# MASTER OF SCIENCE IN
# INFORMATION TECHNOLOGY
## (COURSEWORK)

**2024 Intake NOW OPEN**
**January | May | September**

(N/0611/7/0017) (11/28) (MQA/PA 16943)

**FAST COMPLETION**
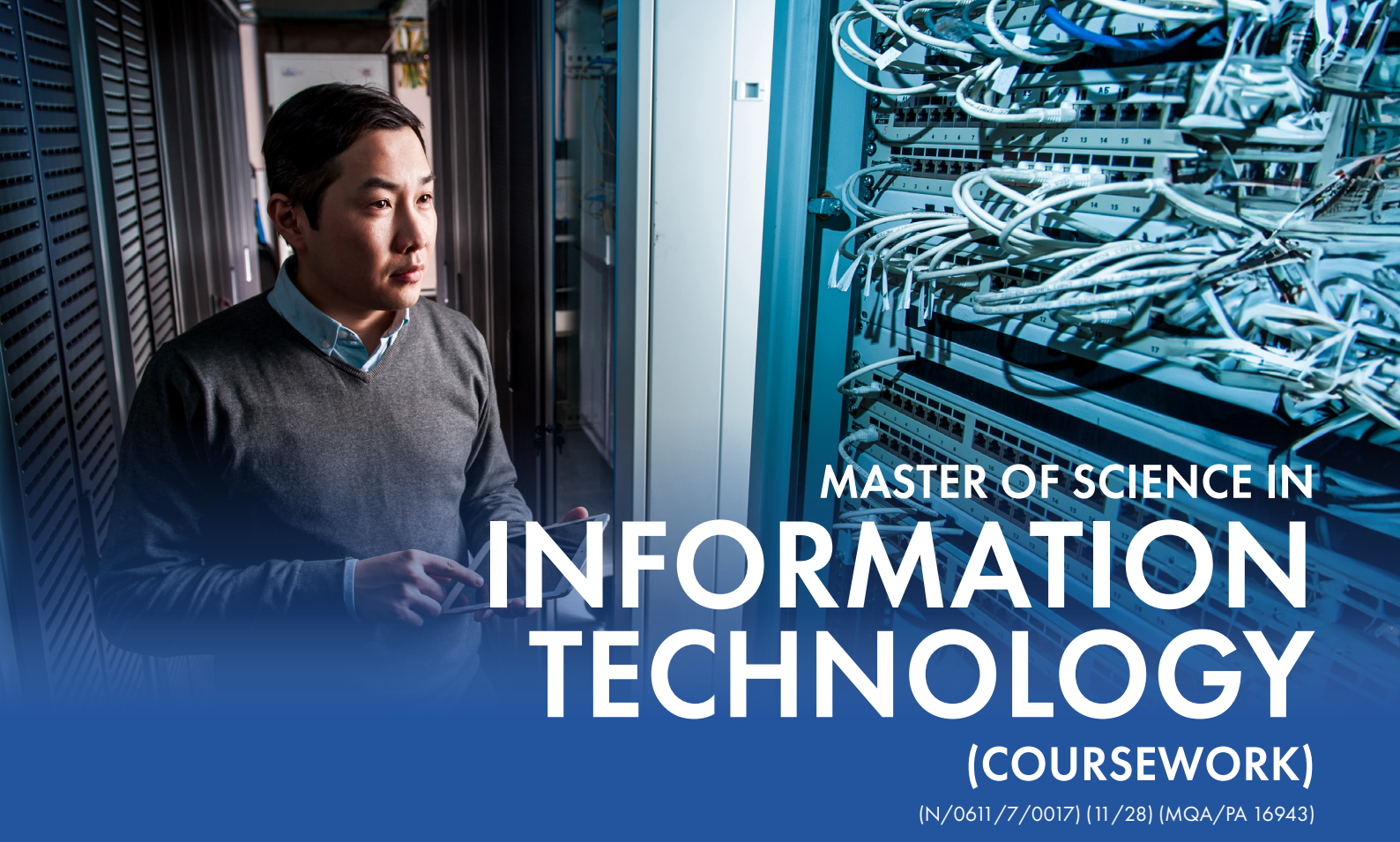# 12 MONTHS

**INDUSTRY RELEVANT**
# 7 FOCUS AREAS

# SEGi UNIVERSITY

SEGi was established in 1977 as Systematic College in the heart of Kuala Lumpur offering professional qualifications. Since its founding over four decades ago, SEGi has undergone significant growth, strengthening the quality of its wide range of programmes from foundation to doctorate level.

It is one of the most established private higher education institutions in Malaysia with its flagship campus located in Kota Damansara and four other campuses in Subang Jaya, Kuala Lumpur, Penang, and Kuching. Currently, SEGi has a population of 20,000 local and international students across its campuses.

SEGi is recognised as "The first Malaysian University that earned 5 Stars for Prioritising Society's Needs in Malaysia" by QS Stars, an international evaluation system for universities based on auditing.

# MASTER OF SCIENCE IN
# INFORMATION TECHNOLOGY
## (COURSEWORK)

(N/0611/7/0017) (11/28) (MQA/PA 16943)

The Master of Science in Information Technology (Coursework) programme at SEGi University equips students with the specialised academic know-how and career-focused skills vital for thriving in the Information Technology (IT) landscape across all sectors worldwide. (With an emphasis on emerging IT trends such as Artificial Intelligence, Data Analytics, IoT, and Blockchain). This programme enhances technical proficiency and prepares students for advanced real-world challenges.

Additionally, it aligns with current job trends and the rising need for ICT specialists to drive digital transformation across all sectors worldwide. Pursuing a Master's in IT not only sets you apart in a competitive job market but also opens doors to higher-level positions and leadership roles. SEGi University's programme offers specialised knowledge in areas like cybersecurity, data science, artificial intelligence, and software engineering, equipping you to adapt to industry changes and stay at the forefront of innovation.

## Career Opportunities

- Chief Technology Officer
- Chief Systems Designer
- Chief Software Architect
- Software Quality Assurance Specialist
- Senior Programmer
- Senior Research Analyst

## Duration

1 year (3 semesters)

## Programme Modules

### Semester 1
- Research Methodology in Computing
- Internet of Things
- IT Strategy
- Data Management
- Decision Support System

### Semester 2
- IT Project Management
- Big Data Analysis
- Business Intelligent Systems
- Digital Transformation
- Information Security Management

### Semester 3
- Project

## Entry requirements

- A Bachelor's degree in Computing or related fields with a minimum CGPA of 2.50, OR
- A Bachelor's degree in Computing fields or related fields or equivalent with a minimum CGPA of 2.00, can be accepted subject to a minimum of 5 years of working experience in the relevant fields and rigorous internal assessment.
- Candidates without a qualification in the related fields or relevant working experience must undergo appropriate prerequisite courses determined by the university and meet the minimum CGPA of 2.00 can be accepted subject to a minimum of 5 years working experience in the relevant fields and rigorous internal assessment.
- Other qualifications equivalent to a bachelor's degree (Level 6, MQF) in fields of Computing or related fields recognised by the Government of Malaysia must undergo appropriate prerequisite courses determined by the university.

# THRUST INTO THE DIGITALISE FUTURE
# AT THE TOP

## ARTIFICIAL INTELLIGENCE (AI)

▶ **Business Intelligent Systems**

In the Business Intelligent Systems subject, students will be train to possess a comprehensive AI skill set, including research, IoT, data management, project management, big data analysis, and more. They will emerge as well-rounded AI experts, ready to thrive in high-demand industries.

AI Industry is valued at
### RM 1.36 Trillion
in 2022

AI Industry is
expected to grow by
### RM 330 Billion
By 2027

## BIG DATA

▶ **Data Management**

In the Data Management subject, students will be educated with an advanced skill set in Big Data analytics, encompassing research, IoT, data management, and more, positioning them to excel in a range of data-driven careers and contribute to the ever-expanding Big Data landscape.

Big Data and Analytics
industry is valued at
### RM 1.13 Trillion
in 2022

Big Data and Analytics industry
### Increased by 62%
from 2018

## BLOCKCHAIN

▶ **Information Security Management**

The Information Security Management subject will equip students with a comprehensive skill set in blockchain technology, including the study of cryptocurrency, smart contracts, blockchain applications, and more. This knowledge equips them to lead innovation in a variety of industries, harnessing the power of blockchain to solve real-world challenges and ensuring the security of digital ecosystems.

Blockchain industry
is expected to reach
### RM 697.64 Billion
by 2029

Currently, there are more than
### 85 Million
users worldwide

## CYBERSECURITY CONCERNS

▶ **Information Security Management**

The Information Security Management subject will acquire a comprehensive cybersecurity skill set, including courses in digital security, threat detection, network protection, and more. This knowledge positions them to excel in the ever-evolving field of cybersecurity, addressing the growing concerns and protecting digital assets effectively.

Malaysia needs
### 27,000
### Cybersecurity Experts
by 2025

## DIGITAL TRANSFORMATION

▶ **Digital Transformation**

Within the framework of the Digital Transformation subject, students will acquire a comprehensive skill set in digital transformation, covering areas such as digital strategy, e-commerce, online marketing, and more. This knowledge positions them to spearhead and manage digital initiatives, driving organisations to compete effectively in the evolving digital landscape.

The Digital Economy is expected to
### Generate
### 500,000 jobs
by 2025

The Digital Economy is anticipated to
### Contribute 25.5%
to the country's GDP by 2025

## DATA SCIENCE

▶ **Big Data Analysis**

In the Big Data Analysis subject, students will gain hands-on real-world experience, enriching the data skills and unlocking a world of future career opportunities. It also empowers students to navigate the dynamic realm of data science, opening doors to a wealth of possibilities. Students will possess a comprehensive data science skill set, encompassing research, IoT, data management, project management, big data analysis, and more.

Big data analytics
is expected to reach
### RM 7.9 Billion
by 2025

## INTERNET OF THINGS (IOT)

▶ **Internet of Things**

Within the IoT subject, students will develop the skills needed to make well-informed decisions in the digital realm, drive innovation, manage complex IT projects, analyse vast datasets, and create business intelligence systems. Additionally, they will explore the transformative power of digitalisation and master the art of information security management.

The IoT Industry is anticipated to top
### RM 4.8 Trillion
by 2024

### 500 Billion
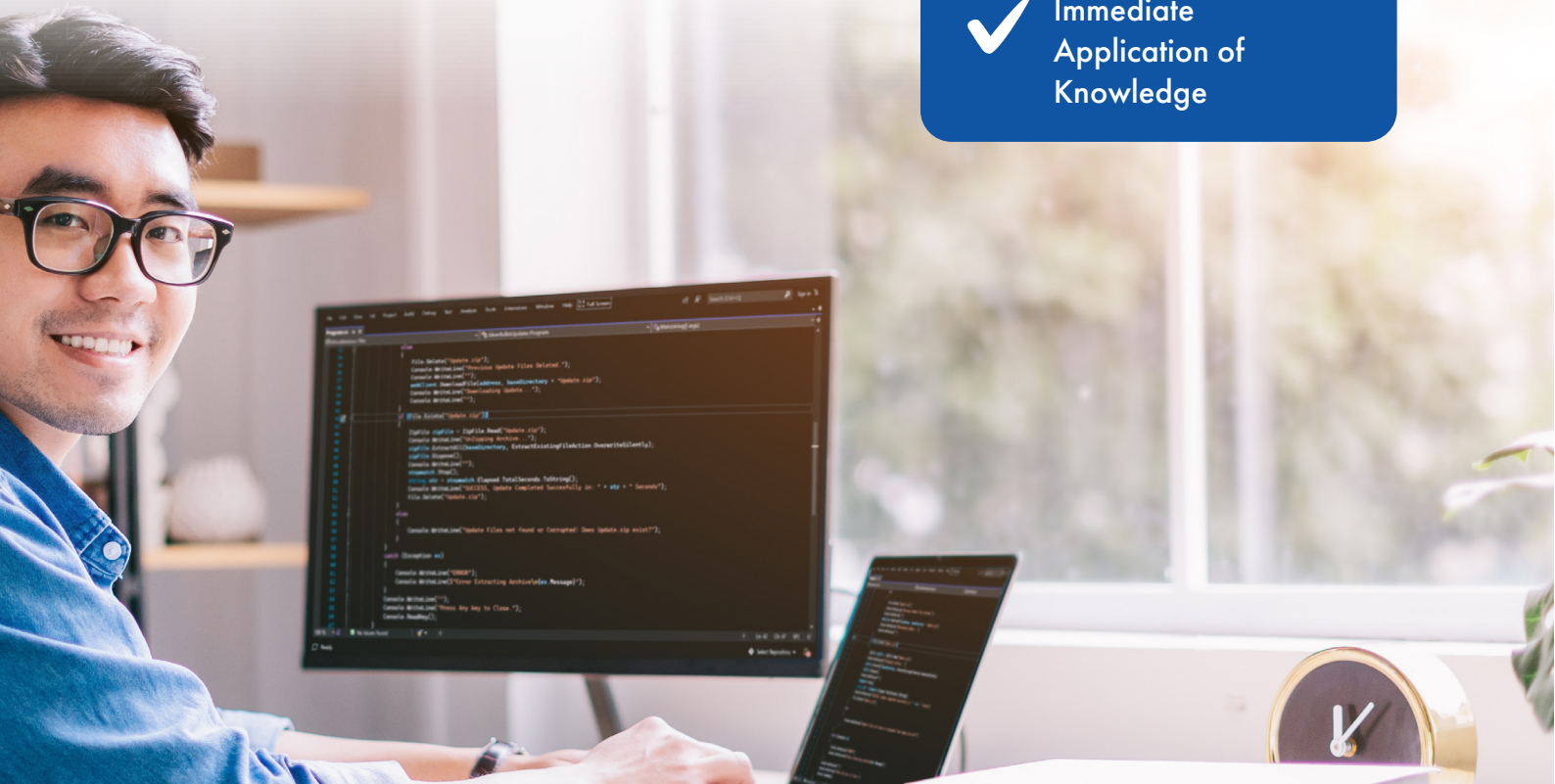Devices are expected to be connected to the internet by 2030

# LEARN UNDER THE BEST & BRIGHTEST IT MINDS

## OUR INDUSTRY CONNECTION

For more than 46 years, SEGi University has excelled in delivering industry-focused programmes to IT & Computing Professional. Our strong industry connections are the bedrock of our commitment to providing a comprehensive education. Through guest lectures, and industry-aligned curricula, we ensure our students graduate not only with knowledge but industry-ready skills. What truly distinguishes us is our multicultural learning environment. We attract students from around the world, creating a diverse atmosphere where students encounter a multitude of perspectives and backgrounds. This multicultural backdrop equips our students to thrive globally, fostering the ability to collaborate with individuals from diverse backgrounds.

At SEGi University, we're proud of our industry connections and multicultural environment, empowering our students to excel in an interconnected and diverse global landscape.

- ✓ Global Perspective
- ✓ Real-World Real-Time Relevance
- ✓ Building Professional Networks
- ✓ Guest Lectures and Workshops
- ✓ Stay Ahead With Industry Trends
- ✓ Immediate Application of Knowledge

**OUR PARTNERS**

C|EH Certified Ethical Hacker  C|PENT Certified Penetration Testing Professional  C|ND Certified Network Defender  Java  MySQL  Apple  Sun ORACLE

Google Cloud Certified — Data Engineer | Cloud Architect | Cloud Developer | Cloud DevOps Engineer | Cloud Security Engineer | Collaboration Engineer | Cloud Network Engineer | Associate Cloud Engineer | G-Suite | Hybrid Multi-Cloud

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