





# INFORMATION & COMMUNICATION TECHNOLOGY

- DIPLOMA OF INFORMATION TECHNOLOGY
- BACHELOR OF INFORMATION TECHNOLOGY (HONS)
- BACHELOR OF INFORMATION TECHNOLOGY (HONS) 201i
- BACHELOR OF INFORMATION TECHNOLOGY (HONS) DATA ANALYTICS









To prepare for the future, we are transforming to become the Analytics-Driven Entrepreneurial University. Our effort is recognised by MDEC which conferred on us the Premier Digital Tech University Award. We also received the MDEC Recognition for Certificate Training in data science for students.

To support this transformation, HELP invested RM25 million in the Business Analytics and Technology Innovation Centre (BATIC) which will be used to innovate and incubate technoentrepreneurship. We are also planning the Phase 4.1 expansion of Subang 2 which will incorporate the signature Green-Digital Technology Campus. We are getting bigger, better, bolder in our innovative education investment.

Besides using analytics to drive our management and teaching, we are also building our research capability in analytics application. Part of the research grant from the Ministry of Education and internal funding is allocated for analytics research.

To complement the above development we have signed up with Bloomberg to set up the largest Bloomberg Finance Lab in Malaysia. This resource facility boosts the economics, business, financial and analytics training in our Faculty of Business, Economics and Accounting, the ELM Graduate School and the Faculty of Computing and Digital Technology.

In addition, we have internship collaboration with AI companies and techno-entrepreneurs.

During the last 33 years HELP has been exploring and experimenting with innovative ways to evolve our education philosophy, principles and practices. To achieve the 3 Cs (Character development, Competency in leadership, and Competency in a profession), we have designed the TEA culture to nurture the right skills and predisposition in our students.

## ALL HELP STUDENTS TEA is the acronym for **ARE ELIGIBLE** FOR THE FREE **CERTIFICATE IN** DATA AND BUSINESS solving mindset; A is about ANALYTICS COURSE

Thinking mind. Entrepreneurial attitude, Analytics skills: T is about robust thinking skills; E is about having a problemthe skills in applying evidence-based management

CREATING THE

ALYTICS GENERATION

using data analytics. Each of these is supported by a programme of skills training and attitude development, viz the Critical Thinking Skills Programme, the Entrepreneurship-Leadership-Management Programme (ELM), and the Analytics Certificate Programme. This is the core education culture of HELP University as we prepare our students to be IR 4.0 future ready.

## **ADDING VALUE** THROUGH **DEVELOPING MOBILE MINDS**



At the School of Information and Communication Technology, we position our graduates to help drive the information technology (IT) industry to higher levels of innovation and success.

Our robust links with the IT industry have enabled us to introduce an innovative series of final year projects and internship programmes which not only offer students valuable work experience, but also provide specific knowledge and specialised skills for the industry 4.0 workforce.

Our mission is to produce self-directing graduates who master new skills efficiently, whilst our primary aim is to produce graduates, who at the same time are able to embrace rapid technological change and economic evolution.

We endeavour to instil in our students attitudes and values that will prepare them for a lifetime of continuous learning and leadership.

As advocates of a well-rounded education, we not only provide our students with instructions in all core IT academic subjects; we also provide credible and comprehensive instruction in soft skills, eq work ethics, communication skills, self confidence, presentation skills, teamwork, etc.

Today's service economy and the ascendance of work teams in large organisations place an added emphasis on soft skills. It is no longer sufficient to be a functional expert. To complement these unique core competencies, there are certain 'soft skills' every company looks for in a potential employee. Companies value soft skills because research suggests and experience shows that they can be just as important an indicator of job performance as hard skills. We therefore prepare our students to succeed in the increasingly global marketplace and in our own complex and ever-changing society.

We are especially proud that the contribution of the Faculty of Computing and Digital Technology was instrumental for the Malaysian Digital Economy Corporation's (MDEC) conferment of Premier Digital Tech University (PDTU) Award to HELP University. The PDTU is MDEC recognition and endorsement by the Ministry of Education of selected Institutions of Higher Learning for the delivery of first class courses in digital technology to produce highly-employable graduates.

Dr Sien Ven Yu Dean









## MESSAGE FROM THE DEAN

Faculty of Computing and Digital Technology



# THINGS YOU SHOULD KNOW ABOUT ICT @ HELP



Our graduates have been employed by IBM, Intel, HP, Accenture, Shell, CIMB, CitiBank, ASTRO, Star, Maxis, etc.

# WORK-BASED LEARNING EARN while you LEARN

## **BUSINESS ANALYTICS & TECHNOLOGY** INNOVATION **CENTRE (BATIC)**

BATIC is Malaysia's largest finance lab in collaboration with Bloomberg, a global financial, software and data company

> **INDUSTRY STRENGTH**

**FINAL YEAR** 

**PROJECTS** 

Students are provided with

opportunities to work on

real-world projects with

industry partners.

# **CENTRES OF**

SAS Data Science

Programmer



## WHAT IS **INFORMATION &** COMMUNICATION **TECHNOLOGY?**

Information & Communication Technology (ICT) is the convergence of Information Technology, Telecommunications and Data Networking Technologies into a single technology. It is a broad subject concerned with technology and other aspects of managing and processing information. IT covers a multitude of different jobs in processing, analysing, storing and conveying information, whether that means working on the internet or on systems for guiding rockets. Graduates with work experience and strong technical skills will be snapped up first. Jobs in these areas remain a significant feature of graduate recruitment, and the long-term global outlook is positive.

## **REAL-WORLD APPROACH** INTERACTIVE **TEACHING & LEARNING**

Interactive learning actively engages students in wrestling with learning material. It reinvigorates the classroom for both lecturers and students. Besides, it can strengthen their crictical thinking and problemsolving skills using a much more holistic approach to learning.

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 Oracle Database Certified Associate CompTIA Network+ Oracle Certified Associate, Java

 AWS Certified Cloud Practitioner **aws** academy

## **FUTURE-**PROOF **GRADUATES READY FOR** INDUSTRY

- Supported curriculum by Amazon Web Services Academy, IBM Academy and Microsft Academy to develop credible academic contents
- Curriculum aligned with industry needs
- Industry-supported professional certificates and R&D projects







FUTURE LAB

## **EXCELLENT TEACHING** FACULTY

- 80% of the lecturers have over 10 years of teaching and industry experience
- All lecturers have the minimum of a Master's qualification





## INDUSTRY **ENDORSEMENT & SUPPORT**

An Industry Advisory Board (IAB) was established by the School of Information Technology and Communication to ensure that the IT programmes offered are relevant and effective for its undergraduates; and to strengthen the department's ties with the computing industry. The IAB consists of senior industrialists and professionals with local and global representation, e.g., HT Consulting, IBM, Microsoft, Ernst & Young, MIMOS, ASTRO, PIKOM, MyBiz, FutureLab and SAS. The IAB advises on course content in the context of industrial trends and employment prospects, and supports the Faculty's activities in placing undergraduates in internship programmes and graduates in employment upon graduation. The IAB also provides advice on research activities and opportunities.

## **JOB PLACEMENTS**

Job assistance and internships are available for our graduates via industry linkages and career exposure. Our students are highly sought-after by leading companies. Our students have been employed by Accenture, IBM, Citibank, Maxis Communications, Motorola Malaysia, HSBC (China), MIMOS, Sapura Holdings, Broadcast Network Systems (ASTRO), Shell, HP and many others.



In today's world, it's all about collaboration and connecting. It is critical to create an eco-system where university students can connect

to current technology so that they can learn the latest, as well as interact with the private companies that need the solution. We have successfully piloted such a project with HELP IT students, and intend to continue more programmes of this nature."

**Mr Chris Chan** 

CEO, The Media Shoppe Bhd **Pikom Councillor** Co-Chair, HELP University IT Industry Advisory Board





/ IT is no longer a secondary or support industry; it is the industry of the future, and some of the biggest companies worldwide are IT companies. Our aim in the Advisory Board is to encourage students of HELP to look

at the opportunities and inspire them to build the Apples, Googles and Facebooks of the future in Malaysia."

### Mr Ganesh Kumar Bangah

Co-Founder of MOL Global Co-Founder of MOL Access Portal Bhd Group CEO & President of MOL Ventures Pte Ltd CEO of Friendster, Chairman of PIKOM Member, HELP University IT Industry Advisory Board



Today, using analytics to understand customers, improve product quality or detect fraud is a vital part of how an organisation uses data. However, as more and more devices connect to the Internet of Things,

data from computer networks, factory sensors, personal wearables, smart meters and even pets come flooding in. Without a way to handle and make sense of it, all that data is useless. HELP University in partnership with SAS empowers students with the foundations of data science. This enables students to navigate this data minefield and monetise an organisation's data."

### **Dr Mark Chia**

Director, Data **ASTRO** Malaysia Holding Berhad Co-Chair, HELP University IT Industry Advisory Board



## **DIPLOMA IN INFORMATION TECHNOLOGY**

KPT/JPS (R2/481/4/0073) (A6528) 09/20

### **PROGRAMME DETAILS**

- 2-year programme
- Students are required to complete 19 academic subjects and 4 MPU subjects
- 14 weeks for full semester; 7 weeks for half a semester
- 4.5 5 hours of teaching per subject per week

### **SUBJECTS**

- Level 1
- 8 Compulsory Subjects
- English for IT
- Introduction to Information Technology
- Introduction to Visual Programming
- Introduction to Structured Programming
- Introduction to Analysis and Design
- Introduction to Networking
- Computer Technology Essentials
- IT Mini Project

### Level 2

### 9 Compulsory Subjects

- Introduction to Computer Architecture
- Computing Mathematics
- Business Communications
- Database Concepts and Practices
- Internet Technology
- Object-Oriented Programming
- Data Communications
- Fundamentals of Operating Systems
- Industrial Internship

## PROGRAMMES

### **Elective Subjects (choose 2)**

- Calculus and Linear Algebra
- Programming Principles
- Interactive Media Applications
- Organisations and Management
- Principles of Marketing

### 4 compulsory Mata Pelajaran Pengajian Umum (MPU) subjects MPU1

MPU2163	Pengajian Malaysia 2 (Malaysian students)
MPU2133	Bahasa Melayu Komunikasi 1 (International students)

### MPU2 (choose 1)

MPU2213 Bahasa Kebangsaan A\* MPU2223 Communication and Writing Skills \* For Malaysian students without a credit in SPM Bahasa Melayu

### MPU3

MPU2313 Introduction to Malaysian Tourism

### MPU4 (choose 1)

Co-curriculum – Sports 1
Co-curriculum - Community Service 1
Co-curriculum – Event Management 1

### INTAKES

January, March, May, August

## OUR DEGREE PROGRAMMES ARE POPULAR PATHWAYS FOR HIGH SCHOOL GRADUATES.

These pathways offer students a range of comprehensive programmes that are industry-centric

Students have a choice to pursue the following specialisations at HELP:

- Bachelor of Information Technology (Hons)
- Bachelor of Information Technology (Hons) Data Analytics
- Pathways to University of Queensland
- **Degree Programmes**

## **PROGRAMME DETAILS**

- 3 years Honours programme
- 25 academic subjects to be completed in a minimum period of 3 years • 14 weeks for full semester; 7 weeks for
- half semester • 4.5 - 5 hours of teaching per subject per
- week

## **BACHELOR OF INFORMATION TECHNOLOGY (HONS)**

### KPT/JPS (R2/481/6/0020) (A5954) 04/20

### **SUBJECTS**

## Year 1 (7 compulsory subjects)

- Introduction to Information
- Technology Internet Concepts and Infrastructure
- Introduction to Database Systems
- Programming in Java I
- Data Communications and Networking
- Discrete Mathematics
- Introduction to Operating Systems

### **Elective Subjects (choose 2)**

- Introduction to Programming
- Application of Mathematics in IT
- Analytics for Decision Making

- Year 2 & 3 (11 compulsory subjects)
- User Experience Design Systems Architecture and Design
- Programming in Java II
- Software Engineering Principles
- IT and Entrepreneurship
- IT Project Management
- IT Management, Ethics and Security
- Final Year Project I
- Final Year Project II
- Business Development Project
- Industrial Internship

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### **Elective Subjects (choose 5)**

Students have a wide range of electives subjects that will allow them to select or design their own specialised tracks for their Information Technology degree.

### Mobile Computing Track

- Introduction to Mobile Apps
- Cloud Computing
- Digital Payment and Security
- Web Technologies Wireless Networking
- Mobile Applications Development

### Data Engineering Track

- Statistics and Data Visualisation
- Cloud Computing
- Advanced Database Systems
- Enterprise Data Infrastructure
- Data Mining and Machine Learning • Big Data Technologies

### **Computer Networking Track**

- Cloud Computing
- Computer Forensics
- Computer Systems and Networks
- Digital Payment and Security
- Web Technologies
- Wireless Networking

### IoT Track

- Applications of Data Analytics
- Small Business Management
- e-Commerce
- Social Media Marketing
- e-Commerce Strategies
- Digital Product Management

### Web Engineering Track

- Web Programming
- Cloud Computing
- Introduction to Mobile Apps
- Web Technologies
- Big Data Technologies
- Mobile Applications Development

## WORK-BASED LEARNING (WBL) MODE 2U1i

WBL is an optional pathway for BIT (Hons) students designed to enhance their employability prospects. It enables students to earn credits for academic study while being emplaced in industry. In this way, students develop industry specific skills and knowledge from the workplace environment, thus helping them to meet the learning outcomes of the programme. Students also develop and enhance their employability skills and are provided with a range of opportunities relevant to employability and career

development. Under WBL, students will spend at least two years studying at HELP and one year at work placement.

While the WBL is optional, placement will depend on:

- the student's CGPA;
- availability of places;
- acceptance by the organisation (via an interview); and
- completion of ALL Year 1 & 2 subjects (including the five MPU subjects)

### Year 3

- Final Year Project I
- Final Year Project II
- Industrial Internship
- Business Development Project
- IT Project Management
- IT Management, Ethics and Security Web Technologies
- Mobile Application Development

## **BACHELOR OF INFORMATION TECHNOLOGY (HONS) DATA** ANALYTICS

Year 3

6 Core Subjects

• Final Year Project I

• Final Year Project II

Industrial Internship

KPT/JPS (R/481/6/0677)(A6240) 02/21

### **SUBJECTS**

Year 2

2 Core Subjects

### Year 1

- **5** Core Subjects
- Introduction to Information Technology • Front-end Web Development

2 Specialization Subjects

Analytics for Decision Making

Introduction to Programming

2 Free Electives from IT, Business or

Systems Architecture and Design

User Experience Design

**4** Specialisation Subjects

Applications of Data Analytics\*

Statistics and Data Visualisation\*

\* SAS® Joint Certificate in Data Analytics awarded

upon successful completion of these subjects.

Communications degree programmes

- Introduction to Database Systems
- Data Communications and Networking Discrete Mathematics

### ASSESSMENT

- Course work and assignments 50% 70%
- Written examination 30% 50%

### INTAKES

January, May, August, October\* \* for international students only

 Enterprise Data Infrastructure Advanced Database Systems

2 Free Electives from IT, Business or Communications degree programmes

• IT Project Management Computer Ethics and Cybersecurity Business Development Project

## **2** Specialisation Subjects

• Big Data Technologies Data Mining and Machine Learning\*



Sas. THE POWER TO KNOW

### 5 compulsory Mata Pelajaran Pengajian Umum (MPU) subjects for ALL degree programmes

### MPU1 (to do 2 subjects)

MPU3113	Hubungan Etnik
	(Malaysian students)
MPU3123	Tamadun Islam dan
	Tamadun Asia
	(Malaysian students)
MPU3143	Bahasa Melayu
	Komunikasi 2
	(International students)
MPU3173	Pengajian Malaysia 3
	(International students)

### MPU2 (choose 1)

MPU3213 Bahasa Kebangsaan A\* MPU3233 Leadership in Business \* For Malaysian students without a credit in SPM Bahasa Melayu

### MPU3 (choose 1)

MPU3313	Comparative Ethics for
	Malaysia
MPU3323	Malaysian Constitution
MPU3353	Personal Financial
	Planning in Malaysia
MPU3363	Issues of the Social
	Media on Malaysian
	Society
MPU3343	Career Pathways in the
	field of Behavioral
	Sciences in Malaysia

### MPU4 (choose 1)

Co-curriculum
– Sports 2
Co-curriculum
- Community Service 2
Co-curriculum
– Event Management 2

# **INSPIRING TECHNOPRENEURS**

## GOOGLE SELECTS HELP IT GRADUATES FOR START-UP MENTORING

Jarvis Store, founded by three enterprising HELP Bachelor of Information Technology (Hons) graduates, Frianto Moerdowo, Gusindra Divanatha and Agus Yusida, was selected to attend the Google Launchpad Accelerator Program at Googleplex, Silicon Valley. Jarvis Store, rated one of the best start-up companies in Indonesia, was one of 24 smart companies from around the world selected by Google to attend the program.

The Bachelor of IT from HELP University provided me with a solid foundation to enter the IT industry. I am very fortunate to have such a great team of dedicated IT lecturers – they not only inspired me; they taught, mentored and encouraged me to be confident and courageous in my entrepreneurial endeavours!"

- Frianto, CEO of Jarvis Store

OUR ACHIEVERS AND ALUMNI SAY...





From left: Enterprising Jarvis Store founders Gusindra Divanatha (COO), Frianto Moerdowo (CEO), and Agus Yusida (CTO)

Studying in HELP has not only given me the tertiary knowledge, but also critical skills like project management, discipline and focus to achieve a desired goal. It has given me an experience of internationalisation and globalisation, through my interactions with foreign students and lecturers, as well as opened up a world view for me. This is critical for my entrepreneurship ventures." Vincent Cheng Kim Loong Bachelor of Information Technology CEO of Jevine Solutions Founder of Malaysian Business Network



The knowledge and experiences I gained from the Bachelor of Information Technology degree emphasises practical development of systems and applications pertaining to business contexts. It has prepared me to emerge in the IT industry as a System Analyst in a multinational company. The experience gained working in a multinational company has widened my knowledge in the management of an organisation,

running a business and communicating with different levels of individuals. This knowledge enabled me to establish Enovade Sdn Bhd."

### Lim Chun Chai

Bachelor of Information Technology (Hons) Managing Director, Enovade Sdn Bhd

# >90% OF OUR GRADUATES ARE EMPLOYED UPON GRADUATION

I have found IT to be incredibly fast-paced and there is always room for innovation and creativity. The subjects that I studied in my BIT (Hons) degree and the interactions that I had with my lecturers have most certainly equipped me with the necessary skills for my current employment at Ernst & Young (Singapore)."

### Ooi Her Wuen

Bachelor of Information Technology (First Class Honours), HELP University Tan Sri Datuk Paduka Dr Hajjah Saleha Outstanding Achievement Award President's Award Senior Associate, Advisory Services, Ernst & Young (Singapore)



The Bachelor of Information Technology credit transfer programme between HELP and The University of Queensland (UQ) is an excellent programme that encompasses a good mix of theory and practical learning experiences. Having dedicated staff that consistently win teaching awards and with links to industry partners, this programme is recognised globally and prepares you well for the work force."

### Twins John Ngui Kin Choong and Arthur Ngui Kin Seng

Both graduated with a HELP Bachelor of Information Technology (First Class Honours); they are currently working in Queensland.





I know I made the right decision to study this course because I am always enthusiastic about learning and

applying IT knowledge and skills to create something great and beneficial for people. HELP provided me with a good and conducive learning environment. The course is well-structured and I gained a lot of useful and important knowledge from the subjects taught at HELP. Moreover, the lecturers here are very professional and approachable."

### Su Sheng Loong

Bachelor of Information Technology, University of Queensland, on 2+1 credit transfer programme offered by HELP IT Department

Senior Member of Technical Staff (SMTS), Software Engineering with Salesforce, San Francisco

HELP University has made me strive for knowledge and taught me many different programming paradigms which can be used to explore many different programming languages. Subjects such as modelling using UML, all game development subjects and the final year project have prepared me to organise and plan new projects. It has been a great experience studying at HELP University. The lecturers teach from experience and demonstrate each theory with examples."

### Khalid Mohammad Saleem

Bachelor of Computer Science (First Class Honours) Games and Interactive Media Software Engineer, MIMOS

## **CREDIT TRANSFER**

# UNIVERSITY OF QUEENSLAND CREDIT TRANSFER PROGRAMME



the past 18 years, I have been constantly impressed by the

dedication of the staff of the HELP IT Department. Their standards meet with those set by The University of Queensland (UQ) and those HELP students who transfer to UO are first rate scholars".

As an external examiner

for HELP University for

Paul Bailes BSc (Hons), PhD FACS FIEAust **Emeritus Professor of Computer Science** The University of Queensland

- Bachelor of Information Technology (1+2 or 2+1 Credit Transfer)
- Bachelor of Information Technology Honours\* (2+2 Credit Transfer)
- Bachelor of Computer Science (2+11/2)
- Bachelor of Engineering (Software) Honours (2+2 Credit Transfer)
- Master of Computer Science<sup>T</sup> (2+1+1<sup>1</sup>/<sub>2</sub> Credit Transfer)
- Master of Computer Science<sup>T</sup> (3+1½)

The Bachelor of Engineering, Bachelor of Information Technology and Bachelor of Computer Science are provided as part of an exclusive credit transfer arrangement with The University of Queensland. The BEng and BIT are The University of Queensland's internationally recognised specialist degrees in engineering, computer technology and applications. The degrees include a central core comprising compulsory study in computer science and several affiliated areas.

## **BEIJING JIAOTONG UNIVERSITY CREDIT TRANSFER PROGRAMME**



- 2 years at HELP University (Diploma in Information Technology) + 2 years at the Beijing Jiaotong University (Bachelor of Software Engineering)
- Bachelor of Software Engineering (2+2)

Beijing Jiaotong University (BJTU) is a national research university that has been around for 117 years. It is also one of the "211 Project" universities under the direct administration of the Ministry of Education (MoE), China. Currently with 2,842 employees, 14,000 undergraduate students, 5,900 post-graduate students, 2,200 doctoral candidates, 5,000 in-service professional degree graduate students, 724 international students and more than 100,000 graduates, BJTU puts great emphasis on international cooperation in education.

Beijing Jiaotong University (BJTU) is located in Beijing's Haidian District, which is known as, "China's home of higher education". To the north of the university is Zhong-guancun (Silicon Valley). This university covers an area of 73 acres and is composed of east and west campuses. These campuses have amazing facilities and a beautiful environment.

## **AUSTRALIA & NEW ZEALAND**

### THE UNIVERSITY OF QUEENSLAND

- 2 years at HELP University (Diploma in Information Technology) + 11/2 years at The University of Queensland (Bachelor of Information Technology) or 2 years at The University of Queensland (Bachelor of Computer Science)
- Bachelor of Computer Science (2+1<sup>1</sup>/<sub>2</sub>)
- Bachelor of Information Technology (2+1)
- BEng (Software) (Honours) (2+2)
- Master of Computer Science (2+1+1<sup>1</sup>/<sub>2</sub>)
- Master of Computer Science (3+1½)

### **AUSTRALIAN NATIONAL UNIVERSITY**

- 2 years at HELP University (Diploma in Information Technology) + 2 years at Australian National University (Bachelor of Information Technology)
- Bachelor of Software Engineering (Honours) (2+2)
- Bachelor of Advanced Computing (Honours) (2+2)
- Bachelor of Information Technology (2+1½)

### THE EASTERN INSTITUTE OF TECHNOLOGY (NZ)

• 2 years at HELP University (Diploma in Information Technology) + 11/2 years at the Eastern Institute of Technology (Bachelor of Computing Systems)

### UNIVERSITY OF TECHNOLOGY SYDNEY

• 2 years at HELP University (Diploma in Information Technology) + 11/2 years at the University of Technology Sydney (Bachelor of Science in Information Technology)

Department of

TECHNOLOGY

### **UNITED KINGDOM**

### UNIVERSITY OF ESSEX

- 2 years at HELP University (Diploma in Information Technology) + 2 years at the University of Essex (BSc Information & Communication Technology / BSc Computer Games / BSc Computer Science)
- BSc Information & Communication Technology (2+1)
- BSc Computer Games (2+1)
- BSc Computer Science (2+1)

### **CARDIFF UNIVERSITY**

- 2 years at HELP University (Diploma in Information Technology) + 2 years at Cardiff University (Bachelor of Information Technology)
- BSc Computer Science (1+2 or 1+3 with 1 year industry internship)
- BSc Computer Science with Specialism (1+2 or 1+3 with 1 year industry internship)
- BSc Software Engineering (1+2 or 1+3 with 1 year industry internship)
- BSc Business Information Systems (1+2 or 1+3 with 1 year industry internship)
- MSc Advanced Computer Science
- MSc Information Security and Privacy
- MSc Computing
- MSc Computing and IT Management

### SWANSEA UNIVERSITY

• BSc Computer Science (1+2)

### **NORTHUMBRIA UNIVERSITY**

- MSc Computer Science
- MSc Business Information Systems Management
- MSc Computer Network Technology

## CHINA

### **BEIJING JIAOTONG UNIVERSITY**

- 2 years at HELP University (Diploma in Information Technology) + 2 years at the Beijing Jiaotong University (Bachelor of Software Engineering)
- Bachelor of Software Engineering (2+2)

**DEGREE PATHWAYS** 



# BUSINESS ANALYTICS AND TECHNOLOGY INNOVATION CENTRE (BATIC)



# WE ARE BIGGER, BETTER, BOLDER

- A RM25 million **Business Analytics and Technology Innovation Centre (BATIC)** for training in online live stock-trading with data analytics
- BATIC is Malaysia's largest finance lab in collaboration with **Bloomberg**, a global financial, software and data company
- Collaboration with top venture and technology groups to develop the HELP Technology Hub.





















### DIPLOMA

QUALIFICATION	REQUIREMENTS
SPM	3 SPM credits (including a pass in Bahasa Melayu and Sejarah and a credit in Mathematics)
O-LEVELS	3 O-Level credits (including Mathematics)
UEC	3 Bs in Senior Middle 3 (UEC) (including Mathematics)
CERTIFICATE	Recognised Computing Certificate or equivalent
OTHERS	Recognised related Technical / Vocational Certificate or equivalent with ONE (1) year relevant work experience or ONE (1) semester Bridging Programme

### DEGREE

QUALIFICATION	REQUIREMENTS
STPM	2 STPM Grade C (CGPA 2.0) OR equivalent AND a credit in Mathematics at SPM level / Grade C (CGPA 2.0) at STPM level.
STAM	STAM (pangkat jayyid) AND a credit in Mathematics at SPM level
FOUNDATION / MATRICULATION	Recognised Matriculation OR Foundation with CGPA 2.0 AND a credit in Mathematics at SPM level
UEC	5 Bs in United Examination Certificate (UEC) (including Mathematics)
CPU	5 CPU passes with a minimum average of 50% AND a credit in Mathematics at SPM level OR its equivalent.
SAM / TEE	5 SAM / TEE examination passes with a university aggregate of 50% AND a credit in Mathematics at SPM level OR its equivalent.
DIPLOMA	A Diploma in Computer Science / Information Systems / Information Technology / Software Engineering or equivalent with a minimum CGPA 2.50 AND a credit in Mathematics at SPM level OR its equivalent.
	Any other Diploma in Science and Technology / Business Studies with a minimum CGPA 2.50 may be admitted, subject to a rigorous internal assessment process AND a credit in Mathematics at SPM level OR its equivalent.
OTHERS	Any other equivalent qualification AND 3 SPM / O-Level credits (including a pass in Bahasa Malaysia AND a credit in Mathematics) (for Malaysian students only).
	OR equivalent recognised entry qualification with 3 credits (including a credit in Mathematics at SPM level)

Note: Candidates with CGPA below 2.50 but above 2.00 with a credit in Mathematics at SPM level OR its equivalent may be admitted subject to a rigorous internal assessment process. A credit in Mathematics at SPM level for candidates (1), (3), (7) & (8) can be exempted if the entry qualification contains subjects in Mathematics AND with an equivalent to, OR higher than, a credit in Mathematics at SPM level.

### ADDITIONAL REQUIREMENTS

International applicants will also be required to fulfil one of the following English language competencies:

• IELTS 5.0 or

16

- TOEFL (paper based): 410 or
- TOEFL (internet based): 35 or
- MUET: Band 3 or
- Equivalent gualification



engineering education.

### Comp Sc/Maths, MPhil (Oueensland). PhD (Queensland) Dean, Faculty of Computing and Digital

### Technology Dr Sien worked in commercial software development in MNCs in London before joining academia. She lectures in research skills and Object-Oriented Systems Development. Her research interests

include software modelling and software

Ms Ng Shu Min BA (Maths & Comp Sc) Hons (Bryn Mawr), MIT (CSturt), SAS **Certified Data Scientist** Head, School of ICT

Shu Min has had industry experience at multinational companies in programming, systems analysis and web publishing. She specialises in software development, analytics and machine learning education and research.



### BSc (Cognitive Sc) (First Class Hons) (UNIMAS), PhD (Intelligent System) Senior Lecturer

Dr Fong specialises in Machine Learning, Python programming and modern web development. She is a SAS Certified Specialist in Machine Learning and has more than 7 years of experience in academia. Her research interests include artificial intelligence, machine learning, feature engineering, computational cognition and evolutionary computation.



### Mr Steven Yong Yik Loong BSc Comp St (Software Eng) Hons (Nott Trent), Master of Software Eng (Malaya)

Steven has over 10 years' teaching experience. He lectures in 3D modelling, Computer Graphics and Games Development, Multimedia Authoring and Development, and Interactive Media Design. Prior to teaching, he worked for over five years as a corporate trainer.



Ms Anitha Velayutham BIT (Info Sys), MBA (Int Business) (CSturt) Anitha is a specialist in

Computer Ethics and Security. She teaches and develops courses in Security, Management and System Development for undergraduates and postgraduates.



Senior Lecturer

teaching and product development. Mr Kok Chye Hock

(UKM), MIT (CSturt) Senior Lecturer

of teaching experience. He specialises in Java programming.



Senior Lecturer Naline has more than five years of teaching experience in C programming, Visual Basic programming, Introduction to Information Technology, and Internet Technology.



Dr Alobaedy spent more than 7 years in academia and more than 9 years in the software development. He has won medals for invention and innovation in software development and educational applications, and he owns five copyrights in optimisation and educational applications. Dr Alobaedy has published widely in refereed journals and presented papers at international conferences. His research interests are Blockchain, Cryptocurrency, Optimization, Classification, Metaheuristic Algorithms, and Big Data Analytics.

Lecturer



## **ACADEMIC TEAM**

## Ms Seetha Letchumi Sukumaran

Seetha specialises in C++, web development and open source operating system (Linux). Her experience includes

# BSc (Maths & Comp Sc) Hons

Chye Hock has over 20 years

(UKM), MSc (Multimedia)

(Intelligent Sys), PhD (Comp Sc)

### Mr Koon Kim Peh BSc (Software Dev) (UTeM), MSc (Comp Sc) (UTAR)

Prior to teaching, Kim Peh worked for over 3 years as a software engineer in banking. He specialises in mobile computing and software engineering (UML). His interests include mobile application development, and data science. He has spent over 5 years in the private education industry.



### Mr Navid Behboodian BSc (Software Eng), MSc (Info Security) (UTM) Lecturer

Navid has 3 years of teaching and 8 years of industry experience in EMGS, Lenovo, Huawei as ICT assistant manager, network specialist and network engineer. His research interests include computer networking, IOT and Cybersecurity. He is completing his PhD on "EEG-based biometric authentication".

### Dr Dewi Octaviani

BEng (Informatics Eng) (UPN), MCs (Comp Sc) (UGM, Indonesia), PhD (Comp Sc) (UTM)

Lecturer Dr Dewi has over five years of teaching experience. She initially worked on the 'Semantic Decision Support System' for governmental projects. Her specialization and research interests include ontology, data mining, data warehouse, data management and database systems.



## Dr Abdul Qayoom Hamal

BSc (Physics, Maths & Stats), BEd (Teaching & Education), MCA (Computer Applications) (Kashmir University)

### Lecturer

Dr Abdul Qayoom has more than 6 years of industry experience working with various reputed MNCs. He has worked in the design and development of software products in Medical Imaging and SCADA. He has over 3 years' experience teaching programming fundamentals, C, C++, Java, Operating Systems. His research interests include machine learning and Al.



### Dr Brendan Tan Choon Ling BSc (CompSc) (Monash), MIT (Monash), PhD (Monash) Lecturer

Dr Tan spent over 10 years in the private education industry teaching subjects related to computer science and marketing. His specialisations are Java, C#, Python and R. His research interests include Data Science and Technology Adoption. Prior to teaching, Dr Tan spent 2 years as a programmer in the corporate sector.



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