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INTRODUCTION



The University of the West Indies (UWI)

Since its inception in 1948, The University of the West Indies (UWI) has evolved from a fledgling college in Jamaica with 33 students to a full-fledged, regional University with close to **50,000** students. Today, The UWI is the largest, most long-standing higher education provider in the Commonwealth Caribbean, with **three physical campuses** in **Barbados, Jamaica, Trinidad and Tobago**, and an **Open Campus**, which altogether serves **17 English-speaking countries and territories in the Caribbean**: Anguilla, Antigua and Barbuda, The Bahamas, Barbados, Belize, Bermuda, The British Virgin Islands, The Cayman Islands, Dominica, Grenada, Jamaica, Montserrat, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Trinidad and Tobago, and Turks and Caicos. The UWI's faculty and students come from more than **40 countries** and The University has **collaborative links with 160 universities globally**; it offers undergraduate and postgraduate degree options in Food and Agriculture, Engineering, Humanities and Education, Law, Medical Sciences, Science and Technology and Social Sciences. The UWI's priority focal areas are linked closely to the priorities identified by CARICOM and overall development of the Caribbean region. **The introduction of this new BSc Software Engineering (Mobile Application Technologies) is envisioned as the launching pad for Caribbean technology innovation and entrepreneurship, and is directly aligned with The UWI's mission of supporting Caribbean development.**

The Global Institute of Software Technology (GIST), Suzhou, China



GIST (www.gem-group.com/gist-frameset3.htm) is a joint venture between GEM Suzhou, Microsoft, and Suzhou Science and Technology Town (SSTT). As a unique institution of higher learning driving innovation in software technology, GIST was granted permission by the Jiangsu Provincial Education Bureau to recruit students through independent enrolment. GIST was set up as a provincial-level dazhuan (diploma) college in 2007.

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GIST enrolled its first batch of 1,800 students in September 2007. Today the College has over **4,700 dazhuan students** pursuing courses in software engineering and information technology. **GIST South New District (SND) Campus has a 10,000 student capacity**. GIST also offers educational programmes in the GEM SIP Campus in the **Suzhou Industrial Park**. GIST's operating philosophy is to combine theory and practice, and expose software graduates to international standards. Hence, "International Cooperation, Production-Study-Research Integration" are combined into practice in our unique education model of "Classroom-Teaching-Project Simulation-Paid Practicum", covering both the teaching of software technology and foreign languages (English and Japanese). **GIST's vision is to prepare students with world-class professional competence for successful careers in a global society.**

UWI China Institute of Information Technology (UWICIIT)

The UWICIIT was formed in February 2016 after an agreement was signed between The UWI and the GIST. The UWICIIT offers a BSc. Software Engineering programme (four and one-half years including a six-month paid internship) with a major in Mobile Application Technologies

The programme comprises 126 credits and will be offered as a 2+2 programme, with students spending the first two years in the Caribbean and the succeeding two years in China. Students will then have an opportunity to complete a six-month paid internship at an IT company in the Suzhou Industrial Park (the "Silicon Valley" of China). English is the primary language of instruction for the programme, however Chinese language and cultural training will be provided as a part of the curriculum.

This collaborative programme offered by The UWI and GIST is well aligned with the local, regional and international computing industries' needs. Courses at The UWICIIT will be offered in a blended mode with online instruction/video conferencing provided by the Institute location where the course is being primarily delivered. Tutorials, laboratory sessions and other interactions with students will be conducted in a face-to-face mode by instructors at the various sites.



THE UNIVERSITY OF THE WEST INDIES
Cave Hill Campus



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Thank you for your interest in our Faculty of Science & Technology. For further information regarding programme details, entry requirements, application information and detailed programme costs for:

BSc. Software Engineering (Mobile Application Technologies)

Kindly contact the Faculty Office:

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www.cavehill.uwi.edu



FACULTY OF SCIENCE & TECHNOLOGY
UNDERGRADUATE PROGRAMMES

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Faculty of Science & Technology

BSc. Software Engineering (Mobile Application Technologies)

FACULTY OF SCIENCE & TECHNOLOGY
UNDERGRADUATE PROGRAMMES

BSc Software Engineering (Mobile Application Technologies)

This unique programme offers:

- Core software engineering training which is aligned with the latest ACM/IEEE Software Engineering standards;
- Training in research methods and technical writing;
- Training in ethics and professional conduct;
- A concentration in mobile application technologies which includes training in both the Android and iOS development environments;
- Chinese language training which is aligned with the *Hanyū Shuǐping Kǎoshì* (HSK) Chinese language proficiency standard;
- Exposure to and knowledge of Chinese society, traditional culture, governance and business (with special emphasis on information technology (IT) based businesses);
- IT certifications, which will be issued by the given IT certification body;
- A paid six-month internship programme at an IT company in China (for example, at a Fortune 500 company in Suzhou Industrial Park, known as the “Silicon Valley” of China); and,
- The award of a degree from The UWI (in collaboration with The GIST), delivered in a 2+2 format.

Careers utilising Software Engineering

- Software Engineer
- Computer Systems Analyst
- Software Tester
- Technology Entrepreneur
- User Interface Designer
- Technical Writer.

This programme can also be used to continue on to a postgraduate programme.



Entry Requirements

In order to be admitted to the four-year degree programme, candidates must satisfy the University requirements for **Full Matriculation** in the Faculty of Science and Technology. The requirements state that candidates must possess a minimum of five (5) CSEC (CXC) General Proficiency (Grades I-III) or GCE O-Level subjects. This must include English Language and Mathematics along with two (2) approved laboratory science subjects and one (1) other subject. It is also mandatory that candidates:

- Have obtained passes in four Units at Caribbean Advanced Proficiency Examination (CAPE), at least two Units in one subject, all at Grade V or better (or equivalent qualification). One of the CAPE subjects must be an Approved Mathematics subject and the other an Approved Science subject. **or**
- Have an approved Associate Degree with a GPA of 2.5 or higher, (or equivalent qualification) from a Tertiary Level Institution. (N.B. Candidates must also satisfy any UWICIIT specific requirements). **or**
- The international student matriculation equivalent. The language of instruction is English and applicants whose native language is not English may be required to take an English Proficiency Test set on behalf of the Board of Undergraduate Studies.

Applicants may, at the discretion of the Board of Undergraduate Studies, be required to take a qualifying examination in order to satisfy the Board of their suitability to undertake the course leading to the BSc. Software Engineering degree.

Programme Structure

YEAR ONE

- Year 1 - Semester 1**
- An Introduction to Computing I
 - An Introduction to Computing II
 - Mathematics for Software Engineers
 - Computing in Society
 - Research Methods for Software Engineers

- Year 1 - Semester 2**
- An Introduction to Object Oriented Programming
 - Software Engineering Essentials
 - Mobile Web Programming
 - Current & Future Trends in Computing for Software Engineers
 - Technical Writing for Software Engineers

YEAR TWO

- Year 2 - Semester 1**
- Discrete Mathematics for Software Engineers
 - An Introduction to Software Engineering
 - Computer Networking & Security
 - Computer Systems Organization
 - Beginner Chinese Language, Culture & Society

- Year 2 - Semester 2**
- An Introduction to the Analysis of Algorithms
 - Object Oriented Design and Implementation
 - An Introduction to Requirements Engineering
 - Database Systems
 - Beginner Chinese Language & IT Business Environments

The two required Foundation Courses must be completed by the end of Year 2.

YEAR THREE

- Year 3 - Semester 1**
- Software Modelling
 - Android Application Development I
 - Software Architecture
 - Web & Mobile Application Development I
 - Software Project Management

- Year 3 - Semester 2**
- Software Testing
 - Android Application Development II
 - Application Development for IOS Devices
 - Web & Mobile Application Development II
 - Formal Methods and Software Reliability



- Year 4**
- Year 4 will comprise of practical training in Software Engineering and will include;
- Courses in advanced Software Engineering topics
 - Entrepreneurship
 - Software Engineering Certifications and
 - a Capstone project.

YEAR FOUR

