TUS
Technological University of the Shannon:
Midlands Midwest
Ollscoil Teicneolaíochta na Sionainne:
Lár Tíre Iarthar Láir

Subject:	CADD06013 - Revit MEP
Course:	Building Information Modelling with Revit MEP
Session:	Spring 2022
Lecturer:	Paul Vesey BEng, MIE, HDip
Filename:	RMEP02-TUS-00-ZZ-SP-H-001-A1-P01

Assignment 2 – Duct Systems

Issue Date:	5^{th} October 2021
Submission Date:	6^{th} November 2021

Continuous Assessment Marks

This assignment will account for 25% of the 100% allocated for continuous assessment in this module
This assignment will examine the following learning outcomes:

No.	Learning Outcome	Assessed
1	Create and analyse Duct layouts in Revit MEP	Yes
2	Create and analyse Pipe Layouts in Revit MEP	No
3	Create and Analyse Electrical Layouts in Revit MEP	No
4	Co-ordinate Mechanical and Electrical Systems in Revit MEP	Yes

Excellent (70+%)	Faithful recreation of the original drawings with no errors, and shows improvements over the original drawing set
Good (56% to 69%)	Recreation of the original drawing set with some minor errors or omissions in presentation and modelling
Acceptable (40% to 55%)	Recreation of the original drawing set with numerous minor errors or omissions in presentation and modelling that could be addressed with minimal additional work
Poor (<40%)	Modelling incomplete, Views missing, Major Annotation Missing, general poor presentation of the design

Assignment Outline

You will start this assignment by creating a new Revit project based on the mechanical template. You will then have to link to the Architectural model for reference. You are required to model two duct systems, one supply system and one return system as depicted in the drawings that accompany this specification. In order to complete this work your will need to place appropriate air terminals with the flow rates modified as shown on the drawings. Both duct systems will need to be inspected and sized using the appropriate Revit tools. You are also required to create three (3) A1 drawing sheets using the LIT title block provided. These sheets should be populated with the views and schedules as shown. Duct schedules and Duct fitting schedules are to be placed on the appropriate sheets. All drawings sheets and views are to be replicated in your assignment. This will involve creating multiple similar views and changing the view properties as necessary. You will also need to make use of the tagging functionality in Revit to indicate terminal flow rates and duct sizes.

The asset pack for this assignment contains the following items:

1. LIT Title-block
2. Revit Architectural Model
3. Completed Drawing in pdf format

Submission

Upon completion, upload your Revit project file, the architectural model, and pdfs of your drawings (4 off) to Microsoft Teams on or before the submission deadline.

Upload Checklist

Item	Format	Filename
Revit File	Revit Project File	RMEP02-***-00-ZZ-M3-H-001-A1-P01.rvt
A1 Drawing	Adobe pdf	RMEP02-***-00-ZZ-DR-H-101-A1-P01.pdf
A1 Drawing	Adobe pdf	RMEP02-***-00-ZZ-DR-H-102-A1-P01.pdf
A1 Drawing	Adobe pdf	RMEP02-***-00-ZZ-DR-H-103-A1-P01.pdf
A1 Drawing	Adobe pdf	RMEP02-***-00-ZZ-DR-H-104-A1-P01.pdf