Selected course descriptions

ISYS2102 - Software Engineering 2
This course builds on the fundamental Analysis and Design and Unified Modeling Language (UML) skills learned in ISYS2089, and the more advanced software engineering processes and tools learned in COSC2101. Students learn how to design high-quality, large-scale software applications using software design pattern and sound software design principles. Throughout the course, students gain practical experience by reviewing and critiquing fellow students' work, using IBM's RUP as well as Agile and Scrumm software development methodologies.

COSC2440 - Software Architecture: Design & Implementation
This course builds on the fundamental Object-Oriented Programming skills gained through the COSC2081 and COSC2082 courses. The course introduces common client server architectures such as sockets, RMI and Servlets, as well as their impact on e-Commerce applications. Advanced Java programming concepts such as templates, multithreaded programming and the JCF are reviewed. Students develop small applications such as multiplayer games, chat systems, and e-Commerce applications.

Application Programming: COSC2450 - Web Development Technologies
This course introduces students to the principles and practice of developing applications using the Common Language Infrastructure (CLI) and the C# programming language. Topics include cutting edge technologies such as ASP.NET 3.5, C# 3.0, LINQ, T-SQL and Crystal Reports, AJAX, Silverlight 2.0, as well as web services and security. As part of the assignments, students develop a real-life, Internet-based, advanced software application.

Multimedia Design: GRAP2149 - Imaging and Animation
This course introduces key topics, principles and techniques for 3D imaging and animation, including rendering, virtual environments and the behaviours of objects. The focus will be on the theory of virtual 3D and of virtual worlds and the use of software applications to create 3D animation, dynamics and motion oriented visual design.

Admission requirements

In order to be admitted to the Bachelor of Information Technology program, applicants are required to have completed high school Year 12, or equivalent. In addition, applicants for the IT program are required to have completed a mathematics subject with a good score.

Further, applicants must provide evidence of one of the following:

- Successful completion of RMIT Vietnam English Advanced Level (Level 7)
- IELTS 6.5+ (no band below 6.0)
- TOEFL Paper based 580+ (TWE 4.5+)
- TOEFL Computer based 233+ (TWE 4.5+)
- TOEFL Internet based 92+ (no band below 20)

Note: TOEFL and IELTS results are recognised for two years from the test date. RMIT English results are only recognised for one year from the test date.

Applicants with an interest in studying the Multimedia Design specialist stream can study the Diploma of Design program first, and, upon successful completion of the Diploma program, apply for the Bachelor of Information Technology program. Please contact RMIT Vietnam Student Recruitment for more details about this option.

Application procedure

RMIT Vietnam has three semesters per calendar year with intakes each semester for academic programs (subject to demand).

Application deadlines for 2010 are:

- 23 April for June intake
- 20 August for October intake
- 17 December for February 2011 intake

Offers will be based on academic merit (Year 12 or equivalent). Applicants who do not receive an offer for the initial intake may be considered for the subsequent intakes.

Applicants who wish to apply for credit for previous studies should contact RMIT Vietnam Student Recruitment for further details.

Contact details

RMIT International University Vietnam
Student Recruitment Department

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Tel +84 8 3776 1369
Fax +84 8 3776 1399
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www.rmit.edu.vn

(*) *effective from April 2010*

RMIT UNIVERSITY VIETNAM

Bachelor of Information Technology

RMIT program code
BP162

Location
Saigon South

Mode & duration
2.5 years full-time
(equivalent to a 3-year degree in Australia)

Program overview

Vietnam is facing skill shortages in the information technology (IT) industry. Constant advances in computer software and internet applications have created a strong demand for people with technical expertise in computer software, but also skills such as business analysis, problem solving, and communication.

At RMIT, IT students acquire a core of IT skills which include programming, team work and communication, as well as project management. IT students have the option to develop themselves further in either software development or multimedia design. IT students also have options to study electives from other RMIT programs such as business programs.

RMIT Vietnam's IT graduates are highly sought-after because they have more than just technical skills. They have the capability to enter this challenging field in well-paid positions, including management roles.

Career prospects

IT graduates have a broad range of job opportunities from which to choose. Being skilled IT people, they can obtain technical positions in the software development and outsourcing industry, such as software developer, web developer, system administrator, software architect, team leader, business analyst, and security specialist.

IT graduates with an interest in business or management have excellent opportunities to obtain technology-related positions in large businesses, such as intranet manager, IT manager, project manager, and corporate IT trainer. They also have the necessary knowledge to manage business applications.

Professional recognition

The Bachelor of Information Technology program is accredited at the Professional level by the Australian Computer Society (ACS), an organisation that accredits related Information and Communication Technology programs in Australia.

Teaching methods and assessment

The facilities for IT students include a high-performance computer lab with specialised programs for software development and working in teams. IT students are exposed not only to the Windows platform, but also alternatives such as Apple Mac OS X and Linux. RMIT Vietnam provides a specialised Linux server and Linux CDs to help IT students gain skills in working with this increasingly popular platform. RMIT Vietnam has a state-of-the-art wireless network.

Students study in class groups of 30 students or less, and the Bachelor of Information Technology takes a student centred approach to teaching and learning. Students learn on a face-to-face basis with the assistance of appropriately qualified academic staff trained in teaching and learning by RMIT Vietnam. Syllabus content is designed by, and the delivery of the program and assessment is quality assured by, academics at RMIT University in Australia.

'RMIT Vietnam impressed me for its practical approach to learning and teaching, which other IT institutions still lack. Another thing that differentiates RMIT Vietnam from other IT institutions is that at RMIT, we learn to create software systems that work for people and business; not the other way around.'

Nguyen Van Thoai
Semester 4 -
Bachelor of Information Technology

Program structure and specialist streams

The Bachelor of Information Technology program comprises 24 courses, spread over seven semesters. The core of the program comprises 16 IT courses. In addition, students choose a specialist stream, which comprises six courses. The specialist streams currently available are Application Programming and Multimedia Design.

IT students study two general electives. General electives are courses from any other program offered at RMIT Vietnam. Examples are Business Analysis, and Project Management and Professional Practice. In the final semester, students undertake an internship.

Course code	Title
Core courses	
COSC2083	Introduction to Information Technology
COSC2429	Introduction to Programming
COSC2084	Computer Organisation
MATH2081	Mathematics for Computing
COSC2430	Web Programming
COSC2081	Programming 1
ISYS2077	Database Concepts
ISYS2089	Software Engineering Fundamentals
COSC2082	Programming 2
COSC2171	Web Servers and Web Technology
COSC2174	Data Communication and Net-centric Computing
COSC2130	Professional Computing Practice
COSC2101	Software Engineering: Process and Tools
COSC2440	Software Architecture: Design and Implementation
ISYS2102	Software Engineering 2
COSC2223	Internship Program
Choose Two General Electives	
Application programming stream courses	
COSC2085	Programming Techniques
COSC2131	Programming using C++
COSC2431	Document Markup Languages (XML)
COSC2450	Web Development Technologies (.NET)
COSC2465	Electronic Commerce and Enterprise Systems (J2EE)
ISYS2092	Software Testing
Multimedia design stream courses	
COSC2282	Design for Interactive Media 1
COSC2283	Design for Interactive Media 2
GRAP2149	Imaging and Animation
COSC2366	Advanced 3D Imaging and Animation
COSC2085	Programming Techniques
COSC2450	Web Development Technologies

'RMIT Vietnam provides students with the best facilities, for example a good library with up-to-date textbooks. RMIT students have access to online libraries with journals, eBooks and articles that help to research topics of their interest.'

Nguyen Huu Nhat
Semester 7 -
Bachelor of Information Technology