GRADUATE DIPLOMA IN SYSTEMS ANALYSIS

The Graduate Diploma in Systems Analysis is designed for graduates who need to equip themselves with the latest IT knowledge and skills, and wish to advance their career in their current field. It also provides an opportunity for non-IT graduates to craft a new career path in the IT industry.

In this 13-month FULL-TIME programme, students are taught how to build IT solutions through lectures, workshops, laboratory sessions, projects and industrial attachments. Students learn and practise techniques to gather user requirements, and systematically analyse and design feasible solutions. They then proceed to code, test and implement these solutions. The numerous projects in this programme give students many opportunities for hands-on practices to deliver IT solutions on client/server, Internet/intranet and wireless platforms.

The programme emphasises building and enhancing essential soft skills such as project management qualities, independent/co-operative teamwork and effective team leadership techniques. Students are assigned to work in project teams and learn on-the-job.

By the end of the programme, students have a good grasp of Object-Oriented analysis and design based on the Rational Unified Process (RUP) and the Unified Modelling Language (UML). They are also introduced to Object-Oriented Programming using C# .Net and the Visual Studio IDE, Java SE, JSP (Java Server Script), and EJBs (Enterprise Java Beans) on Java EE. In addition, students gain proficiency in building internet solutions using ASP.NET and Web Services, and mobile solutions on the Android and iOS platforms.

www.iss.nus.edu.sg
Curriculum
The curriculum is frequently reviewed and fine-tuned to ensure that the skills taught are those that are crucial to the IT industry. This is done in consultation with industry partners.

Project Management
- IT Roles & Responsibilities
- Business Communication
- Project Planning & Control
- Change Management & Control

Methodology
- Application Development
  - Life Cycle (Object-Oriented) with UML & RUP

Technology
- Distributed Computing Infrastructure

Team System
Students are assigned to study and work in teams to cultivate co-operative teamwork, leadership and project management qualities.

Projects
- CF Application Development Project
- Cyber Shopping Mall with ASP.NET & Web Services
- Web Project on Java EE
- Mobile Project

Specialisation Tracks
- Mobile Solution Development
  - Wireless Technology & Mobile Application Development using Android and iOS platforms

Programme
- Object-Oriented Programming with C# & Java
- User Interface Development with Visual Studio.NET & C#
- Developing Enterprise Systems with Java
- Basic Java Programming
- Advanced Java Programming
- Developing Enterprise Systems with Java EE
- Web-based Java EE Application Development
- SQL Programming

Industrial Attachment (IA) Programme
During the 5-month attachment programme, students are assigned to an external organisation, and get to apply the techniques and skills learned in an actual working environment. Where possible, sponsored students will be assigned to their sponsoring organisation.

- Students are organised into project teams with each team working independently to deliver a working solution at the end of the timeframe. Each team organises its own internal structure taking on roles of project leader, team members etc.

- They work together and apply the project management, analysis, design, business communications and programming skills learnt during the programme.

- Through the attachment programme, students are sent to work in a real-life setting. They need to adapt quickly to the working culture of the organisation, pick up new technical skills and domain knowledge if required, propose feasible IT solutions, and develop and deliver the solution to the satisfaction of the organisation.

Internet Project with ASP.NET and Web Services
This project requires students to design and develop a virtual shopping cart to demonstrate their ability to create a user-friendly and effective Web application using Internet programming techniques. In addition, they are required to enhance the product presentation using appropriate multimedia technology.

Web Project with Java EE
Students are required to apply their knowledge gained from their Java programming modules to code a Java EE-based application. They have to design the system to show how the application processes each request. At the end of the project, they present their application and submit a design report. During the demonstration, they have to prove that the system meets all required functionalities and caters for error handling.

Mobile Project
Students are required to design mobile applications that take account of the strengths and weaknesses of wireless technology using both iOS and Android platforms. At the end of the project, they have to justify their design and demonstrate the functionalities of their system.

Graduate Diploma in Systems Analysis
Graduate Programme
Future Careers

Many of our graduates are prominent senior IT professionals. They are also employed as:

- IT Auditor
- IT Security Administrator
- Systems Analyst
- Systems Programmer
- IT Consultant
- IT Marketing Executive

Master’s Programme

Graduates from this programme are fully eligible to take up Master's degree programmes with NUS and other universities, and typically upgrade their skills after a few years in the IT industry to continue to remain relevant.

Admission Requirements

Applicants must possess the following pre-requisites:

- Bachelor degree from a recognised university
- Proficiency in the English Language (written and spoken)*
- Some work experience is preferred

All applicants are required to take an aptitude test. Shortlisted applicants will also need to attend an interview. Foreigners are welcome to apply.

*English Language Proficiency

Applicants whose native tongue AND medium of university instruction is not in English should submit the TOEFL (Test of English as a Foreign Language) or IELTS (International English Language Testing System) score as evidence of their proficiency in the English language.

The following minimum TOEFL score is required:
- 85 for the internet-based test (with a minimum score of 22 for the writing section); or
- 580 for the paper-based test; or
- 237 for the computer-based test

TOEFL institution code for ISS is 2432. Alternatively, if you have an IELTS result, a score of 6.0 is required.

Fees & Loans

Tuition Fee

A substantial tuition subsidy from the Government of Singapore is administered by the Ministry of Education (MOE) and is offered to all admitted students up to the maximum programme duration. Students need not apply for the MOE Subsidy if they are eligible. Visit www.isss.nus.edu.sg/ghelpa to view the fees for the academic year.

Application

All applicants are required to apply online for our graduate programme. Applicants will be notified of the Aptitude test arrangements by email after the closing date.

<table>
<thead>
<tr>
<th>Intake</th>
<th>Online Application (open date)</th>
<th>Closing Date for receipt of application</th>
</tr>
</thead>
<tbody>
<tr>
<td>February</td>
<td>1st July</td>
<td>15th October</td>
</tr>
<tr>
<td>August</td>
<td>2nd January</td>
<td>15th April</td>
</tr>
</tbody>
</table>

Application Fee

The following non-refundable application fee is payable.

Application Fee: S$20 (inclusive of prevailing GST)

Please send your proof of payment together with your application package. Please note that an application without the application fee payment will not be processed. Please send the application form along with the supporting documents and submit them personally to:

Institute of Systems Science
National University of Singapore
25 Kent Ridge Crescent (off Alexandra Rd)
Singapore 119260

For further enquiries, please email us at issdpisa@nus.edu.sg or call +65 6516 2093. Queries can also be faxed to +65 6778 2571.

Visit www.isss.nus.edu.sg/ghelpa for more information.
Modes of Payment

You may choose to pay by one of the following modes of payment:

Local Students

a. Online Payment by Credit/Debit Cards
b. Complete the relevant Application Fee Form and send it together with a crossed cheque made payable to "National University of Singapore". Please write your name, mailing address and programme applied for, on the reverse side of the cheque.
c. Complete the relevant Application Fee Form and make payment by NETS at the Student Service Centre (located at Level 1, Yusof Ishak House) during operating hours.
d. Complete the relevant Application Fee Form and make payment by Cash/NETS/Credit Card at the Institute of Systems Science (Administration Office 2nd Floor) during office hours 8:30am - 5:00pm from Monday to Friday.

International Students

a. Online Payment by Credit Cards
b. Complete the relevant Application Fee Form and send it together with a bank draft (drawn on a bank in Singapore in Singapore dollars) made payable to "National University of Singapore". Please write your name, mailing address and programme applied for, on the reverse side of the bank draft.
c. If you are unable to obtain a bank draft in Singapore dollar, you may submit a bank draft in US dollar of USD18.50 (for 5% fee) or USD37 (for 5% fee) respectively. The amount in USD includes the bank charge which will be incurred by the University to process the bank draft.

Application fee forms can be downloaded via www.isss.nus.edu.sg/dipsa

About ISS

The Institute of Systems Science (ISS) is established in 1981 as an academic unit within the National University of Singapore (NUS). It is a speciality institute providing graduate education and professional development courses to develop Infocomm leaders and drive business and organisation innovation.

The institute is accredited by leading international and local accreditation and certification bodies to deliver programmes that lead to recognised certifications and qualifications. ISS is an appointed Continuing Education and Training (CET) Centre for the National Infocomm Competency Framework (NICF). It also conducts research, organises IT management and technology update seminars and provides consulting services to the industry. The Singapore e-Government Leadership Centre in ISS helps government leaders innovate and transform through e-Government education, and consulting and research.

Over 75,000 Infocomm professionals and 4,300 corporate customers have benefitted from the programmes and services that ISS offers.

Why study at ISS

ISS offers a suite of high quality practice-based programmes to help Infocomm professionals innovate over the course of their careers and develop the competencies to implement methodologies, processes and best practices to achieve consistent and improved business results.

To create and maintain a business-sensitive IT capability, it requires more than technology management skills. It calls for an understanding of business, technology, and people and how they can be orchestrated andagopically for competitive advantage.


W: www.isss.nus.edu.sg
E: ISS.NUS
T: @ISSNUS
L: sg.linkedin.com/in/issnus/
Fees & Loans

Successful applicants (accepted into the programme) are required to pay the following fees:

<table>
<thead>
<tr>
<th>Service Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual Tuition Fee</td>
<td></td>
</tr>
<tr>
<td>Singapore Citizens</td>
<td>$7,590</td>
</tr>
<tr>
<td>Permanent Residents</td>
<td>$10,200</td>
</tr>
<tr>
<td>International Students</td>
<td>$13,970 a*</td>
</tr>
<tr>
<td>* with service obligation</td>
<td>$23,310 b*</td>
</tr>
<tr>
<td>Application Fee</td>
<td>$20</td>
</tr>
<tr>
<td>Registration Fee</td>
<td>$33.50</td>
</tr>
<tr>
<td>Other Fees (Miscellaneous and Health &amp; Insurance)</td>
<td>$642.34</td>
</tr>
</tbody>
</table>

Note: All fees are in Singapore dollars and are inclusive of GST. Fees are correct at time of printing and are subject to changes without prior notice.

Please refer to www.iss.nus.edu.sg/diplsa for latest fees.

Explanatory notes below on service obligation applicable only to International Students

"As a self-financing student (i.e. paying tuition fees on your own), please note that you are eligible to apply for MOE Service Obligation Scheme, provided you have not previously enjoyed MOE subsidy in a graduate programme where the degree is of the same or lower level than what you have been offered here.

If your application for service obligation is successful, the tuition fees applicable to you will be as shown above under (a). You will however be charged the full fees (b) on registration day and adjustments to the fees will be made if your application for service obligation is successful.

The service obligation will require you to work in Singapore-based companies for 3 years upon graduation. Singapore-based companies refer to local and international companies that have a base in Singapore that is registered with the Accounting and Corporate Regulatory Authority (ACRA) as well as companies of such local and international companies registered with ACRA that are based overseas.

Mandatory Miscellaneous Fees

Miscellaneous fees are typically levied on items that are either not covered or partially covered by tuition fee and grant/subsidy. All students, whether registered on a full-time or part-time basis, are charged the mandatory miscellaneous fees. These are due at the same time as the tuition fees. These fees help defray the costs of student activity, health services and insurance, campus shuttle service and other services.

Tuition Fee Loan

Students who require financing for their tuition fees may apply for a loan under the Tuition Fee Loan Scheme (TFL). The maximum loan quantum is 90% of the tuition fees payable by Singapore Citizens for the same course.

Scan the QR code to find out more about tuition fee loan scheme.

For further enquiries, please email us at issdiplsa@nus.edu.sg or call us at +65 6516 2093. Queries can also be faxed to +65 6778 2571.

Visit www.nus.edu.sg/diplsa for more information.