



MONASH
University

Handbook

程序代写代做 CS编程辅导

Unit



FIT2107 Software quality and testing

WeChat: cstutorcs

Assignment Project Exam Help

Email: tutorcs@163.com

Overview

QQ: 749389476

<https://tutorcs.com>

This unit focuses on modern software quality assurance and testing tools and techniques to assure the quality of software systems. Students will learn different quality aspects of quality attributes, e.g., reliability, human, and security. Students will design test cases and apply systematic testing techniques in the context of individual modules and entire systems, using appropriate tools and techniques to automate the testing process where possible. Finally, students will analyze and report code quality issues using modern code review practices with tools and measures.

Faculty:

[Faculty of Information Technology](#)

Owning organisational unit:

[Faculty of Information Technology](#)

Study level:

Undergraduate

SCA band:

2

EFTSL:

0.125

Credit points:

6

Open to exchange or study abroad students?

Yes

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Offerings

S2-01-CLAYTON-ON-CAMPUS

Location: Clayton

Teaching period: Second semester

Attendance mode: On-campus



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S2-01-MALAYSIA-ON-CAMPUS

Location: Malaysia

Teaching period: Second semester

Attendance mode: On-campus

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Requisites

Prerequisite

→ ENG1003

6 CP

Engineering mobile apps

OR

→ ENG1013

Engineering smart systems



AND

→ ENG1060

6 CP

Computing for engineers

OR

→ ENG1014

6 CP

Engineering numerical analysis

OR

→ FIT1048

6 CP

Fundamentals of C++

OR

→ FIT1051

6 CP

Programming fundamentals in java

OR

→ FIT1053

6 CP

Introduction to programming: Advanced

OR

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Contacts



Chief Examiner(s)

WeChat: cstutorcs

Dr Chakkrit Tantithamthavorn

Email: Chakkrit.Tantithamthavorn@monash.edu

Offering(s):

- Applies to all offerings

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Unit Coordinator(s)

<https://tutorcs.com>

Dr Lillian Wang

Email: lillian.wang@monash.edu

Offering(s):

- Second semester, Malaysia, On-campus

Dr Chakkrit Tantithamthavorn

Email: Chakkrit.Tantithamthavorn@monash.edu

Offering(s):

- Second semester, Clayton, On-campus

Learning outcomes

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On successful completion of this unit, you should be able to:



1. Analyze and identify quality attributes for a small to medium-sized software system;
2. Develop a software testing strategy, selecting appropriate quality assurance and testing strategies;
3. Design test cases using black box and white box testing techniques based on user requirements;
4. Conduct automated unit testing using continuous integration frameworks and system testing;
5. Analyze and report code quality issues using modern code review practices with tools and measures.

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Teaching approach

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Active learning

Assessment

Assignment 1: Quality Attributes + Test Plans

Group work

Value %: 25

Assignment 2: Blackbox Testing

Value %: 25

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Assignment 3; Whitek

Value %: 25



Assignment 4; Code Review and Code Quality

Value %: 25

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Scheduled teaching activities

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Seminars

QQ: 749389476

Total hours: 12 hours

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Offerings:

- Applies to all offerings

Studio activities

Total hours: 24 hours

Offerings:

- Applies to all offerings

Workload requirements

Workload

Minimum total expected workload to achieve the learning outcomes for this unit is 144 hours per semester typically comprising a mixture of scheduled online and face to face learning activities and independent study. Independent study may include associated reading and preparation for scheduled teaching activities.



Availability in areas of study

Software development
Software engineering

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