

**TUS**

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

Subject:	CADD06020 - Revit MEP
Course:	Building Information Modelling with Revit MEP
Session:	Autumn 2022
Lecturer:	Paul Vesey BEng, MIE, HDip
Filename:	RMEP01-TUS-XX-XX-SP-E-0001-A1-P04

Assignment 1 – Electrical Systems

Issue Date:	4 th October 2022
Submission Date:	23 rd October 2022

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	No
2	Create and analyse Pipe Layouts in Revit MEP	No
3	Create and Analyse Electrical Layouts in Revit MEP	Yes
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 electrical template. You will then have to link to the Architectural model for reference. You are required to model the lighting system and power outlet system as shown in the attached drawing. This will involve placing lights and switches as indicated. Lights and switches are to be allocated to a circuit on the main distribution panel as indicated on the drawing. The details of the light switching arrangements is also shown. Power outlets are to be placed in the model and allocated to circuits as indicated. Upon completion of the circuits, you are required to create a panel schedule and re-balance the three-phase load. You are also required to create an A1 drawing sheet using the LIT title block provided. This sheet should be populated with the views and schedules as shown.

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 a pdf of your drawing to Microsoft Teams on or before the submission deadline.

Upload Checklist

Item	Format	Filename
Revit File	Revit Project File	RMEP01-***-XX-ZZ-M3-E-0001-A1-P01.rvt
A1 Drawing	Adobe pdf	RMEP01-***-XX-ZZ-DR-E-0001-A1-P01.pdf