Hello, my name is David Hymers and I am here to present an introduction to the Dynamics unit, it is an optional unit in the engineering systems course.

In this unit you are going to analyse dynamics problems such as linear motion and angular motion, with the example shown here on this lathe.

To analyse problems, you would have to write down the known quantities with the correct standard units, for example convert to meters and seconds.

Then write down what you need to find out.

Then you would write the equations of motion

Picking the correct equation, rearrange equation, put the numbers into the equation

Use scientific calculator to calculator answer

This process will help your Mathematical skills

2nd learning outcome is building on linear and angular motion theorem in the 1st outcome, which leads to Solving problems relating to impulse, conservation of momentum, work, energy and power.

After working through all the notes and examples for the two learning outcomes,

The unit is assessed by a 90 minutes closed book assessment, supervised with a formula sheet given. All possible questions will be covered in the learning material, only a sample with be assessed. The pass rate is 60% and one resit is allowed for the unit.

All of what has been said will be in a study guide for this unit with more detail.

Thank you for listening.