

HICT 31042 - 3D MODELLING AND ANIMATION

DEPARTMENT OF TECHNOLOGY
FACULTY OF INDIGENOUS HEALTH SCIENCES AND TECHNOLOGY
GAMPAHA WICKRAMARACHCHI UNIVERSITY OF INDIGENOUS MEDICINE

PRACTICE ASSIGNMENT 04 – INDIVIDUAL (SUMMATIVE) - 2025

CATEGORY: ASSIGNMENTS

NAME: ASG04

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Objectives:

- To be familiarised with part modelling environment and user interface in SolidWorks.
- To understand the fundamentals of assembly and multibody modelling.
- To understand the effect of *relations* and *dimensions* in 3D modelling.
- To learn and practice the editing tools available in sketching.

Task:

- Read the drawing and identify missing dimensions, and mistakes, if any.
- Open SolidWorks in “**Part**” mode.
- Model the following components with the given dimensions scheme.
- Save the File(s) in your home folder giving “**HICT 31042-2025-ASG04<your serial number>**” as the file name (*Save at least every 10 min. interval*).
- Learn how to match your design intentions using dimensions and relations.
- Modify the dimensions and relations and confirm whether the sketches get updated according to the desired design intention.
- Note down specific points you may think important.

Learning Outcomes:

After this assignment, you should be able to

- identify major and minor features,
- create sketches and generate features,
- identify parent-child relations,
- define the relations and apply dimensioning schemes to match the desired design intentions,
- appropriately use basic editing commands.

