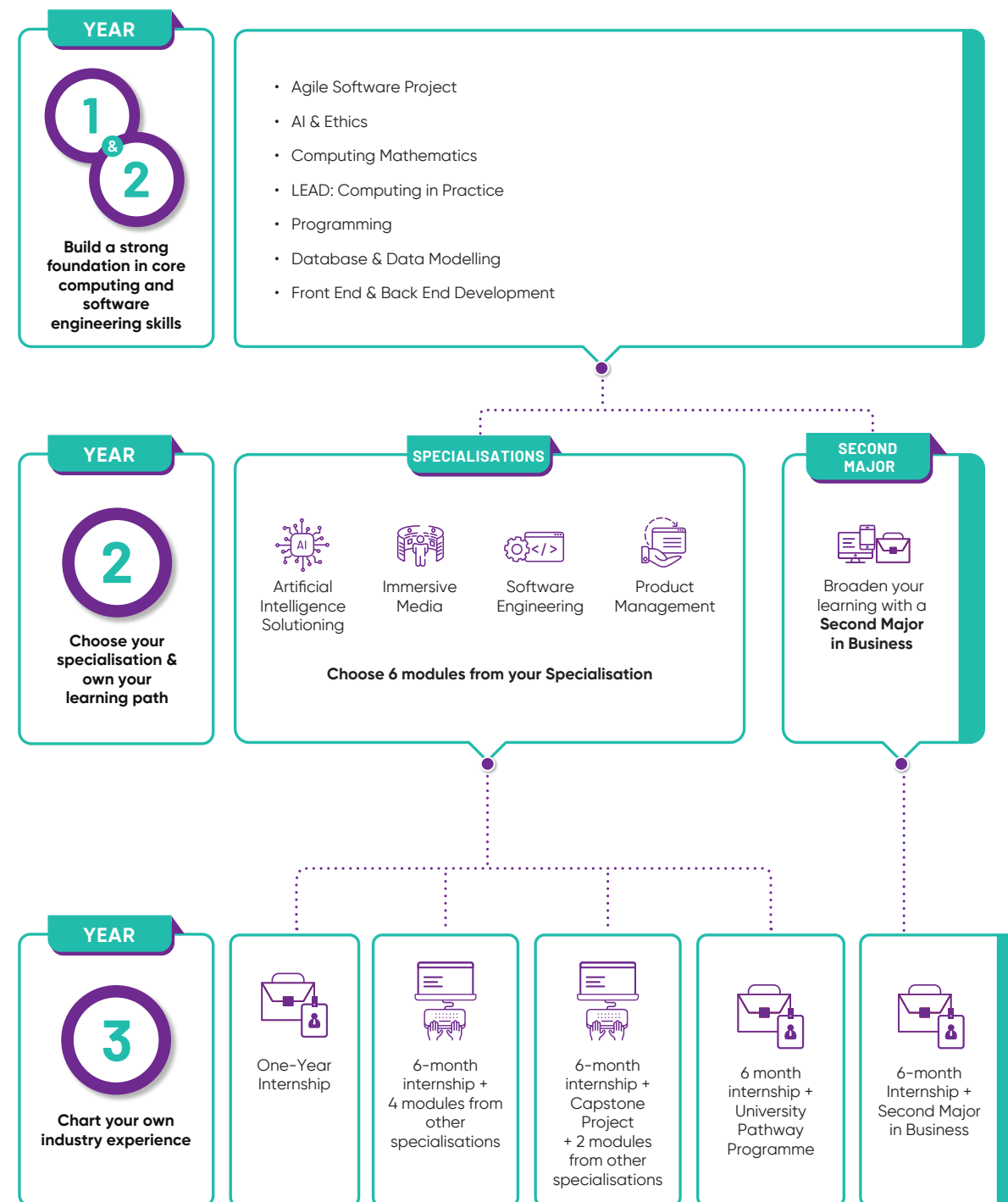
Industry-relevant Learning

Many modules are co-designed and co-delivered with our industry partners such as GovTech, IBM, AWS, NCS Group, and Dell Technologies, ensuring you are well-prepared for the industry.

You can experience innovative programmes that take you out of the classroom. Enrich your learning journey with industry visits, overseas exchange programmes to Shanghai, Shenzhen and Ho Chi Minh City, and get to pursue a one-year internship or tackle real-world problem statements under the guidance of industry mentors.

*For selected students.

OVERVIEW OF YOUR IT JOURNEY



Partnerships



CHOOSE YOUR IT SPECIALISATION

Elective modules under each specialisation



Artificial Intelligence Solutioning

- Cloud Computing
- Computer Vision and Natural Language Processing
- Emerging Technologies in IT
- Modern Artificial Intelligence
- Solution Design and Architecture



Immersive Media

- Business Analysis and Product Management
- Experiential Design
- Immersive Technology Development
- Interactive 3D Experience
- User Experience Design and Prototyping



Product Management

- Business Analysis and Product Management
- Customer Experience Management
- Emerging Technologies in IT
- Tech Business & Innovation Strategy
- User Experience Design and Prototyping



Software Engineering

- Cloud Computing
- Customer Experience Management
- Data Structure & Algorithms
- Solution Design and Architecture
- DevSecOps

WHAT YOU WILL LEARN

YEAR 1

- AI & Ethics
- Back End Development
- Computing Mathematics
- Databases & Data Modelling
- Front End Development
- Fundamentals for ICT Professionals
- LEAD: Computing in Practice
- Programming Fundamentals
- Programming Methodology
- English Language Express[^]



YEAR 2

- Agile Software Project I & II
- Essential Skills for Career Resilience
- World Issues: A Singapore Perspective[^]

Choose one of the following⁺:

- Artificial Intelligence Solutioning Specialisation
- Immersive Media Specialisation
- Product Management Specialisation
- Software Engineering Specialisation

Second Major in Business

- Economics
- Finance & Accounting for Business
- Marketing
- Global Business

YEAR 3

- Six-month Internship with four elective modules OR One-year Internship^{*} OR Six-month Internship + University Pathway Programme
- Project ID: Connecting the Dots[^] OR Multidisciplinary Capstone^{*}

Second Major in Business

- Foundations of Law
- Corporate Finance
- Develop a Business
- People & Culture
- Integrated Marketing Communication

[^] Critical Core modules account for 13 credit units of the diploma curriculum. They include modules in communication, innovation and world issues, as well as an interdisciplinary project. By bringing students from diverse diplomas together, the interdisciplinary project fosters collaboration to explore and propose solutions for real-world problems. NP aims to develop students to be agile and self-directed learners, ready for the future workplace.

^{*} The Multidisciplinary Capstone is a 12 credit-unit module designed to build cross-disciplinary knowledge and skills by developing a solution to an industry challenge. Students will be exempted from Project ID: Connecting the Dots and Capstone modules.

[^] For selected students.

^{*} You will get to work on an industry-driven project, a technopreneurship-enterprise project, or an IT-related project with a local or overseas organisation.

⁺ Choose 6 modules from any specialisation.

To keep our curriculum current and robust, diploma modules are subject to change over the three years. Please visit our website for latest updates.

FURTHER STUDIES

You can receive advanced standing when you apply for related degree programmes at universities both locally and abroad. These include:

Singapore

- Nanyang Technological University
- National University of Singapore
- Singapore Institute of Technology
- Singapore Management University
- Singapore University of Technology and Design

Australia

- Australian National University
- University of Adelaide
- University of Melbourne
- University of New South Wales
- University of Queensland
- University of Western Australia



Yee Yan Hwee
Class of 2021
Pursuing a Bachelor of Computing in Computer Science at NUS under the NUS Merit Scholarship



Jordan Lee
Class of 2022
Pursuing a Bachelor of Computing in Information Systems at NUS



Chua Dong En
Class of 2023
Pursuing a degree in Computer Science under the SMU Merit Scholarship Programme

CAREER

With our course skills aligned to the ICT Skills Framework, you can look forward to pursuing careers in these roles:

- Applications Developer
- Back-End/Front-End Developer
- Channel Sales Executive
- Cloud Engineer
- Customer Experience Manager
- Database Administrator
- Data Analyst
- Data Engineer
- Full Stack Developer
- Infrastructure Executive
- Platform Engineer
- Pre-/Post-Sales Consultant
- Systems Analyst
- Technical Support Executive
- UX/UI Designer



Tan Choon Yan
Class of 2006
Director of Product Management at Mastercard



Esther Loh
Class of 2020
Business Analyst at IBM



Yee Jia Chen
Class of 2024
Apple Global Community Leader and Apple Certified Trainer



SMART NATION AWARD RECIPIENT

"Despite not having an IT background, NP honed my technical skills and gave me opportunities to grow, serve the community, and make an impact through technology. Having received the Lee Hsien Loong Smart Nation Award 2025 and being the President of Overflow, an NP-based Technology Special Interest Group, I aspire to continue using my skills to build solutions that make lives better, and to play a part in shaping Singapore's digital future."

Jeffrey Lee (second from left)
Final-year IT student

Jeffrey and his team created FallSafe, an application that makes use of AI, Cloud Native and Internet of Things to assess the fall risk of seniors.

Source: The Straits Times © SPH Media Limited. Permission required for reproduction.



DELL INNOVATEFEST CHAMPS

MindEase – developed by a team of IT students **Wu Enjia, Amos Goh, Ian Lim, Jeffrey Lee** and **Ethan Chew** – won the polytechnic category at the Dell InnovateFest. Developed with input from MINDS, the team's application aims to address stress and burnout among caregivers of individuals with intellectual disabilities.

Entry Requirements

Aggregate Type ELR2B2-C

To be eligible for consideration, candidates must have the following GCE 'O' Level examination (or equivalent) results.

Subject	'O' level Grade
English Language	1-7
Additional Mathematics/Mathematics	1-6
Any one of the 2nd group of Relevant Subjects for the ELR2B2-C Aggregate Type	1-6

Applicants must also fulfil the aggregate computation requirements for the ELR2B2-C Aggregate Type (English Language, 2 relevant subjects and 2 other best subjects) listed at www.np.edu.sg/docs/ELR2B2.pdf.
For students with other qualifications, please refer to the NP website for the entry requirements and admissions exercise period.
Candidates with severe vision deficiency may encounter difficulties meeting the course requirements and expectations.

CONTACT US

For the most up-to-date information on NP's Diploma in Information Technology, log on to www.np.edu.sg/it

Our Graduates with that

Something XTRA



CREATING INNOVATIVE BUSINESS SOLUTIONS

"My time at NP was a fulfilling journey that paved the way for my career. The challenging yet enriching curriculum not only expanded my knowledge but also played a pivotal role in refining my character."

IMZUMI CHIA

Financial Informatics* graduate, Class of 2023

Imzumi works as a FICO (finance accounting and controlling) consultant for cbs Corporate Business Solutions, APAC. She collaborates with clients to design, build, and deploy SAP-based enterprise resource planning solutions that support their business and organisational goals.

*Renamed the Diploma in Applied AI & Analytics



A FUTURE IN DATA

"The diverse and practical electives in my diploma allowed me to discover new interests and apply what I learned to real-world contexts. Through my Final-Year Project, I got to work with researchers in the healthcare field and saw how data science plays a key role in improving healthcare systems. This exposure broadened my perspective on where I could apply my skills and inspired me to further pursue this path in university."

LEE YEN YI

Data Science* graduate, Class of 2025

A recipient of the A*STAR Science Award, Yen Yi is pursuing a degree in Computer Science at NTU.

* Renamed the Diploma in Applied AI & Analytics



EQUIPPED FOR THE FUTURE

"During my time at ICT, I acquired essential technical skills and gained valuable industry exposure, which have prepared me for a career in cybersecurity. I am eager to apply this knowledge to further my professional growth and make meaningful contributions to the community."

MUHAMMAD ZAIDAN SANI

Information Security & Forensics* graduate, Class of 2021

Zaidan was the Silver Medallist and valedictorian of his cohort, as well as a recipient of the A*STAR Science Award. He is currently pursuing a degree in Computer Science at NUS.

*Renamed the Diploma in Cybersecurity & Digital Forensics



PSC SCHOLAR BUILDING TECH FOR GOOD

"My internship at GovTech was eye-opening as I saw firsthand how building mobile applications such as SingPass and anti-scam app Scamshield can benefit the community. I hope to create solutions that help others."

TAUFIQ MOHAMMED

Information Security & Forensics* graduate, Class of 2022

A recipient of the Public Service Commission Scholarship (Engineering) award, Taufiq will pursue a degree in Computer Science at NUS.

*Renamed the Diploma in Cybersecurity & Digital Forensics



REACHING GREATER HEIGHTS

"IT gave me the freedom and opportunity to experiment, build, and grow. I was hugely impacted by my internship at the Apple Developer Academy in Batam, where I worked with an incredible team to teach app development – often to learners much older than me. Such opportunities sparked my interest in giving back to the community through my love for coding. Since graduating, I've had the privilege of returning to NP to teach, plus inspire students at various institutions like NUS and SUTD, and reaching thousands more around the world through community events, workshops, and talks."

YEE JIA CHEN

Information Technology graduate, Class of 2024

Jia Chen is a community leader dedicated to organising local events and supporting developer communities worldwide. He collaborates closely with Apple to run student events and programmes. Jia Chen is also a two-time Swift Student Challenge winner and an Apple Certified Trainer.



INSPIRING THROUGH TECHNOLOGY

"Polytechnic was the natural choice for me because I really like learning by doing. The IT curriculum has also allowed me to expand on my long-standing love for programming. Participating in a hackathon in my second year with Open Government Products also inspired me to think about harnessing technology for the greater good and consider how technological solutions can reach a wider audience."

ARASH NUR IMANN

Information Technology graduate, Class of 2025

Arash received the Lee Kuan Yew Award and Ngee Ann Polytechnic Outstanding Achievement Award upon graduation and will pursue Computer Science abroad.



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askNP@np.edu.sg

All information is correct at time of printing (Nov 2025)
Printed on environmentally friendly paper