

# **BACHELOR OF SCIENCE (HONOURS) IN INTERNET COMPUTING**

**(4 YEARS DURATION WITH THE INCLUSION OF UP TO A ONE-YEAR 'DISCOVERY YEAR IN SEMESTERS 6 & 7)**

## **Introduction**

This 4-year degree programme intends to produce well rounded high-quality graduates for challenging roles in the IT industry. The Programme has been developed with good industry links to ensure that the graduates are equipped with the necessary knowledge and skills to meet the ever-changing and dynamic demands of the IT industry.

## **General Aims**

In line with the ethos, vision and mission of Institut Teknologi Brunei [ITB] and the philosophy of MIB, all degree programmes offered by ITB aim to provide students with the skills and knowledge which will enable them to make practical and valuable contributions to national development. The programmes are designed so that graduates will be equipped to cope with the challenges of a rapidly changing work environment. Teaching and learning are based on a balanced combination of knowledge acquisition, hands-on practice and work experience. In addition, students will be able to develop the skills necessary to become effective technopreneurs and innovators and to respond to the changing environmental and socioeconomic needs of the nation.

## **Programme Aims**

The main aim of the programme is to meet the demand of the local IT industry for highly capable, multi-skilled graduates as well as to develop these graduates to be competitive. The programme seeks to address the skills shortage by providing potential students with the necessary knowledge and abilities that will be attractive to future employers.

Successful graduates will be able to:

- Plan, design and supervise IT projects independently.
- Undertake analysis and design tasks of IT using relevant methodology and standards.
- Understand current and emerging Internet computing technologies.
- Develop expertise and interest in topic areas of Internet computing technologies of direct and complementary relevance to their work.

## **Career Paths**

Career opportunities exist in many internet computing areas such as internet and e-commerce applications development and support, general IT and network support and consultancy, system administrator, internet programmer, network engineer etc. The programme is also designed to provide a platform for graduates' career development, innovation and/or further study to postgraduate level.

## Entry Requirements

### General Entry Requirements:

- At least a credit six in Malay Language at GCE Ordinary Level (*Applicable only to local Bruneian students applying for the award of Brunei Government Scholarships*).
- At least a credit six in Mathematics at GCE Ordinary Level.
- At least a credit six in English Language at GCE Ordinary Level or an IELTS score of 6.0 within the last two years or a TOEFL minimum overall score of 550 or its equivalent.

### Programme Entry Requirements:

The minimum entry requirements to the Year 1 of the Bachelor of Science (Honours) degree in Internet Computing are:

- A minimum of 200 'A' Level points for 3 'A' level passes in Mathematics and two other relevant [English medium](#) subjects  
**OR**
- A minimum of 180 'A' Level points for 2 'A' level passes in Mathematics and one other relevant [English medium](#) subject  
**OR**
- A minimum International Baccalaureate scores of 30 points with minimum of 5 points in Mathematics at a higher level and preferably with two science or technology subjects at higher level  
**OR**
- A BTEC/BDTVEC Higher National Diploma in [Information Technology related fields](#) with acceptable grades or its equivalent as specified by the faculty  
**OR**
- Work experience and/or qualifications deemed to be equivalent to one of the above to be decided on a case by case basis by the faculty.

**Note: For Advanced Standing Entry to Year 2 of the Programme or Accreditation of Prior Learning, please contact the Computing and Information Systems Programme Leader.**

### **Notes on "relevant" subjects:**

[Relevant](#) subjects include Further Mathematics, Physics, Chemistry, Biology, Computing and Design & Technology.

## BSc (Hons) in Internet Computing Programme structure

YEAR	SEMESTER	MODULE TITLE
I	1	Melayu Islam Beraja (MIB)
		Communication Skills
		Quantitative and Computational Methods
		Fundamentals of Information Systems
		Programming Principles and Techniques
	2	Principles of Management
		Principles of Financial Accounting
		Systems Analysis and Design
Introduction to Multimedia and the Internet		
II	3	Computer Systems and Architecture
		Database Systems Design and Implementation
		Advanced Programming
		Human Computer Interaction
	4	Web Development
		Distributed Database Systems
		Information Systems Development
		Data and Computer Communications
III	5	Project Management
		Internet Technologies
		Interactive Multimedia Authoring
		Computer Networking
		Internet Security Management
		e-Commerce Technology
	6	Work Placement
IV	7	Student Elective I – Research Methods
		Student Elective II – Technopreneurship
		Student Elective III*
		Programme Elective I*
		Programme Elective II*
		Programme Elective III*
	8	Digital Forensics
		Multimedia Information Access
		Project

**Disclaimer:** ITB reserves the right to make any necessary changes to the programme without any prior notice.

**\*To be advised**

## **Further Enquiries**

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