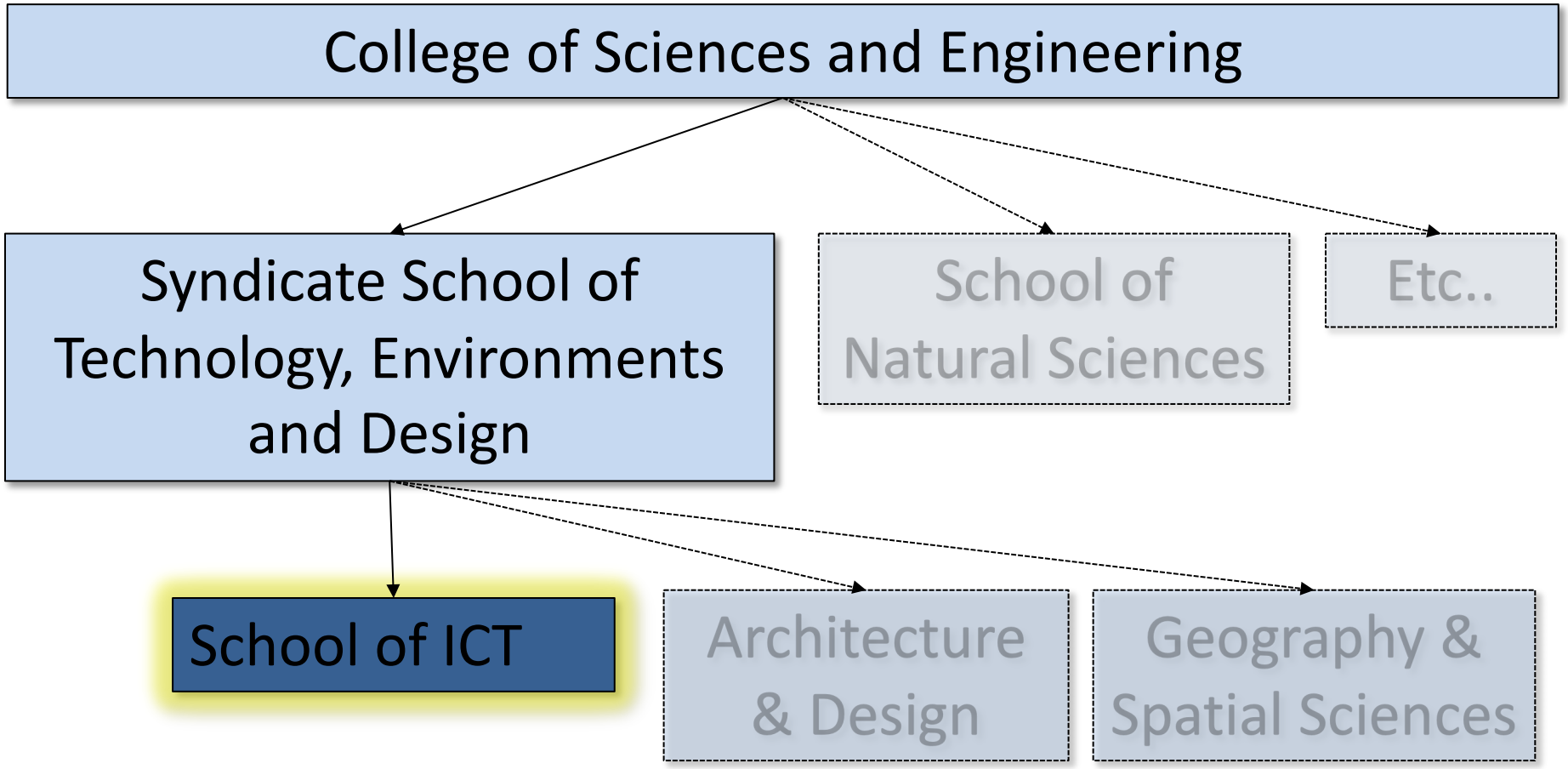
KIT100 Programming Preparation

Lecture One:

- *Introduction to the University and School.*
- *Introduction to the Unit KIT100.*

Unit Coordinator: Son Tran

UTAS and the ICT



Student Administration

- Hobart – Morris Miller Library
- Launceston – Centre of campus
- Cradle Coast – Same building as Uni Gym and Cafe
- Help with changing enrolment
- Form to request re-assessment
- General queries about UTAS

***Please check UTAS student support page during COVID-19**
https://www.utas.edu.au/communications/coronavirus-update/students

Can I go on campus?

Help desk

- ICT Discipline Help Desk
  - Hobart – Level 3 Centenary Building
  - Launceston – back of Building V
  - Cradle Coast – Learning Hub
- Access to School Labs - issues with logging on, issues with ICT account, local lab issues

- **Email Enquiry:**
  - ICT L&T Admin LTAdmin.ICT@utas.edu.au
  - BICT Enquiry bict.ict@utas.edu.au

Reception

- General queries, e.g., how to find staff, rooms etc
- ICT Discipline Reception
  - General assistance
    - Hobart – Level 3 Centenary Building
    - Launceston – front of Building V
    - Cradle Coast – talk to local ICT tutor
- Enrolment advice (and anything else student-related)
    - Hobart – Morris Miller Library
    - Launceston – Student Centre
    - Cradle Coast – Student Centre
- **Diploma of University Studies** advisors
  - Launceston: Allen Baird – Allen.Baird@utas.edu.au
  - Hobart: Dominic Lennard – Dominic.Lennard@utas.edu.au
  - Cradle Coast: Mike Harris – Mike.Harris@utas.edu.au

Library

- http://www.utas.edu.au/library
- Books, Journals, Readings
- Small group working rooms
- Computers
- Client Services Help Desk (Student Services support, Central IT support)
  - Ticketing system – Queue & take a number
    - https://www.utas.edu.au/service-desk
  - ID and Building Access Cards
    - http://www.utas.edu.au/students/admin/id-and-access

ICT Computer Labs

- You can use any ICT lab[1] to do assignment work when not being used for tutorials (*if a tutorial is scheduled, politely ask the tutor if you can use a computer*)
- **No food and drink in labs**
- Keep the noise level down – be considerate of others
- After hours access is available with an access card

[1]PC labs in **Centenary 372, 376, Maths 254** and Building V **190, 193** are not general access

ICT Computer Labs – after hours

- For after hours access: you need to do the STUDENT Work, Health & Safety (WHS) module in MyLO:
  - See https://www.utas.edu.au/safety-and-wellbeing/students (you need to do *Work Health and Safety Induction and Training 2021*)

1. If you don't already have one, go to the student centre and organise your student card – from 2020 the student card is also used as a security access card;
2. **Complete** the WHS student module quiz and wait for the certificate to be emailed to you;
3. Take your student card and the certificate to the **help desk** in Building V (Launceston) or **reception** in Centenary Building (Hobart).

   Cradle Coast – see the student centre.

It will take approximately 24 hours after that for your card to have after hours access to the doors in relevant campus building.

UTAS Support Services

- http://www.utas.edu.au/students/learning
- Career Development and Employment
  - Counselling
  - Cross Cultural Support
    - English Language Centre
    - International Services
  - Disability - http://www.utas.edu.au/students/shw/disability
    - Learning Access Plan

Submitting Assignments

At University and even within our discipline there are many ways you will be asked to submit an assignment

- Via MyLO
- Via a special folder on a network server
- Physically printed and put in submission box
- Bring to a tutorial

- **Read the instructions on the assignment**
- **All** assessed work must have an assignment cover sheet – indicating that the work is your own

KIT100

- **All** submitted work is via MyLO (with implicit authorship indication)

Asking for Extensions

- You should start working on your assignment as early as possible
  - It is not advised to be left to the week it is due
- Extensions are not granted lightly
- To get an extension you need:
  - a medical certificate or other official documentation
  - letter from employer that increased work load was unexpected
- An extension might be granted for period of incapacity
  - e.g. 1 day medical certificate = 1 day extension
- Submit / email extension form request to unit coordinator.
- Extensions are not granted because other assignments are due at the same time
  - Use good time management
  - Start early

Collecting Assignments/Tests

- In general:
  - Assignments and tests will generally be returned in tutorials/lectures or via MyLO
    - Results are generally released via MyLO
  - If you miss the tutorial, then you may be able to collect your assignment or test from:
    - Your tutor
    - Your lecturer

- **KIT100**
  - all feedback is via the MyLO gradebook, your tutor in the tutorials, or via tutor/lecturer consultation times / emails.

Review of Assessment

- Wait for your assignment to be returned
  - Normally within 3 weeks of due date
- Read any feedback
  - Sometimes verbal class feedback can also be given in lectures or tutorials
- If need more information, see the lecturer (or local tutor) during consultation hours
- If unsatisfied, request a review
  - Request must be within 5 days of release of result (10 days if it is the final result for the unit)
  - Generally review is undertaken by an alternative assessor

Consultation with Lecturers

All lecturers and tutors are available for consultation

- Consultation hours are advertised on resources page:
  - *ICT Staff Consultation Times*, *ICT Extra Unit Consultation* :
    - http://www.utas.edu.au/technology-environments-design/ict/current-student-resources
- You can email a lecturer/tutor for an appointment at another time if necessary
- Lecturers/tutors can do consultation via email / Zoom
- Generally consultation is not available on non-teaching weeks.

ICT People you might need

- Head of School – Professor Anna Shillabeer
- BICT Degree Coordinator – Erin Roehrer
- Help desk staff – Terry, Curtis, Rob (Hobart), Alan (Launceston)
- Receptionists – Kris Purton (Hobart), Karen Hughes (Launceston)

Teaching Pattern Variations

Units use different weekly teaching patterns:

- 3 hour lecture, 1 hour tutorial
- **2 hour lecture, 2 hour tutorial**
- 1 hour lecture, 1 hour learning modules, 2 hour tutorial

- All units require more time for self study and assignment work
- Encourages more active learning

- **Attend all lectures**
  - Most lectures are recorded and accessible from MyLO
  - Attendance records are not kept, but it's in your best interest to attend.
- **Attend all tutorials**
  - Many tutorials include assessment
  - **KIT100 Tutorial attendance is recorded**

Exams

- Semester exams are held in June and November
- Exams are 2 hours or 3 hours long
- You need to keep up with materials/content
  - Do not leave all learning modules to the end
- Previous exam papers are available via the library
  - Your lecturer will tell you which ones are relevant
- Exams allow different materials to be taken in

No end of semester exam for KIT100!

University Website

- **www.utas.edu.au/students**
  - e.g. Study assistance http://www.utas.edu.au/students/learning
- eStudent – https://estudent.utas.edu.au
  - online student administration portal for students to self-manage their enrolment
- Key Dates - http://www.utas.edu.au/key-dates
- Class Timetable - http://student-timetable.utas.edu.au
- Course & Unit Handbook - http://www.utas.edu.au/courses
- Service Desk – http://www.utas.edu.au/service-desk
- UTAS email (Office 365) – http://www.utas.edu.au/webmail
  - **Read EVERY DAY**! We often send updates about scheduled tests, task due dates etc via email.

ICT School Website

- https://www.utas.edu.au/technology-environments-design/ict

- Current Student Resources Page
  - Unit Outlines
  - Assignment Guidelines
  - Late assessment Policy
  - Staff Consultation Times
  - ICT Timetable
  - ICT Tutorial Allocation
  - ICT Kiosk (Synchronise your UTAS & ICT Passwords)

KIT100
Programming Preparation

Unit Purpose

- To provide an introduction to computer programming and its role in problem-solving. The fundamental concepts of programming will be introduced.
- To engage students in gaining practical skills and abilities as well as an understanding of general purpose programming.
- To be able to complete *basic programming* in **Python**.

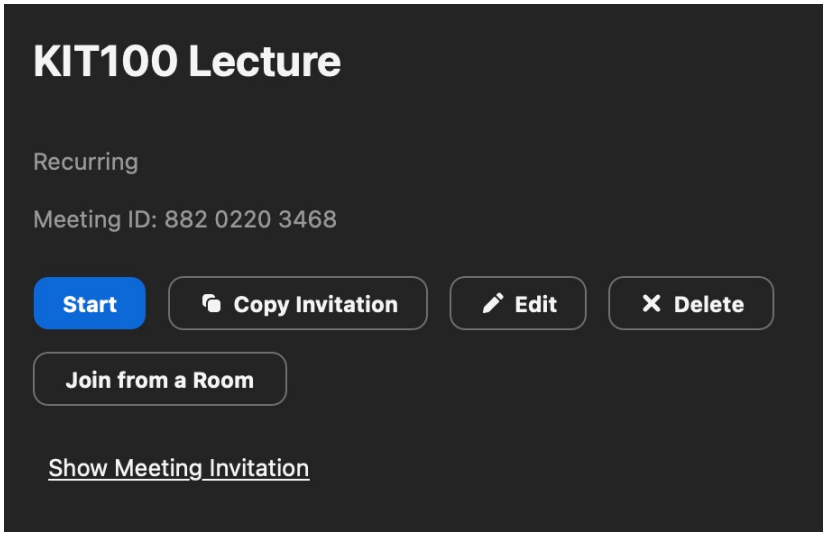
Teaching Team

Lecturing staff

- **Hobart** & **Launceston** & **Cradle Coast**:
  - Son Tran sn.tran@utas.edu.au

Tutoring staff

- **Hobart** & **Launceston** & **Cradle Coast**:
  - Jamal Maktoubian jamal.maktoubian@utas.edu.au, Son Tran[support]

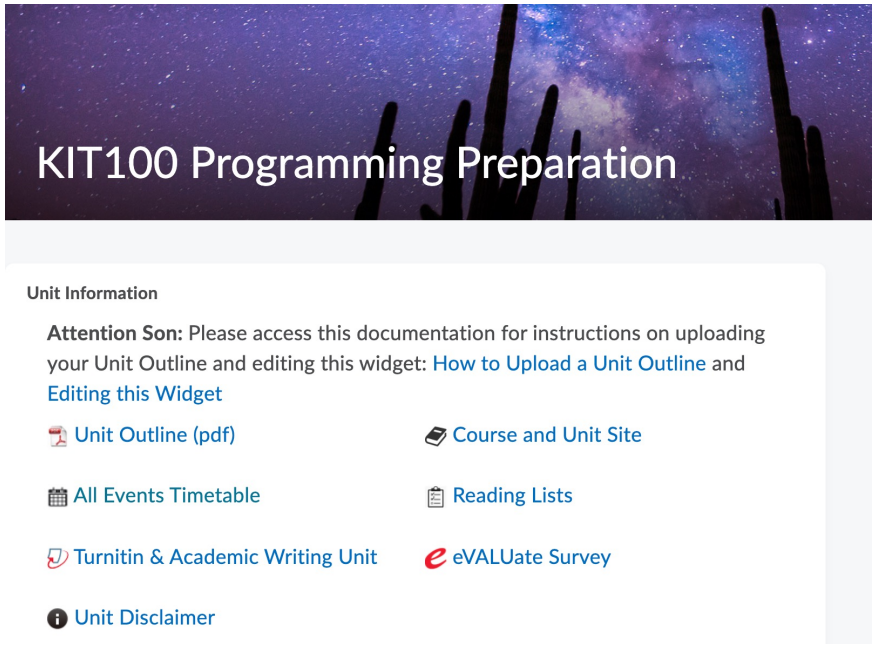


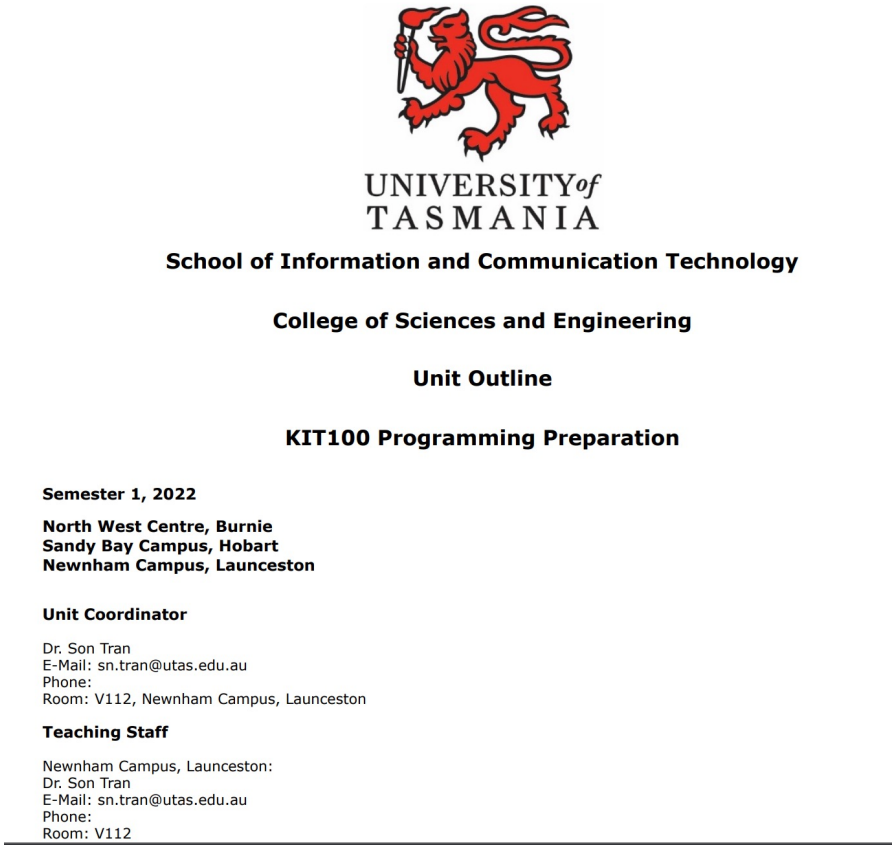
Consultation times

- Online Zoom meetings.
- Make an appointment by email for online consultation.

Unit Outline

- A **unit outline** sets the “rules” for a unit
- Unit Outline is available online at:
  - KIT100 MyLO site
  - https://mylo.utas.edu.au





UNIVERSITY of TASMANIA

School of Information and Communication Technology

College of Sciences and Engineering

Unit Outline

KIT100 Programming Preparation

Semester 1, 2022

North West Centre, Burnie
Sandy Bay Campus, Hobart
Newnham Campus, Launceston

Unit Coordinator

Dr. Son Tran
E-Mail: sn.tran@utas.edu.au
Phone:
Room: V112, Newnham Campus, Launceston

Teaching Staff

Newnham Campus, Launceston:
Dr. Son Tran
E-Mail: sn.tran@utas.edu.au
Phone:
Room: V112

Unit resources

MyLO

- Introductory Programming Notes
- Lecture slides & code
  Tutorial slides
  - Recorded & live recorded lectures/tutorials
- Portfolio Tasks
- Submission folders
- Grades

Links of recorded lectures will be available in MyLO

Unit Learning Outcomes

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

1. Select and interact with appropriate tools and techniques to analyse, model, and develop basic software solutions;

2. Use problem solving to identify and define an algorithm, apply knowledge of ICT principles and technical skills to develop a potential solution;

3. Design, implement, and evaluate a program to meet desired needs.

Content - Lectures

- Week 1: Introduction
- Week 2: Introductory Programming Concepts
- Week 3: Storing and Modifying Data
- Week 4: Managing Data & Making Decisions
- Week 5: Repetitive Tasks
- Week 6: Functions
- Week 7: Working with Strings & Lists
- Week 8: Reading and Writing Files, Dictionaries
- Week 9: Creating & Using Classes
- Week 10: Graphical User Interfaces (GUI) part 1
- Week 11: Graphical User Interfaces (GUI) part 2
- Week 12: Interacting with Modules

Teaching Pattern

- **Lectures** – Around 2 hour per week

  Time: Tuesdays 12:00pm-2:00pm

  Venue: Zoom (Meeting ID: 882 0220 3468)

- **Tute Classes** – 2 hours (Tutorial) per week
  - Students work on ***portfolio tasks***
  - Take notes for the ***reflection report***
  - Prepare for tests (compulsory **test 1 and 2**; optional for HD+ task)
  - Review lecture material
  - Tutor will assess student‘s initial/final work and provide feedback via MyLO submission

Tute Classes - Tutorials

- **Tute Classes**
  - tutorial will commence week 2
  - tutorial will run each weak for around 2 hours
- Attendance is recorded

- Time & Venue

Tute 1 (Wednesdays) 10:00am – 12:00pm. Zoom ID: 853 9327 9874

Tute 2 (Thursdays) 04:00pm – 06:00pm . Zoom ID: 853 9327 9874

- **Consultation:** Starting from week 3

- Time: TBD – please see MyLO announcement
- Venue: Zoom meeting room

KIT100 Assessment schedule

Task	%	Due date
Portfolio tasks	60%	5pm Friday of Week 13, but submit throughout semester*
Test 1	10%	During Week 7
Test 2	10%	During Week 11
Learning reflection report	9%	5pm Friday, Week 13
HD+ task (test 3)	11%	During Week 13

**Tasks should be initially submitted the week they are due via MyLO (week 7, 12, and 13)*

Assignment	Completion Status	Score	Evaluation Status	Due Date
Pass (PP) Tasks				
1.1PP Getting Prepared	Not Submitted	- / 1		16 April, 2021 17:00
1.2PP Hello World	Not Submitted	- / 1		16 April, 2021 17:00
3.1PP	Not Submitted	- / 1		16 April, 2021 17:00
3.2PP	Not Submitted	- / 1		16 April, 2021 17:00
4.1PP	Not Submitted	- / 1		16 April, 2021 17:00
4.2PP	Not Submitted	- / 1		16 April, 2021 17:00
5.1PP	Not Submitted	- / 1		16 April, 2021 17:00
5.2PP	Not Submitted	- / 1		16 April, 2021 17:00

Assessment – Task overview

- MyLO – KIT100 - Content - Portfolio Tasks - ‘Task Overview’

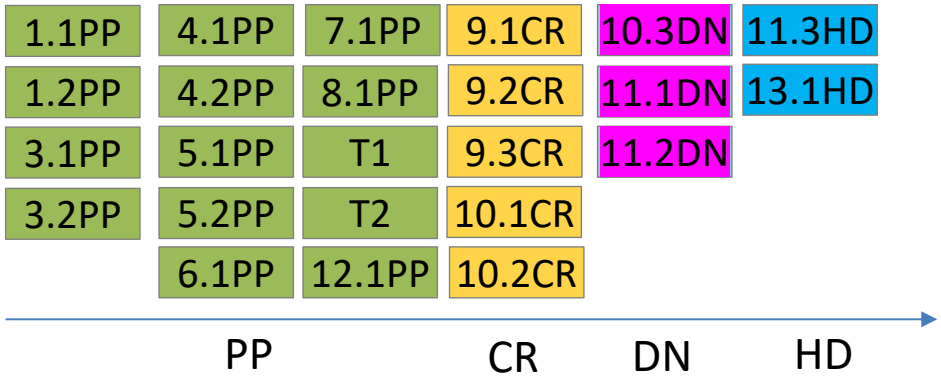
Show only tasks required to reach: PP CR DN HD

Task colours: PP task | CR task | DN task | HD task

Task		Weeks 1- 13	1	2	3	4	5	6	7 Due	8	9	10	11	12 Due	13 Due
1.1PP	Getting Prepared		1.1PP												
1.2PP	Hello World		1.2PP												
3.1PP	Simple Calculation Expression				3.1PP										
3.2PP	User Input				3.2PP										
4.1PP	Decision Making					4.1PP									
4.2PP	Decision Making with Ranges					4.2PP									
5.1PP	Looping (for)						5.1PP								
5.2PP	Looping (while)						5.2PP								
6.1PP	Loops (for and while)							6.1PP							
T1	Test 1 ✎								T1						
7.1PP	Functions and parameters								7.1PP						
8.1PP	More Complex Functions									8.1PP					
9.1CR	Lists										9.1CR				
9.2CR	List Operations										9.2CR				
9.3CR	Error Identification										9.3CR				
10.1CR	Code Completion											10.1CR			
10.2CR	Class Definition											10.2CR			
10.3DN	Class Definition and Usage											10.3DN			
T2	Test 2 ✎												T2		
11.1DN	GUI statements												11.1DN		
11.2DN	GUI												11.2DN		
11.3HD	Complex Class Definition and Usage												11.3HD		
12.1PP	Learning Reflection Report													12.1PP	
13.1HD	HD+ Task (test 3)														13.1HD

Assessment - Task overview

- You will produce a **portfolio** of work
- Each item is
  - associated with a particular grade
  - a learning task that
    - you will receive feedback on
    - needs to be completed to a good standard to be considered complete



- You will also do **two tests** (T1, T2) on basic pass-level skills
- A student who does not attempt Test 1 or Test 2, and does not submit the learning reflection report (12.1PP) will received an absent, deemed failed (AN) grade.

Assessment - Outcome

Each task will have criteria for being accepted, and may be assigned one of these statuses

Overdue	Due date has passed; submit final version later
Fail	Does not satisfy criteria and no time to resubmit
Redo/Resubmit	Issues to address before resubmitting
Discuss	Discuss with tutor, demonstrate software
Completed	Task is complete to required standard

You need to achieve the "completed" sign to get marks.

Final Grade

To pass you must **complete**:

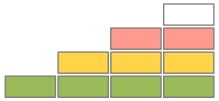
- all pass-level tasks
- Test 1, Test 2 & the learning reflection report

Completed		
1.1PP	4.1PP	7.1PP
1.2PP	4.2PP	8.1PP
3.1PP	5.1PP	T1
3.2PP	5.2PP	T2
	6.1PP	12.1PP

Passing grades are determined by which task levels are complete:


PP = Pass (50+)


PP + CR = Credit (60+)


PP + CR + DN = Distinction (70+)


PP + CR + DN + HD = High Distinction (80–100)

*You must complete **ALL** PP green tasks to pass the unit.*

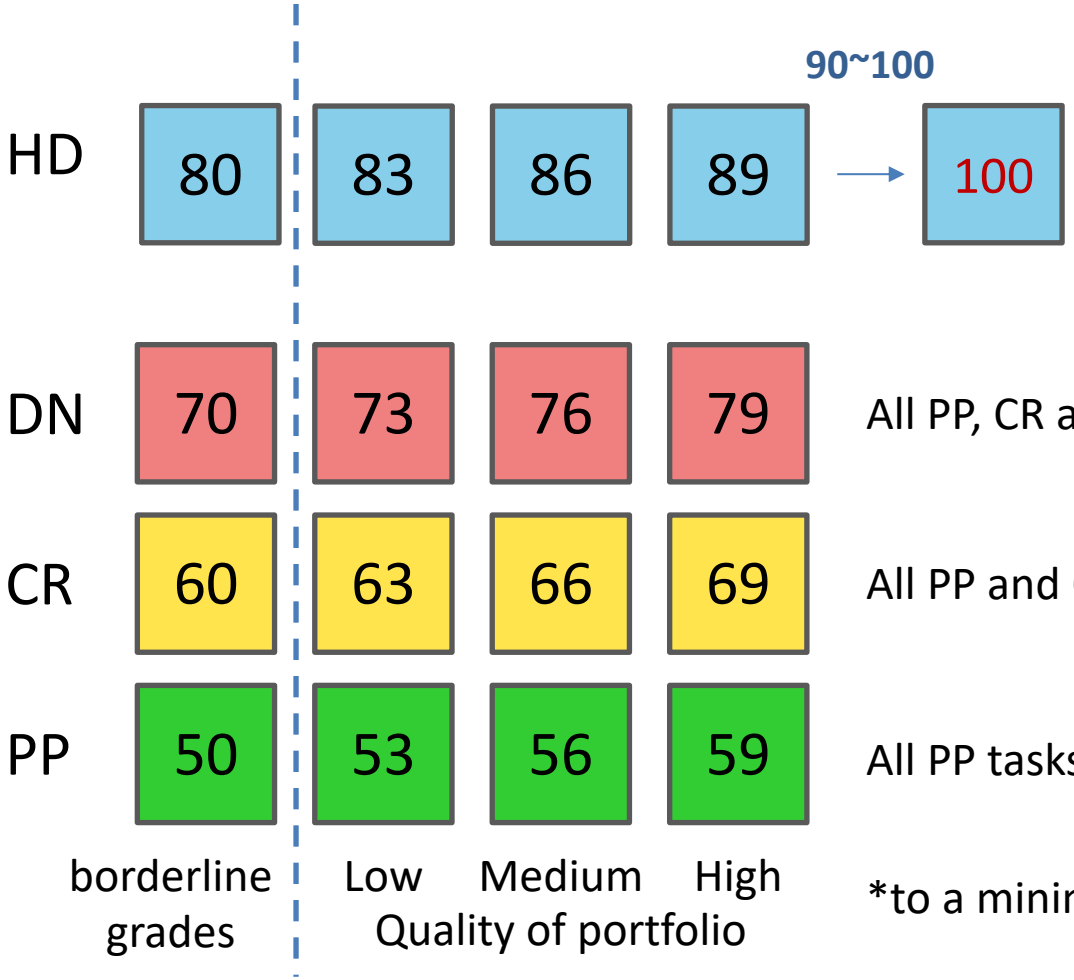
12.1 Learning reflection report

Mark within a grade determined by quality of portfolio and learning reflection report

Final Grade

If a student does not meet the minimum standard to pass (that is, completing all pass-level tasks, T1&2 tests and the reflection report) then their final mark (0 - 49) will be proportionally determined based on which pass-level tasks have been completed.

Final Grade



HD task complete, *perfect HD+ task (test 3)*
All PP, CR, DN tasks complete*

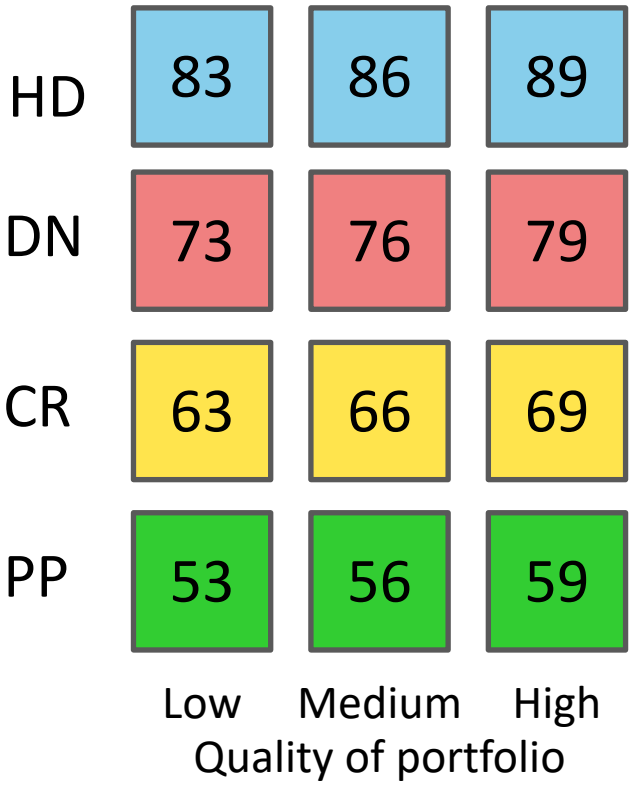
All PP, CR and DN tasks complete*

All PP and CR tasks complete*

All PP tasks complete*

*to a minimally acceptable standard

Final Grade



All necessary tasks marked as “Completed” during semester (which establishes the grade), then…

Quality of portfolio

Low: Some **issues with the quality of the work** in the portfolio or **learning reflections** are **poorly communicated**

Medium: Portfolio **work demonstrates the minimally acceptable standard**, with **reasonable reflections** and **communication of the learning achieved**

High: Portfolio **work demonstrates the acceptable standard**, and the **reflections** and quality of tasks are **well presented and communicated**

Test 1 and test 2

- Individual tests, mainly multiple-choice questions
- 60 minutes each
- During week 7 and week 11. You **must** attend the **both tests** (Utas standard extension rule apply)
- Flexible time to complete (or the tutorial time), covering fundamental pass-level skills for the unit.
  - The test is assessed as pass/fail, but students near to passing will have the opportunity to correct their mistakes (and discuss their corrections with their tutor), while students receiving a fail grade will have the opportunity to resit a variant of the test later in semester.
- Worth 10% each

Learning reflection report

- Individual task
- Worth 9%
- A brief report on what your thoughts are in regard to your progress, outcomes, good/bad parts of the unit, and what you would have changed in hindsight using the supplied report template (*fill in the blanks*).
- The quality of this reflection determines your numerical grade (an additional 1-9%) within the grade for which you have qualified (based on the portfolio tasks completed).
  - 1..3 low quality, 4..6 medium quality, 7..9 high-quality
- Students seeking an HD will need to submit this report by Week 12, prior to their HD interview.

HD+ task (test 3)

- Individual task
- 15 minutes
- Worth 11%
- To be held in Week 13
- For students qualifying for HD only: a brief 10-min closed-book mini test. You are given a programming task to complete (pen and paper)
- Arrange a time in weeks 12/13 with your tutor.

Attendance and Engagement

- Attending all lecture and tutorial sessions is strongly recommended, and your attendance will be monitored throughout the semester.

- In this unit, your **active engagement** will be monitored in the following way:
  1. Attendance at tutorials in weeks 2-4
  2. Submission of all Week 2 pass-level tasks and Week 3 pass-level task (the tasks do not need to be marked as complete by Week 4, only submitted for feedback)

Learning Access Plan

- Some students require extra help or assistance
- You can approach student services for assessment for a learning access plan (LAP)
  - Requires medical assessment
- If you have a LAP you must give a copy to all your lecturers

Plagiarism

- http://www.utas.edu.au/curriculum-and-quality/academic-integrity-and-misconduct/for-students
- Using words, ideas, computer code, or any work by someone else without giving proper credit is academic dishonesty.
- Academic dishonesty is often referred to as plagiarism.
- While studying at University you are expected to submit work that is your own.
- The intentional copying of someone else's work as one's own is a serious offence punishable by penalties that may range from a fine or deduction/cancellation of marks and, in the most serious of cases, to exclusion from a unit, a course or the University.

Questions?