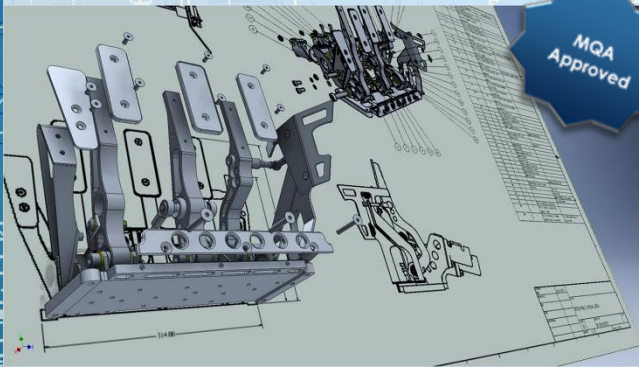


UNIVERSITY OF MAURITIUS

Autodesk Fusion: For Seamless 3D Computer-Aided Design Modelling and Generative Design



1. INTRODUCTION

This is a beginner's course in Computer Aided Design (CAD). The aim of this course is to provide students, engineers and hobbyists with an introduction to the Computer Aided Design (CAD) software of Autodesk Fusion (formerly Fusion 360). This CAD software is a powerful cloud-based system enabling seamless 3D modelling. It is also incorporated with advanced features for Computer Aided Manufacturing (CAM) such as additive manufacturing.

2. OBJECTIVES

At the end of the course, participants are expected to be able to:

- To become familiar with Autodesk Fusion workspace

- To acquire fundamental CAD skills on Autodesk Fusion
- To create detailed sketches on Autodesk Fusion
- To generate quick prototype through various design techniques
- To explore advanced design features on Autodesk Fusion
- To explore CAM features inbuilt in Autodesk Fusion software
- To acquire the basic skills for generative design.

2. DURATION

The duration of the course is eighteen (18) hours, conducted on six consecutive Saturdays:

- 06 June 2026
- 13 June 2026
- 20 June 2026
- 27 June 2026
- 04 July 2026
- 11 July 2026

3. CURRICULUM

Session	Course Outline
1	<p>Introduction to Autodesk Fusion Workspace</p> <ul style="list-style-type: none"> General Introduction to Autodesk Fusion Autodesk Fusion Modelling Basics Autodesk Fusion Workspace Overview

	<ul style="list-style-type: none"> Introduction to Cloud-Platform
2	<p>Fundamental CAD skills on Autodesk Fusion - Part I</p> <ul style="list-style-type: none"> Sketching Create & Edit 2D Sketches Apply Dimensions & Constraints Create a 3D Sketch
3	<p>Fundamental CAD skills on Autodesk Fusion - Part II</p> <ul style="list-style-type: none"> Part Modelling Create 3D Models from 2D Sketches Manipulate Geometry with Direct Modeling Tools Apply Fillets and Chamfers
4	<p>Fundamental CAD skills on Autodesk Fusion - Part III</p> <ul style="list-style-type: none"> Assembly Modelling & Freeform Modelling Creating an Assembly on Autodesk Fusion Create a Freeform Body Advanced Modelling Features
5	<p>Computer Aided Manufacturing (CAM) in Autodesk Fusion</p> <ul style="list-style-type: none"> Design a Model for CAM Refine and Validate the Design Prepare the Model for CAM CAM Parameters
6	<p>Generative Design via Autodesk Fusion</p> <ul style="list-style-type: none"> Introduction to Generative Design Define Design Space Set Design Conditions & Select Material Parameters Generate Outcomes

5. VENUE & FACILITIES

The short course will be held in CAD/CAM lab of the Faculty of Engineering, Sir Edouard Lim Fat Engineering Tower, University of Mauritius, Réduit.

6. TRAINING METHODOLOGY

Delivery of the course will be mainly in the form of lab-based practical sessions including brief lecture sessions.



7. CERTIFICATE

Participants who have successfully attended all sessions of this short course will be awarded a certificate of attendance issued by the University of Mauritius.

8. WHO SHOULD ATTEND

The short course is designed and customized principally for engineers, fresh graduates and University students.

Note: Limited Number of Seats

9. TRAINING/REGISTRATION FEES

Rs. 12,000 per participant

**Special
Discount -
University
Students**

10. RESOURCE PERSONS

Dr RAMFUL Raviduth, Senior Lecturer in the Mechanical & Production Engineering Department (University of Mauritius) will be the resource person for this short course.

11. STARTING DATE

Saturday 06 June 2026

Registration Deadline: 01 June 2026

12. MODE OF PAYMENT

Payment can be effected in Cash, Card, or Cheque. Cheque must be drawn to the order of the University of Mauritius.

Payment must be effected at UoM Cash Office, Finance Section by 01 June 2026.

Short Course APPLICATION FORM

Autodesk Fusion: For Seamless 3D Computer-Aided Design Modelling and Generative Design

(MQA Approved)

Name of Participant:

Postal Address:

Tel: Fax:

Mobile Tel:

Email:

Organization:

Position:

Signature of Participant:

Date:

Application forms, duly filled, should be sent to the following address by latest 01 June 2026. Forms can also be sent by fax:

**Dr RAMFUL Raviduth
Mechanical & Production Engineering Department
Faculty of Engineering
University of Mauritius, Réduit, 80837,
Republic of Mauritius**

Tel: +230 403 7400 (Ext 7887) | Fax: +230 465 7144

Email: r.ramful@uom.ac.mu

The University of Mauritius reserves the right not to run the course should the number of participants be insufficient.

**MQA
Approved**



**UNIVERSITY OF
MAURITIUS**

**COMPUTER
AIDED DESIGN
(CAD)**