COMPUTING

U+SP
Think bigger with SP

Applied AI & Analytics
Common Infocomm Technology Programme
Infocomm Security Management
Information Technology
Passionate about IT but not sure which course to choose? You might want to consider the newly launched Diploma in Applied AI & Analytics (DAAA).

The DAAA will equip you with the cutting edge skill to harness the power of AI and Analytics in this fast growing industry. To find out more about the DAAA, turn to Pg 4.

In the Agile Solutioning Centre, you will get the opportunity to enhance your portfolio by working on real computing projects. You will work together with our industry partners in an agile fashion to harness technological solutions and make a difference in the community. You will also develop technical competencies and embark on team-based learning. Best of all, you will get to network with like-minded individuals and be part of the exciting and growing IT community.

An IT curriculum that builds strong foundation and deep skills
Lay a strong foundation in coding and learn by building complete end-to-end web-mobile applications. Develop the dexterity to go deep in your chosen field of study, from cyber security, software development and user experience design to AI & data science/digital analytics.

Innovative Teaching Approaches & Learning Spaces
Hone your cyber defence skills through scenario-based simulated cyber-attacks at SP’s Cyber Wargame Centre and work on live projects at our Agile Solutioning Centre.

Immersive Real World Learning
Pit your skills against the best in competitions, join activities to find like-minded individuals and earn industry certifications.

Get real-life work experience through a 22-week internship and develop solutions to real-world problems through SP’s SMART Campus, Data Science and Analytics Centre, Interactive Experience Technology Centre, and more.

Come. Journey with us. Turn your Dreams into Reality!

WHY SOC?

HIGHLIGHT

I CAN REALISE MY DREAMS

You dream of transforming the world into a better place, or making the cyberspace a safer place. You dream of harnessing technology to make a difference in people’s lives. You want to build software applications like Instagram and Carousell to connect communities. You want to create revolutionary AI applications with voice and image recognition features to improve lives. You want to be a cyber-defender.

If these are your dreams, the School of Computing (SoC) can help turn your Dreams into Reality through the following IT diploma programmes:

- Diploma in Applied AI & Analytics (DAAA) (S30)
- Common Infocomm Technology Programme (CITP) (S32)
- Diploma in Infocomm Security Management (DISIM) (S54)
- Diploma in Information Technology (DIT) (S69) with Specialist Elective tracks:
  - Software & Applications specialisation
  - Immersive Simulation Specialist track
  - Software Development Specialist track
  - User Experience (UX) Designer track

You might want to consider the newly launched Diploma in Applied AI & Analytics (DAAA). The DAAA will equip you with the cutting edge skill to harness the power of AI and Analytics in this fast growing industry.

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You will work together with our industry partners in an agile fashion to harness technological solutions and make a difference in the community.

You will also develop technical competencies and embark on team-based learning. Best of all, you will get to network with like-minded individuals and be part of the exciting and growing IT community.

Comes, Journey with us. Turn your Dreams into Reality!
Believe it or not, you interact with a form of AI (Artificial Intelligence) every day! From Siri to Google Home and online chatbots, data analytics and AI make it possible for devices and programmes to respond to us in an almost human-like manner. This is changing how we live, work and communicate. Soon, it will become an integral part of our daily lives. The question is, are you interested to develop the next AI that benefits our world?

If your answer is yes, we’ve designed the Diploma in Applied AI & Analytics just for you!

**Diploma in**

APPLIED AI & ANALYTICS

**(DAAA - S30) - NEW**

*Believe it or not, you interact with a form of AI (Artificial Intelligence) every day! From Siri to Google Home and online chatbots, data analytics and AI make it possible for devices and programmes to respond to us in an almost human-like manner. This is changing how we live, work and communicate. Soon, it will become an integral part of our daily lives. The question is, are you interested to develop the next AI that benefits our world?*

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**ENTRY REQUIREMENTS**

Range of Net 2020 JAE ELR2B2: 3 to 10

Aggregate Type: ELR2B2-C

**SUBJECT GRADE**

- English Language: 1 - 7
- Mathematics (Elementary / Additional): 1 - 6
- Any two other subjects: 1 - 6

Note: To be eligible for admission, an applicant must have also sat for one of the following subjects:
- Biology
- Biotechnology
- Chemistry
- Computing / Computer Studies
- Creative 3D Animation
- Design & Technology
- Electronics / Fundamentals of Electronics
- Food & Nutrition
- Physics
- Science (Chemistry, Biology)
- Science (Physics, Biology)
- Science (Physics, Chemistry)

**SCHOLARSHIPS**

- Centre for Strategic Infocomm Technologies (CSIT) Diploma Scholarship
- Defence Science and Technology Agency (DSTA) Polytechnic Scholarship
- Industry Preparation for Pre-graduate (iPREP) Programme
- Singapore Digital (SGiD) Scholarship (Polytechnic)
- Singapore Polytechnic (SP) Scholarship

**WE KNOW YOU WANT TO...**

- **BE Part of the Revolution:** AI and data analytics are the key underpinning technologies for transforming every industry, including manufacturing, healthcare, and more!
- **Empower Your Future:** Gain a competitive edge pursuing your passion as a data analyst, data engineer or an AI practitioner.
- **Never Be Bored:** Take on new challenges and projects that are closely related to solving real-world problems.

**COURSE HIGHLIGHTS**

- Centre for Strategic Infocomm Technologies (CSIT) Diploma Scholarship
- Defence Science and Technology Agency (DSTA) Polytechnic Scholarship
- Industry Preparation for Pre-graduate (iPREP) Programme
- Singapore Digital (SGiD) Scholarship (Polytechnic)
- Singapore Polytechnic (SP) Scholarship

**Scholarships**

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- Science (Chemistry, Biology)
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- Science (Physics, Chemistry)
COURSE MODULES

The Diploma in Applied AI & Analytics is a three-year full-time programme.

FIRST YEAR
- Back-End Web Development
- Communicating for Project (Proposal)
- Effectiveness
- Critical and Analytical Thinking
- Data Visualisation
- Education and Career Guidance 1
- Front-End Web Development
- Fundamentals of Computing
- Data Engineering
- Data Structures & Algorithm (AI)

SECOND YEAR
- AI & Machine Learning
- Communicating for Project
- Effectiveness
- Data Engineering
- Data Visualisation
- Deep Learning
- DevOps & Automation for AI
- Education and Career Guidance 2
- Elective 1
- Elective 2
- Fundamentals of Programming
- Mathematics
- Narrative Thinking
- Programming for Data Science
- Statistics for Data Science

THIRD YEAR
- Applied AI and Analytics Project
- Elective 3
- Infocomm Professional Seminar
- Internship Programme
- Full Stack Web Development Project
- Mathematics for AI
- Practical AI
- Social Innovation Project

Electives
The SP elective framework offers students options to pursue their passion and / or meet different career needs, and is an integral part of the holistic education we seek to provide to our students. The learning experiences of this elective framework help students in their development as self-directed, versatile, life-long learners, which are essential in today’s volatile and changing societal as well as occupational landscape.

For a list of electives offered, please visit www.sp.edu.sg

CAREER OPTIONS

Ready to shape the world with new technologies? Look forward to an exciting career as:
- Data Analyst
- Business Intelligence Specialist
- Software Developer
- Application Developer
- Data Scientist
- Data Engineer

The program is designed with a useful and relevant curriculum that imparts students with important skills to contribute to the workforce in the AI and Analytics domain. We would be interested in collaborations with Singapore Polytechnic in the form of providing industry projects, internships and to engage them with sharing sessions on industry practices.

Audrey Kuah
Managing Director
Dentsu Aegis Network Global Data Innovation Centre

Laurence Liew
Director, AI Industry Innovation
AI Singapore

FURTHER STUDIES

Quench your thirst for knowledge at local or foreign universities! Our graduates may receive module exemptions or advanced standings with relevant courses offered locally at NUS, NTU, SIT, SUSS, SUTD and SMU.

The curriculum in the Diploma in Applied AI & Analytics covers skills areas relevant to AI & Analytics domain. Students graduating are potential hires for the roles of Junior AI engineers.

Laurence Liew
Director, AI Industry Innovation
AI Singapore
Are you passionate about Information Technology (IT) but undecided about which IT course to take? The Common Infocomm Technology Programme (CITP) is designed to help you make an informed choice. At the end of Year 1 Semester 1, you will be able to make an informed choice in selecting one of the IT courses that you wish to pursue:

- S30 Diploma in Applied AI & Analytics (DAAA)
- S69 Diploma in Information Technology (DIT)
- S54 Diploma in Infocomm Security Management (DISM)

**ENTRY REQUIREMENTS**

Range of Net 2020 JAE ELR2B2: 5 to 12
Aggregate Type: ELR2B2-C

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>GRADE</th>
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<tbody>
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<td>English Language</td>
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- Biology
- Biotechnology
- Chemistry
- Computing / Computer Studies
- Creative 3D Animation
- Design & Technology
- Electronics / Fundamentals of Electronics
- Food & Nutrition
- Physics
- Science (Chemistry, Biology)
- Science (Physics, Biology)
- Science (Physics, Chemistry)

**COURSE HIGHLIGHTS**

The programme offers:
- fundamental IT modules to give you an insight into what interests you.
- common foundational modules and comprehensive exposure to various areas of IT through the Infocomm Professional Seminars.
- curriculum which includes IT career guidance to prepare graduates for upcoming trend in the IT sectors.
**COURSE MODULES**

The common first semester will lay the foundation for programming and computing for the Diploma in Applied AI & Analytics (DAAA), Diploma in Infocomm Security Management (DISM) and the Diploma in Information Technology (DIT) courses.

This programme will allow you to have more time to explore your interests in the first semester and make an informed decision on preferred IT-related course to pursue later.

Through the Education & Career Guidance activities, you will then learn to develop your portfolios and gain insights into the respective job roles and industries in the IT sectors.

**FIRST YEAR (SEMESTER 1)**

- Communicating for Project Proposal
- Effectiveness
- Critical & Analytical Thinking
- Education and Career Guidance 1
- Front-End Web Development
- Fundamentals of Programming
- Fundamentals of Computing
- Mathematics

**YEAR 1**

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<th>SEMESTER 1</th>
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</tr>
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<td>Diploma in Infocomm Technology Programme (CITP) (S32)</td>
<td>Select one of the IT courses at the end of Semester 1</td>
<td></td>
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</table>

**YEAR 2**

**YEAR 3**

**CAREER OPTIONS**

To be streamed to either DAAA, DISM or DIT course after one semester in SP.

**FURTHER STUDIES**

You can pursue an IT degree programme at a local or foreign university.

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The CITP allowed me to explore the diverse of fields of cyber security and data science. This allowed me to make a more informed decision on which full-time course to pick.

Lim Chuan Hao
CITP student, Class of 2019
Anonymous hackers are attempting to gain access to classified information on a computer system and you need to stop them from carrying out this malicious attack. At the Cyber Wargame Centre, we create realistic scenarios to prepare you for the REAL cyberthreats!

Technology is ever present in our everyday activities, the need to guard against cyber threats is more critical than ever before.

DIPLOMA IN INFOCOMM SECURITY MANAGEMENT (DISM - S54)

SCHOLARSHIPS
- Centre for Strategic Infocomm Technologies (CSIT) Diploma Scholarship
- Defence Science and Technology Agency (DSTA) Polytechnic Scholarship
- Industry Preparation for Pre-graduate (iPREP) Programme
- Infocomm Polytechnic (iPoly) Scholarship
- Singapore Polytechnic (SP) Scholarship
- Singtel Cyber Cadet Scholarship
- DSO National Laboratories (DSO) Diploma Scholarship

COURSE HIGHLIGHTS
- SIMULATED-PRACTICE LEARNING ENVIRONMENT
- COMPREHENSIVE CURRICULUM
- PROFESSIONAL CERTIFICATION

ENTRY REQUIREMENTS
Range of Net 2020 JAE ELR2B2: 4 to 8
Aggregate Type: ELR2B2-C

SUBJECT GRADE
- English Language: 1 - 7
- Mathematics (Elementary / Additional): 1 - 6
- Any two other subjects: 1 - 6

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- Biotechnology
- Chemistry
- Computing / Computer Studies
- Creative 3D Animation
- Design & Technology
- Electronics / Fundamentals of Electronics
- Food & Nutrition
- Physics
- Science (Chemistry, Biology)
- Science (Physics, Biology)
- Science (Physics, Chemistry)
The Diploma in Infocomm Security Management is a three-year full-time programme.

**FIRST YEAR**
- Applied Cryptography
- Communicating for Project (Proposal)
- Effectiveness
- Computer Law and Investigation
- Critical & Analytical Thinking
- Education and Career Guidance 1
- Front-End Web Development
- Fundamentals of Computing
- Fundamentals of Programming
- Infocomm Security
- Linux Administration and Security
- Narrative Thinking
- Network Fundamentals
- Mathematics
- Programming in Security

**SECOND YEAR**
- Back-End Web Development
- Communicating for Professional Effectiveness
- Digital Forensics and Investigation
- Education and Career Guidance 2
- Elective 1
- Elective 2
- Ethical Hacking and Defences
- Secure Coding
- Securing Microsoft Windows
- Security Policy and Incident Management
- Social Innovation Project

**THIRD YEAR**
- Elective 3
- Infocomm Professional Seminar
- Infocomm Project Development and Management
- Internship Programme
- Malware Reverse Engineering
- Elective 3
- Infocomm Professional Seminar
- InfoSec Project Development and Management
- Internship Programme
- Malware Reverse Engineering

**Electives**
The SP elective framework offers students options to pursue their passion and / or meet different career needs, and is an integral part of the holistic education we seek to provide to our students. The learning experiences of this elective framework help students in their development as self-directed, versatile, life-long learners, which are essential in today’s volatile and changing societal as well as occupational landscape.

For a list of electives offered, please visit www.sp.edu.sg

**CAREER OPTIONS**
- Associate Security Analyst / Consultant
- Incident Investigator / Forensic Investigator
- Security / Systems Administrator
- Cyber Risk Analyst
- IT Auditor
- Security Engineer
- Applications Developer with IT security solution providers, auditing and consultancy firms, banking and financial institutions, public and private organisations that require IT security services.

**FURTHER STUDIES**
You can pursue further studies at local or foreign universities, with the latter granting direct entry into the second or third year of related undergraduate programmes in countries such as Australia, United Kingdom and the United States.

Daniel Ho
Lee Kuan Yew Award winner, DISM Gold Medallist, Class of 2016, and currently a Public Service Commission scholarship holder
Information Technology (IT) is the driving force behind many digital transformations we see and use today, including the Smart Nation vision in Singapore. There continues to be a strong demand for IT professionals in Software Development and User Experience (UX) design, and in Immersive Simulation Technologies such as Augmented and Virtual Reality.

DIPLOMA IN INFORMATION TECHNOLOGY (DIT - S69)

CREATE A SMART NATION WITH US

Information Technology (IT) is the driving force behind many digital transformations we see and use today, including the Smart Nation vision in Singapore. There continues to be a strong demand for IT professionals in Software Development and User Experience (UX) design, and in Immersive Simulation Technologies such as Augmented and Virtual Reality.

SCHOLARSHIPS

- Centre for Strategic Infocomm Technologies (CSIT) Diploma Scholarship
- Defence Science and Technology Agency (DSTA) Polytechnic Scholarship
- Infocomm Polytechnic (IPoly) Scholarship
- Industry Preparation for Pre-graduate (IPREP) Programme
- Singapore Polytechnic (SP) Scholarship

ENTRY REQUIREMENTS

Range of Net 2020 JAE ELR2B2: 4 to 14
Aggregate Type: ELR2B2-C

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FLEXIBLE COURSE OF STUDY

Choose any one of the three most in-demand areas of IT to focus on:
- Software & Applications - Software Development Specialist
- Software & Applications - Immersive Simulation Specialist
- Software & Applications - User Experience (UX) Design

AWESOME OPPORTUNITIES

We open doors for you to work with leading industry companies such as Microsoft, Accenture, GoTo, CrimsonLogic, KPMG, Singtel, and Ubisoft Singapore through internship opportunities and project collaborations.

GET A HEAD START FOR LOCAL UNIVERSITIES

DIT offers an Advanced Math programme that will prepare you for your university programme. Moreover, you can pursue an IT related degree in both local and overseas universities with advanced standing.

IMMERSIVE EXPERIENCE TECHNOLOGY CENTRE (IXTC)

Students immerse themselves in real world learning by doing real customer projects with our industry partners in the focal areas of Solution Development and Immersive Media.

COURSE HIGHLIGHTS

- FLEXIBLE COURSE OF STUDY
- AWESOME OPPORTUNITIES
- GET A HEAD START FOR LOCAL UNIVERSITIES
- IMMERSIVE EXPERIENCE TECHNOLOGY CENTRE (IXTC)
All full-time diploma students are required to take two compulsory Education and Career Guidance Modules in SP. Students will take Education and Career Guidance 1 - Personal Development (30 hours) in their first year. In their second year, students will take Education and Career Guidance 2 - Career Development (15 hours).

All students are required to take one compulsory Sports for Life (SFL) module for one semester in their first year in SP. In their second and third year, students may sign up for SFL module as an optional module.

I’ve always had a passion for IT, and being able to study the subject I love made the journey fun and engaging. In DIT, I was taught solid skills and was mentored by lecturers who went above and beyond. My achievements are not my own, but a culmination of the guidance and work put in by the lecturers.

Azeem Arshad Vasanwala
Class of 2017, Teoh Sien Olive Gold Medallist Institution Award, IMDA Gold Medallist, Microsoft Imagine Cup 2016 Winner, Singapore Computer Society IT Youth 2017 Finalist Award

COURSE MODULES
The Diploma in Information Technology is a three-year full-time programme.

FURTHER STUDIES
Quench your thirst for knowledge at local or foreign universities! Our graduates may receive module exemptions or advanced standings with relevant courses offered locally at NUS, NTU, SIT, SUTD and SMU. You can also gain direct entry into the second or third year of study in relevant undergraduate degree courses in countries including Australia, and the United Kingdom.
A former Technology Consultant (Information Security) at PricewaterhouseCoopers LLP, Daniel now performs penetration testing for Centurion Information Security Pte Ltd. Having attained a staggering seven professional certifications by the end of his final year at SP, Daniel continued to excel at the Queensland University of Technology, Australia, where he was placed on the Dean’s List for Excellent Academic Performance and was awarded the Science and Engineering Faculty International Merit Scholarship.

MOHAMAD DANIEL BIN HAMID
Senior Consultant, Centurion Information Security Pte Ltd

Edward is part of the team which is responsible for the training and development of Home Team officers as well as Home Team partner agencies in cyber security competencies. He is a Certified Ethical Hacker (CEH) and his final year project team clinched the SPInnovex Gold Award in Singapore Polytechnic. Edward graduated with a Bachelor of Engineering (Computer Science) at Nanyang Technological University in 2015. He co-authored a paper, on his NTU project that was awarded the title of Interesting FYP, published at the 6th Annual International Conference on Computer Science Education: Innovation & Technology (CSEIT 2015).

HENG AIK KWANG EDWARD
Senior Executive, Centre of Cyber Security Studies, Home Team Academy

Emil works on the Critical Information Infrastructure Protection (CIIP) cybersecurity governance and practice programme in IMDA — ensuring the cybersecurity and assurance of Singapore’s Infocomm Media (ICM) sector. He received the National Infocomm Scholarship (NIS) in 2009 to pursue a Bachelor of Science in Computer Science and Master of Science in Information Security at Royal Holloway, University of London.

Emil is the founder and lead of Division Zero (Div0), a cybersecurity community group, and a Chapter Lead of Singapore’s Honeynet Project, an international non-profit research organisation dedicated to improving Internet security. In recognition of his contributions to Singapore’s cybersecurity ecosystem, he was awarded the Cybersecurity Awards 2018 (Professional category).

EMIL TAN
Assistant Manager, Infocomm Media Development Authority (IMDA)

Yi Bing is part of the offensive security team ensuring a high level of security for DBS Bank applications through penetration tests and application security assessments. She is a certified ThinkSECURE Organisational Systems Security Analyst and also holds a Certificate of Completion in Mobile Device Forensics. She has completed the Earn and Learn Programme, obtaining a Specialist Diploma in Cyber Security.

CHIN YI BING
Cyber Security Executive, DBS Bank

DISM CLASS OF 2009
As a Technical Director, Ikhwan manages workflow, server back end structure and multi-platform toolsets. He has released five games across different consoles and platforms: Tobe’s Vertical Adventure, Tobe’s Hookshot Adventure, Tiny Dice Dungeon, The Last Vikings, and most recently, ArmaGallant, on the PlayStation Store. During his time in SP, Ikhwan was a Microsoft StudentPartner and was awarded the Director’s Honour Roll three times.

MUHAMMAD IKHWAN BIN ZAINAL
Technical Director, Rock Nano Global Pte Ltd
DIT CLASS OF 2009

As a Partner Technology Manager, Xiaoran helps partners overcome scaling and operational challenges and project-manage the partner onboarding implementation. He obtained a Bachelor Degree in Computing, Information Technology (with Distinction) from the University of Wollongong, Australia in July 2012.

CHANG XIAORAN
Partner Technology Manager, Google Asia Pacific
DIT CLASS OF 2010

Junjie manages a design team and was part of the Assassin’s Creed Designer Team that shipped high-quality AAA Games such as Assassin’s Creed 3, AC: Syndicate, AC: Black Flag and AC: Rogue to 20 million players worldwide.

As Associate Lead Designer, he sets the benchmark of in-game level layout and reviews the works of other designers at different stages of the game development.

LIN JUNJIE
Lead Designer, Ubisoft Singapore
DIT CLASS OF 2007

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LIN JUNJIE
Lead Designer, Ubisoft Singapore
DIT CLASS OF 2007
Singapore Polytechnic
500 Dover Road Singapore 139651

For more information regarding entry requirements and course information, please contact:

**School of Computing**
Tel: (65) 6775 1133
Fax: (65) 6779 7912
Email: contactus@sp.edu.sg
Website: www.sp.edu.sg/soc

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- fb.com/singaporepolytechnic
- @singaporepoly
- youtube.com/singaporepolytechnic

The polytechnic reserves the right to alter the information in this publication. Information is correct as of April 2020.