Introduction

MSc Cybersecurity Program@NTU

Program Directors:
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Introduction & Welcome Everyone

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Introduction & Welcome Everyone

• We are happy to announce our upcoming 3\textsuperscript{nd} batch NTU MSc Program in Cybersecurity this coming Aug 2024!

• It’s a joint program offered by NTU 2 great schools:
  • SCSE (School of Computer Science & Engineering)
  • SPMS (School of Physical & Mathematical Sciences)

• Instructors come from these TWO schools and from industry
Strengths of this Program

• We have sourced for the most important modules to be taught by instructors from SCSE & SPMS, and also from industry experts

• You have chance to learn not only core cyber-skills BUT ALSO hot topics like blockchains & Cryptocurrency!

• We have received letters of support for our program from
  • PAYPAL
  • ALIBABA

• Practical 3-4.5 months Industrial attachment after coursework or Project*
Minimum Requirement to graduate

• Program has 13 modules, excluding IA
• Pass 10 modules (4 core, 6 electives) OR
• Pass 8 modules (4 core, 4 electives) plus capstone
• Capstone – 2 different ways to fulfill it
  • Pass an Industrial Attachment (IA) program with external companies (after clearing coursework requirements) OR
  • Project with faculty in NTU
• Candidature Period (flexible duration)
  • 1-2 years for FT students
  • 2-4 years for PT students
4 CORE MODULES (compulsory)

1. Computer Security
2. Application Security
3. Cryptography
4. Security & Risks Management
<table>
<thead>
<tr>
<th>Network Security</th>
<th>Malware</th>
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<tbody>
<tr>
<td>Cyber Physical Systems Security</td>
<td>Forensics</td>
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<tr>
<td>Software Security</td>
<td>Blockchains &amp; Cryptocurrency</td>
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<tr>
<td>Security Monitoring &amp; Threat detection</td>
<td>Privacy Preserving Technologies &amp; Security in AI</td>
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<tr>
<td>Topics in Crypto &amp; Cyber Security</td>
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Industrial Attachment (FT students)

• Students will undergo industrial attachment with companies or NTU Corp Labs upon completing their coursework requirement
• Length 3-4.5 months depending on company’s requirement
• Some students are sponsored by their companies. They will be given choices to do IA with their own company should their company want them to return to serve.
• We will give a list of companies that are participating in our IA program to students after they are admitted to program.
• Students can also source for opportunities directly from companies
Industrial Attachment or Project (PT students)

• PT students who need to return to work for their companies can do their IA with their company (must be in cybersecurity areas).

• PT students who need to serve their companies after coursework will have to do Project with our faculty during their studies.

• Idea behind is fastest period to graduate (including attachment or project) will remain roughly the same, 15 months for both IA students and Project students, & also students who opt not to do capstone.
Assessment

• Assessment for each course will be based on a final exam and/or continuous assessment and/or mini project during the conduct of the course.

• The industrial attachment will be assessed by our faculty members with inputs from the industrial collaborating partners.
Admission Requirements

• A good bachelor’s degree in a quantitative programme, such as mathematics, statistics, engineering, computer science & sciences.

• Should you already have any strengths (experience) in cybersecurity, You SHOULD highlight them in your application (eg participate in hacking competition, worked in cyber areas in companies etc)

• Some programming skills (such as Python, Java or C) impt

• A good TOEFL (iBT≥100, PBT≥600, CBT≥250 or IELTS≥6.5) score is required for graduates of universities with non-English medium of instruction.
Our Aug Program, in 2024

- We will follow fully NTU academic calendar for undergrads.
- Aug – Early Dec (13 weeks term plus mid term 1 week break)
- Mid Dec – Early Jan (Semester break)
- Jan2025 – Mid May 2025 (13 weeks plus mid term 1 week break)
- Mid May 2025 -Aug 2025 (IA Program will begin for students who have completed & passed coursework requirements)
- IA will last 3-4.5 months depending on company preference
Our Fees, Aug 2024 intake, *Excluding* GST

<table>
<thead>
<tr>
<th>Category</th>
<th>Fee</th>
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<tbody>
<tr>
<td>Spore Citizens</td>
<td>$36,500</td>
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<tr>
<td>Permanent residents</td>
<td>$43,500</td>
</tr>
<tr>
<td>International Students</td>
<td>$54,300</td>
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Our Intake

- 1st intake – 33
- 2nd intake – 39
- **Good news:** This aug intake - we are expanding
  - We are aiming for 60 this aug
Scholarships for bright students (SC, PR)

- SG DIGITAL SCHOLARSHIP (POSTGRADUATE)-SC Only

- National Cybersecurity Postgraduate Scholarship (NCPS)-SC & PR

- Many other companies & even banks (just google)