



## **MASTER PROGRAM DATA SCIENCE CYBER SECURITY**

*EMPOWERING THE NEXT GENERATION  
OF CYBER DEFENDERS WITH DATA ANALYTICS SKILLS*

As businesses transform their business into digital enterprises, cyber security attacks become the largest threats to businesses and organizations worldwide. With the increasing amount of data and emerging technologies, it is essential to develop a strong defense against cyber threats. The Data Science Cyber Security Master Program is designed to equip students with the necessary skills to become cyber security professionals who can defend against these threats.



### WHY IS IT IMPORTANT?

The curriculum covers topics such as network security, ethical hacking, data science, cryptography, and incident handling skills. Students will learn through in class capstone projects how to analyze data sets to identify potential threats, design and implement security measures, and use machine learning algorithms to detect and detect/prevent cyber-attacks. The program also covers legal and ethical considerations in cyber security, including privacy laws and regulations.

Graduates of the program will be well-equipped to work in a variety of industries, including finance, retail, healthcare, telecommunication, manufacturing, energy and government. The Data Science Cyber Security Master Program is an excellent choice for students who are interested in pursuing a career in cyber security as it provides a strong foundation in data science and cyber security, making them valuable assets to any organization that needs to protect their data and systems from cyber threats.

### DISTINGUISH STRENGTH

- Award winning Cyber Security Lecturers and Researchers
- Industry capstone projects to bring real contributions to the workplace
- World class research projects with industry collaboration research including National Cyber and Crypto Agency (Badan Siber dan Sandi Negara), Indonesia HoneyNet Project, Academy CSIRT and others.
- Research topics include: Deception Technology, Malware Analysis, Threat Detection, Threat Intelligence, Vulnerability Analysis, Digital Forensics, Cloud Security, etc.
- Security Operation Centre for handling real national security incidents
- EC Council Special Discounts for cyber security professional certifications

### KEY NATIONAL/INTERNATIONAL MENTIONS

- National HoneyNet-based threat map portal (<https://honey.net.bssn.go.id>)
- HoneyNet Threat Sharing Platform (Multi Year Research Grants Recipients from The Information Society Innovation Fund - ISIF Asia)
- 2022 ISIF Asia Award Recipients (<https://isif.asia/2022-awardees/>)

## DATA SCIENCE CYBER SECURITY

- Network Security
- Ethical Hacking
- Incident Handling & Digital Forensics
- Web & Mobile Application Security
- Enterprise Architecture & IT Strategic Planning
- Data Science & Analytics
- Research Methodology
- Data Science: Special Topics
- Cyber Law & Computer Ethics
- Internet of Things & Operation Technology
- IT & Cyber Governance
- Cryptography & Blockchain Technology
- Applied Knowledge Management
- IT Project Management, Risk Management & Disaster Recovery
- Thesis

\*with Hybrid Learning Method

## FACULTY MEMBER HIGHLIGHT

Competent lecturers as mentors for the research, such as (not limited to):

- Dr. Eka Budiarto, S.T., M.Sc. in fields of data science and analytics, machine learning, artificial intelligence
- Dr. Charles Lim, B.Sc., M.Sc., CCSE, CTIA, CHFI, EDRP, ECSA, ECSP, ECIH, CEH, CEI in fields of cyber security, threat hunting, threat intelligence
- Dr. Ir. Moh. A. Amin Soetomo, M.Sc. in fields of IT governance, IT strategic planning, IT risk management, cyber resilience, data management and governance
- Dr. Ir. Heru Purnomo Ipung, M.Eng. in fields of IT enterprise architecture, digital transformation strategy, IT valuation, data modeling, IoT applications
- Kalpin Erlangga Silaen, S.Si., M.Kom., CISSP, CEH, ECIH, ECSA, CHFI. Chief Technology Officer, PT Royal Audrey Megah (Layer Speed, web hosting & IT solution services), Senior Information Security consultant
- Or potentially with other lectures from other departments (Mechatronics and industrial engineering), other faculties (Life Science and Technology, Business and Communication) upon initial agreement and arrangement.



Partnership with:



## THE PROCEDURES:

1. Fill-out the registration through <https://join.sgu.ac.id/master>
2. Pay the registration fee IDR 500.000
3. Documents submitting & Interview
4. Pay the confirmation fee before the due date from Letter of Acceptance

## ADMISSION DOCUMENT

1. 1 Copy of Bachelor's Degree Certificate
2. 1 Copy of Academic Transcript
3. 2 photographs of 4×6cm (in color, with red as background).
4. 1 copy of Birth Certificate (Akta Kelahiran).
5. 1 copy of Family Certificate (Kartu Keluarga).
6. 1 copy of Family Certificate (Kartu Keluarga - Orang tua)
7. 1 copy of NISN or senior high school certificate
8. Copy of ID Card/Passport/KITAS
9. Copy of Any Other professional certificate
10. Curriculum Vitae.
11. 2 Reference Letter
12. Foreign Candidate/overseas graduate: legalized the certificate through the Department of National Education
13. Foreign Candidate: Stay/Work Permit.
14. Statement of Agreement stamped Rp. 10,000,-.
15. New Student Form

## STUDY FEE

### Payment scheme:

<b>ADMISSION FEE</b>	500.000 IDR
<b>CONFIRMATION FEE</b>	2.500.000 IDR
<b>1<sup>st</sup> SEMESTER FEE</b>	22.000.000 IDR
<b>2<sup>nd</sup> SEMESTER FEE</b>	22.000.000 IDR
<b>3<sup>rd</sup> SEMESTER FEE</b>	22.000.000 IDR
<b>TOTAL</b>	69.000.000 IDR

**Tuition fee includes\*:** Lunch, snack, coffee/tea during coursework

**Tuition fee excludes:** Repetition exams, certification, books and graduation ceremony

**Note:** Payment for each semester has to be made at the latest 2 (two) weeks before next semester begins.

\* Scholarship scheme is available after fulfilling SGU terms and conditions

\* Tuition installment available with SGU terms and conditions.

Contact Us:

## SWISS GERMAN UNIVERSITY

The Prominence Tower Alam Sutera

Jl. Jalur Sutera Bar. No.Kav 15, Kota Tangerang, Banten 15143

Email : [graduateschool@sgu.ac.id](mailto:graduateschool@sgu.ac.id)

Hotline : 0811 8010 600

Instagram : [@sgugraduateschool](https://www.instagram.com/sgugraduateschool)

LinkedIn : [Swiss German University / sgugraduateschool](https://www.linkedin.com/company/swiss-german-university/)