# Master of Technology

## Computational Intelligence II

# Continuous Assessment 1: GA Modelling

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# GA Modelling

- Choose a problem which can use a GA solution
  - Best – from your workplace
  - Or you can create one
  - Or you can extend the exercise problems
- Describe the problem as precisely as possible
- Argue why GA is a suitable technique
- Describe the chromosome representation
- Describe the fitness function
- Describe how you handle hard and soft constraints
- Describe the crossover & mutation operators

# GA Modelling

- Collect real data or generate some mock-up data
- Develop a GA model using Excel-Solver or other GA tools
- Run the GA model with the data
- Tune GA parameters to optimize the results

# CA1 Instructions

- 3 - 5 students per team

- Submission: (soft copy) (20 marks)

  A report to describe
  - Problem
  - GA model
  - Results on real or mock-up data
  - your understanding and findings

- Maximum 20 pages
- Submission deadline: Sunday 21 Oct 2018
- **Please submit your report to IVLE KE5207 Files / Student Submission / GA CA (Fangming)**