ETC5523: Communicating with Data

Information

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📅 Week 0

🌐 cwd.numbat.space

👩🏻‍🏫 ETC5523 Teaching Team

Dr. Michael Lydeamore

Lecturer & Chief Examiner

Cynthia Huang

Tutor

Janith Wanniarachchi

Tutor

ⓘ **Contacting the teaching team**

- For private matters, contact michael.lydeamore@monash.edu using your Monash student email and citing the unit name.

- For non-private matters, you should post this in the Moodle discussion board.

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Most material in this course was developed by

Dr. Emi Tanaka

Emi is a guru of data communication, and I highly recommend checking out her website content and academic work.

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🎯 ETC5523 Learning Objectives

> ⊙ **Learning objectives**
>
> 1. Effectively communicate data analysis, using a blog, reports and presentation.
>
> 2. Learn how to build a web app to provide an interactive data analysis.
>
> 3. Learn to construct a data story.

> ⓘ **Specific outcomes**
>
> After this unit, you should be able to:
>
> - understand and apply the elements of effective communication,
>
> - **host R Markdown HTML outputs online** for blogging, reports or other purposes,
>
> - be more confident with web technologies (**HTML/CSS**),
>
> - make a **Shiny web app**, and
>
> - build an **R package**.

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🏛️ ETC5523 unit structure

- **2 hour lectures** are *interactive sessions*:

  - during the lecture we *demonstrate*, *discuss* and *complete tasks* in small groups

- **1.5 hour tutorial** → only go to the one you are assigned to!

🪵 Materials

> ⓘ **Unit website**
>
> 🔗 cwd.numbat.space

- Lecture slides and tutorial materials are available on the unit website

- Lecture videos and assessments will be available on Moodle

> ⓘ **Note**
>
> Materials are designed to develop your **hard and soft skills**.

✋ Consultation hours

- A total of **2 hours of consultation** *each week*

- See Moodle announcement for the Zoom links for the consultations

- *Seek help early and often*!

- For coding issues, check out this guide[1] to make it easier for others to help you

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1. We will be going through this shortly

💯 Course assessments

- **Week 5**: *Assessment 1* (20%) develop and showcase a Shiny web app

- **Week 7**: *Blog entry* (10%) write a data story on the web

- **Week 8**: *Video group discussion* (5%) critique and reflection

- **Week 10**: *Assessment 2* (20%) develop and showcase an R-package

- *Oral exam* (30%) on week starting **24 Oct** on the technical aspects of HTML/CSS, Shiny apps and R-packages

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🏁 Expectations Part 1

- Attend lectures and assigned tutorials

- *Minimum* total expected workload is 144 hours, that's 12 hours each week or **8.5 hours of self study per week**

- Check the unit homepage and unit Moodle page often

- ETC5513 (or equivalent) is a prerequisite → you need to catch up *fast* if you're not confident

- Install the latest R and RStudio IDE (or your chosen IDE that has the ability to run R code)

- For the in-person tutorials, bring your own laptops

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🏁 Expectations Part 2

🏃 Be an active learner!

> *An **active learner** asks questions, considers alternatives, questions assumptions, and even questions the trustworthiness of the author or speaker. An active learner tries to generalize specific examples, and devise specific examples for generalities.*
>
> *An active learner doesn't passively sponge up information — that doesn't work! — but **uses the readings and lecturer's argument as a springboard for critical thought and deep understanding**.*
>
> *– Spencer (2022) Data in Wonderland*

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