2+2 TRANSFER PROGRAM

BACHELOR OF SOFTWARE ENGINEERING
BEIJING JIAOTONG UNIVERSITY (BJTU)

4 years (HELP 2 years + BJTU 2 years)
• 2 years at HELP University (Dip IT) + 2 years at the BJTU (Bachelor of Software Engineering)
• 2 years at HELP University (BIT (Hons)) + 2 years at BJTU (Bachelor of Software Engineering)

Admission Requirements
CGPA 2.00. Open to HELP BIT (Hons) and Dip IT students.
Outcomes for Graduates

- Ability to work as a product manager, software designer, project manager, quality manager, software service consultant and other positions related to software engineering
- Ability to apply engineering knowledge and technical principles and solve complex engineering and technology problems in Software Engineering

High Quality Teaching of SSE

- Faculty includes a double-employed academician from the Chinese Academy of Engineering
- One staff is a national expert for scientific and technological progress evaluation
- 21 full-time lecturers
- 28 enterprise experts
- 71.4% of the lecturers with doctoral degrees
- 60.8% of lecturers with corporate engineering experience
- A national expert for scientific and technological progress evaluation

Excellent Internship and Employment Opportunities

BJTU is located in Beijing’s ‘Silicon Valley’. SSE has partnerships with top-level IT companies, including Microsoft, Alibaba, Huawei, Tencent, SAP, Baidu, Neusoft, Chinasoft, and more than 40 famous software enterprises.

Enquiries: ict@help.edu.my

List of Subjects

Core Subjects
- Elementary Chinese I
- Spoken Chinese
- Elementary Chinese II
- C Programming
- Object-Oriented Programming and Design
- Introduction to Software Engineering
- Data Structure
- Discrete Mathematics
- Computer Network
- Operating System
- Database System
- Software System Analysis and Design
- Software Architecture
- Software Project Management
- Software Testing Technology and Practice
- Project-Based Research II
- Project-Based Research III
- Graduation Project
- Practice in Object-Oriented and Interactive Application Development
- Comprehensive Practice of Data Structure and Algorithm
- Comprehensive Practice on Database Application System
- Comprehensive Training of System Conception and Design

Elective Subjects (max: 10 credits)
- Software and Intellectual Property Law
- Principles of Computer Organization
- Algorithm Design and Practice
- C++ Programming
- Information Security – Principles and Practice
- User Interface Design and Evaluation
- Web Developing Technologies
- Mobile Application Development
- Non-Relational Database
- Software Process and Improvement
- J2EE Frameworks and Application
- Linux System and Network Programming
- Data Mining and Data Analysis
- Product Analysis, Design and Operation
- Lectures on Cutting-Edge Technology
- Foundation of Artificial Intelligence