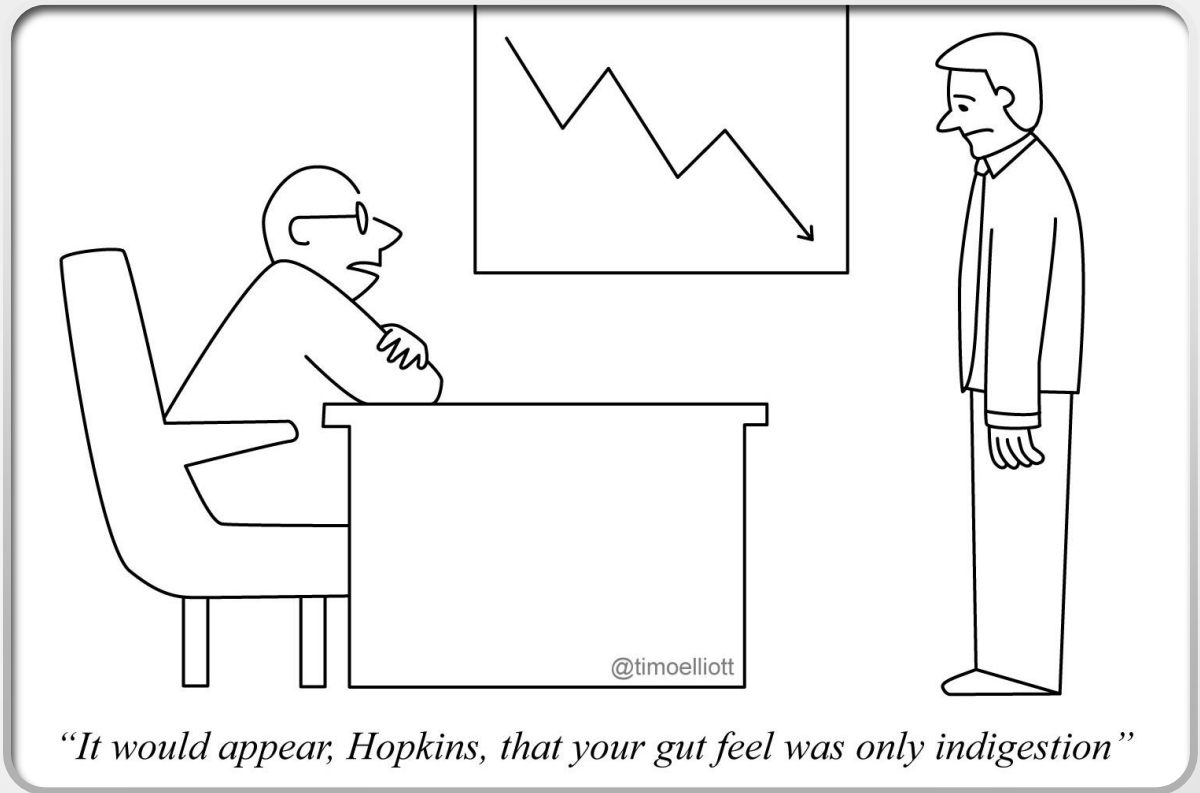# Course Outline

COMP8811 — Data Analytics and Intelligence

Dr Neda Sakhaee

I don't want to be Hopkins!

Welcome to COMP8811!

In **COMP8811,** you will be learning about

?

Neda Sakhaee

- PhD, Computer Science, The University of Auckland

- MEng, Transportation Engineering

- BEng, Industrial Engineering and Management

Neda Sakhaee

LinkedIn

Google Scholar

Course Structure

- **Lectures**

  Exploring concepts, terminology and ideas.

- **Class Activities and Assignments**

  Applying concepts through exercises and assignments.

  Sharing knowledge by student-led seminars

Course Structure

Link to COMP8811 course Moodle page:

COMP8811

Syllabus

- Introduction to data analytics and intelligence

- Software tools and platforms

- Data warehousing and dimensional modelling

- Time series analysis and trend forecasting

- Data mining and machine learning

- Expert systems

- Fuzzy logic

Assessments

#	Title	Weight
1	Assignment 1 (Group)	40%
2	Assignment 2 (Individual)	60%

Course Material

- **Lecture notes and slides**

  Lecture Notes

  By Neda Sakhaee

  Available on Moodle

- **Book**

  Adaptive Business Intelligence,

  By Martin Schmidt et al.

  Online version available in the library

Course Requirements

- Attend all classes.
- Participate in all class activities.
- Participate in all assessments.
- Plan for your self-directed learning time.
- Respect Te Noho Kotahitanga!

Self-directed Learning

- Each of your courses requires approximately 150 learning hours per semester.

150 – 32 = 118 hrs

118 ÷ 16 ≈ 7.5 hrs

- Schedule 7.5 hours/week for self-directed learning.

- Stick to your schedule.

Self-directed Learning

What activities to do for self-directed learning?

1. Getting ready for the next class.

2. Reviewing previous lessons and videos.

3. Working on the post sessional material posted to the Moodle page.

4. Working on assignments.

Te Noho Kotahitanga

Te Noho Kotahitanga invites us collectively to work together as a whanau and community of staff and students using the five principles to guide our behaviour:

1. Rangatiratanga (Authority and Responsibility)

2. Wakaritenga (Legitimacy)

3. Kaitiakitanga (Guardianship)

4. Mahi Kotahitanga (Co-operation)

5. Ngākau Māhaki (Respect)

Te Noho Kotahitanga

Rangatiratanga (Authority and Responsibility) is about showing respect for that knowledge rather than dismissing it as not relevant to current practice.
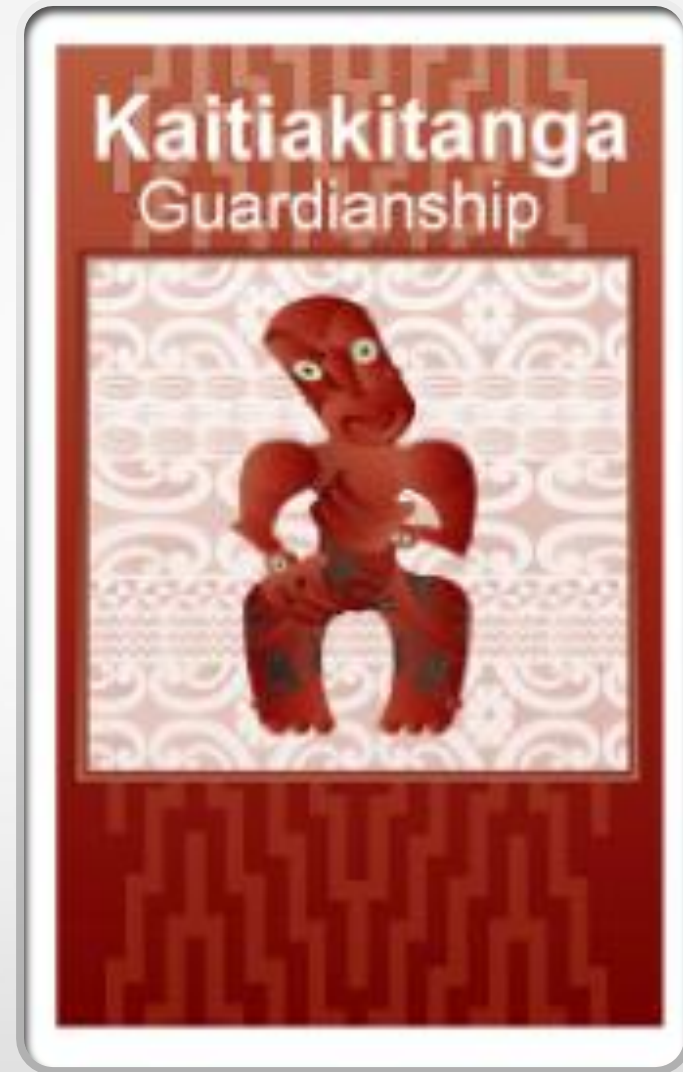
Te Noho Kotahitanga

Wakaritenga (Legitimacy) acknowledges all knowledge has value including Māori knowledge for example when the Māori translation of words and names are included, it is legitimate to do so because Te Reo Māori is one of New Zealand's three national languages.


Wakaritenga
Legitimacy
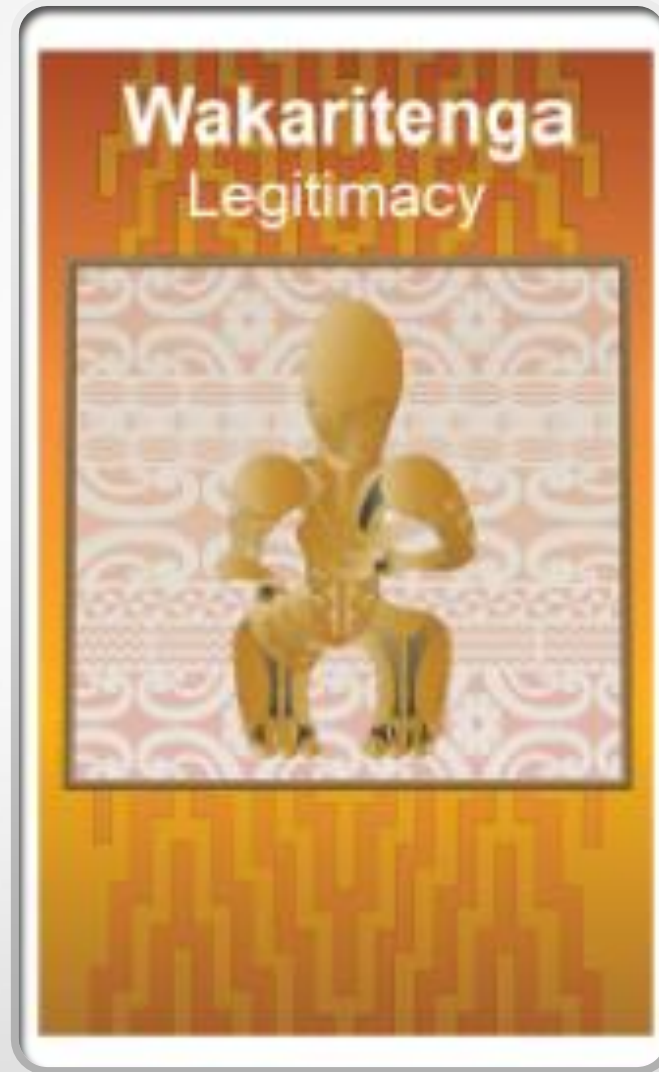
Te Noho Kotahitanga

Kaitiakitanga (Guardianship) calls upon everyone at Unitec to act as guardians of knowledge. This means all knowledge is valued and, also, up for critique, with the outcome always about learning.


Kaitiakitanga
Guardianship

Te Noho Kotahitanga

Mahi Kotahitanga (Co-operation) is about working together for example group work, online discussions, group assignments.
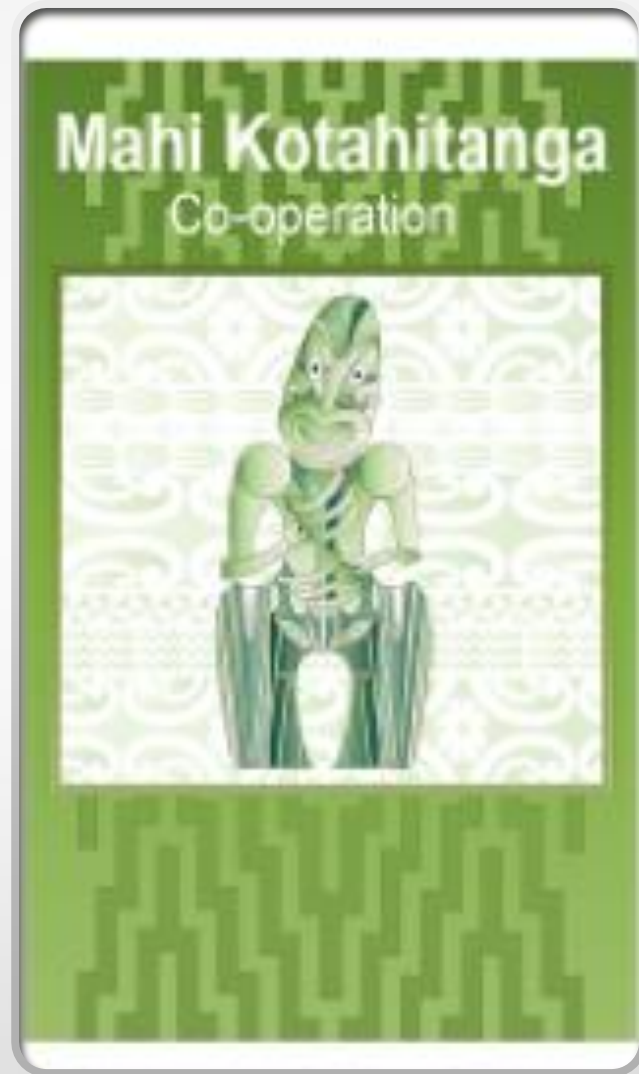
Te Noho Kotahitanga

Ngākau Māhaki (Respect) asks everyone at Unitec to respect each other no matter their culture, ethnic group, the clothes they wear, number of tattoos, religion, haircut, and in the case of Māori, the knowledge they bring to the community.
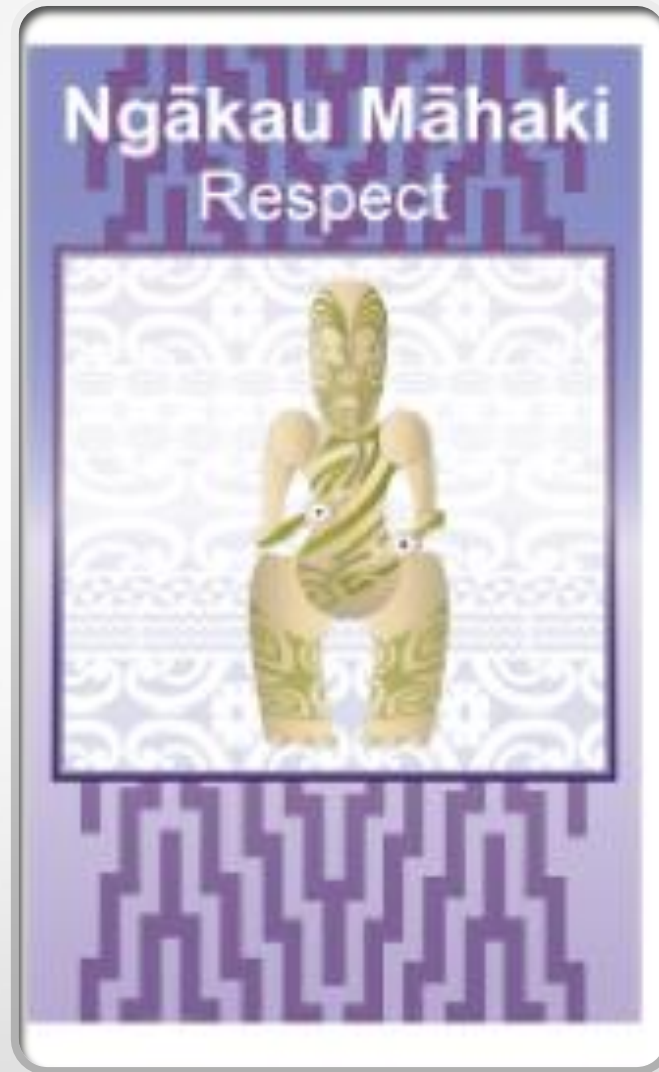
TNK Class Activity

- Wakaritenga (Legitimacy) acknowledges all knowledge has value!

- What are the knowledge, skills or expertise that you can bring to this class?

- For example, I can say:

Teaching Experience

Domain Knowledge

Problem Solving Skills

Class activity – 30 min

Reviewing the overall results, think about examples of how you can bring these expertise to the class.

Discuss your examples in your team.

Share your examples with others when you are ready.

Break

15 min