# MADT5234 - Test 2 Topics

### Date and time:

See Moodle

• Start time: 10:00am.

## Test type

• PART 1: Written - pencil and paper

PART 2: Practical - lab based

### **Allowed Materials**

• PART 1: more than one pencil, paper, eraser, sharpener

• PART 2:

- o your own laptop or college system
- o Class notes in moodle
- o Google
- NO EMAIL, WHATS APP WEB, MOBILE DEVICES, OR OTHER COMMUNICATION DEVICES/WEBSITE/SOFTWARE

Internet is permitted in the practical portion AS SYNTAX REFERENCE ONLY

EXCESSIVE COPY AND PASTE FROM INTERNET

= ACADEMIC DISHONESTY & REPORTED TO

ACADEMICS DEPARTMENT

= AUTOMATIC 0

# **Test Topics**

- Using Git to create local & remote repositories, committing and pushing to remote repo
- Postman for Automated API testing → see class recaps in Moodle
- Android:
  - Automated unit testing with Junit and/or Robolectric
  - o Automated ui testing with Espresso and/or Robolectric
- IOS
  - Automated unit testing with xcTest
  - Automated ui testing with xcUnit
- TDD Test Driven Development
  - Building apps & unit tests with TDD
  - o Red-Green-Refactor
- [TBD] Javascript
  - o Behaviour driven test with Jasmine/Mocha/Karma/Jest
- Formal Black Box testing
  - Equivalence testing
  - Boundary value analysis
- Formal White Box testing
  - Equivalence testing
  - Boundary value analysis
  - Statement testing
- Code coverage tools
  - O What is code coverage?
    - % of code that is tested through your test cases
    - Which parts of you code has been tested
    - Which parts are NOT tested
  - o IOS XCode Code Coverage Tool
  - Java ECLEmma Code Coverage