



MECH5170M

Connected and Autonomous Vehicles Systems

Revision and Feedback

Kris Kubiak (k.kubiak@leeds.ac.uk)



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UNIVERSITY OF LEEDS

Revision

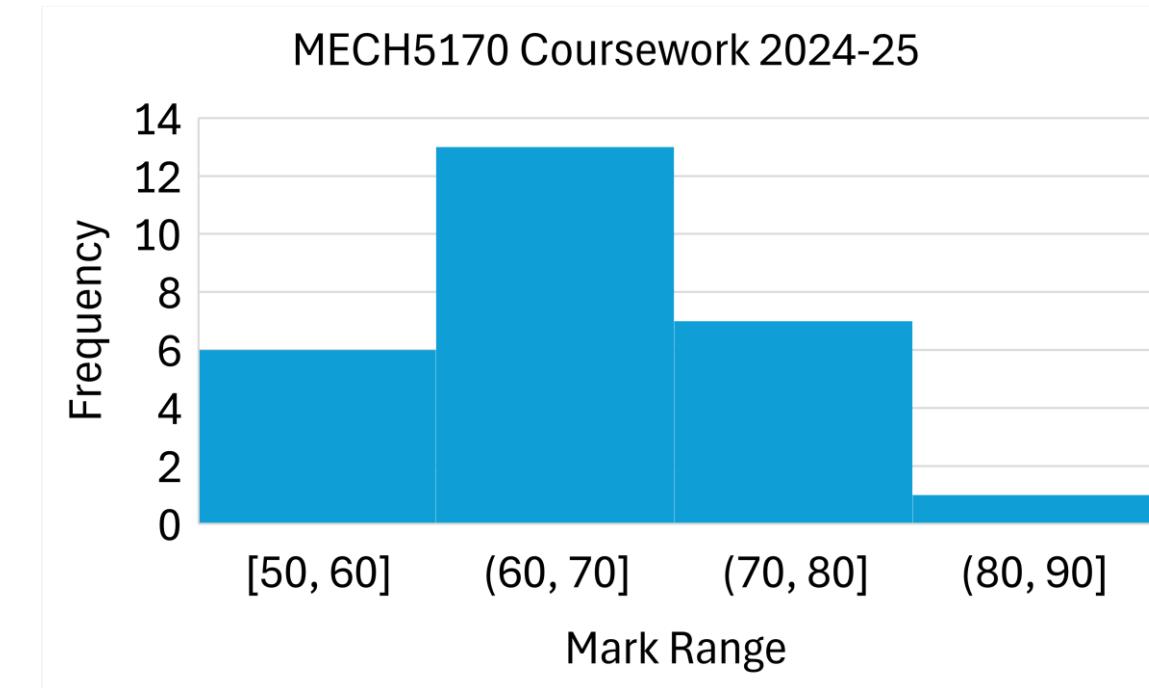
Individual project 50% (Design of CAV)

Average mark 65.5

- Individual Report

2 hours in-person exam 50%

- Mix of theory based questions and some calculation based question
- Take **approved calculator** with you
- Short descriptive and analysis questions
- If you are not sure about the data provided, please make reasonable assumptions



Topics covered in the module material:

- W1 Introduction & Levels of autonomy
- W2 Regulation and legal requirement, Driving Assistance Systems
- W3 Actuators and automation, Drive-by-Wire Steering Systems
- W4 Perception System and Sensors range, Sensors Fusion, Kalman Filter
- W5 Localisation & Path Planning algorithms
- W6 Vehicle Communication & Latency of on-board and online services
- W7 Perception, and visualisation, Artificial Intelligence algorithms
- W8 Machine learning, Safety-critical systems ISO26262, MISRA C
- W9 Cyber-Security
- W10 Digital Twin, Software-in-Loop, Hardware-in-Loop



Feedback

Changes to the module for next year based on your feedback so far:

- Revised lecture material,
- More interactive lecture materials,
- More examples of calculations,
- More practical activities.



Please provide the feedback on:
<https://leeds.bluera.com/leeds>

Module Evaluation Survey MECH5170



Scan QR code below to complete your module evaluation survey.

MECH5170 Connected and Autonomous Vehicles Systems

You can also access your surveys by logging into Minerva or visiting <https://leeds.bluera.com/leeds>

Feedback is analysed
and module changes
will be introduced.



For help email TheLeedsPartnership@leeds.ac.uk

ANY QUESTIONS
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