

BACHELOR OF SOFTWARE ENGINEERING (INFORMATION SYSTEMS DEVELOPMENT) PROGRAMME

PROGRAMME OVERVIEW

Software engineering principles involves a systematic, disciplined, quantifiable and organised approach throughout its entire systems development life cycle. Our Bachelor of Software Engineering (Information Systems Development) programme is designed to provide a thorough understanding of the specification, development, implementation, testing, maintenance and evolution of software systems especially for the development of business and organizational-based information systems. The programme cultivates competent software engineers through strong fundamental knowledge in software development and project management, and hands-on practices of current practical approaches and technologies from the industry. The versatility of our graduates enables them to fit into various career opportunities including software engineers, systems or requirements analysts, software or systems designers, programmers, software testers and information systems executives. Graduates are also fundamentally equipped to explore the software engineering field more in-depth academically in relevant postgraduate degree programme

PROGRAMME OBJECTIVES

The programme should prepare graduates who

1. Possess fundamental knowledge, principles and skills relating to Software Engineering especially in the field of Information System Development.
2. Have strong analytical and critical thinking skills to solve problems by applying knowledge, principles and skills relating to Software Engineering especially in the field of Information System Development for lifelong learning.
3. Are competent in applying appropriate methodologies, models and techniques that provide a basis for analysis, design, development, testing and implementation, evaluation, maintenance and documentation of a large scale software system.
4. Understand the interplay between theory and practice of Software Engineering especially in the field of Information System Development for lifelong learning and the essential links between them.
5. Have communication, teamwork, leadership, interpersonal and entrepreneurial skills, and aware of the social, ethical and legal responsibilities.

PROGRAMME LEARNING OUTCOMES

At the end of this programme, the graduates of the Bachelor Software Engineering (Information System Development) are able to:

1. Demonstrate knowledge of essential facts, concepts, principles, and theories relating to Software Engineering especially in the field of Information Systems Development.
2. Apply appropriate methodologies, models and techniques that provide a basis for analysis, design, development, test and implementation, evaluation, maintenance and documentation of a large scale software.
3. Inculcate skills and social responsibility in developing computing products relating to Software Engineering especially in the field of Information Systems Development
4. Demonstrate professionalism and social and ethical consideration in accordance with ethical and legal principles relating to Software Engineering especially in the field of Information Systems Development.
5. Demonstrate communication, teamwork, leadership, and interpersonal skills.
6. Utilise relevant techniques and demonstrate analytical and critical thinking skills in problem solving relating to Software Engineering especially in the field of Information Systems Development.
7. Apply skills and principles of lifelong learning in academic and career development relating to Software Engineering especially in the field of Information Systems Development.
8. Apply broad business and real world perspectives daily and demonstrate entrepreneurial skills relating to Software Engineering especially in the field of Information Systems Development.

Komponen Kursus	Nama Kursus	Unit	Taraf
Kursus	Citra Wajib	10	CW
Universiti	Citra Universiti	30	C1-C6
Kursus	TTTK1114 Pengaturcaraan Komputer	4	WP
Wajib	TTTR1333 Matematik Diskret	3	WP
Program	TTTM2033 Teknologi Platform	3	WP
	TTTK1143 Rekabentuk Aturcara & Penyelesaian Masalah	3	WP
	TTTT1964 Pangkalan Data	4	WP
	TTTU2323 Pengaturcaraan Multimedia	3	WP
	TTTU2983 Pangkalan Data Lanjutan	3	WP
	TTTE2104 Kejuruteraan Keperluan Perisian	4	WP

Komponen Kursus	Nama Kursus	Unit	Taraf
	TTTK2323 Pengaturcaraan Mudah Alih	3	WP
	TTTU2023 Pengurusan Proses Bisnes	3	WP
	TTTU2304 Rekabentuk Perisian untuk Sistem Maklumat	4	WP
	TTTK2153 Perkongsian Maklumat	3	WP
	TTTP2543 Pengaturcaraan Web	3	WP
	TTTU2163 Analitik Data dan Sistem Sokongan Keputusan	3	WP
	TTTU3404 Pembangunan Perisian untuk Sistem Maklumat	3	WP
	TTTE3503 Pengujian Perisian	3	WP
	TTTU4172 Usulan Projek	2	WP
	TTTU4086 Projek	6	WP
	TTTE4333 Pengurusan dan Penyenggaraan Perisian	3	WP
	TTTT1022 Analisis Data	2	WP
	TTTT4056 Latihan Industri	6	WP

Komponen Kursus	Nama Kursus	Unit	Taraf
	TTTT4076 Projek Industri	6	WP
Kursus Lengkap Program (LP)	TTTU3833 Teknologi E-Bisness	3	LP
	TTTC3213 Kejuruteraan Data	3	LP
	TTTU4363 Audit dan Keselamatan Sistem Maklumat	3	LP
	TTTU4333 Pengurusan Sistem Maklumat	3	LP