



# DESIGN TO 3D PRINT (ESSENTIAL)

Learn the fundamentals of 3D design and bring your ideas to life with 3D printing. This hands-on course is perfect for beginners with no prior experience.



## LEARN 3D DESIGN BASICS

Easy-to-follow, beginner friendly



## CREATE YOUR OWN MODELS

Design using Tinker cad



## PREPARE FOR 3D PRINTING

Export and get your model ready



## HANDS-ON PROJECT

Build, Print, Take Home.



### DURATION

**3 DAYS**  
(FULL TIME)



### TIME

10:30 AM –  
5:30 PM



### SUITABLE FOR

STUDENTS,  
DESIGN ENTHUSIASTS  
& FUTURE CREATORS



FOR  
STUDENTS



FOR  
PROFESSIONALS



FOR  
TEAMS



TVET  
Smart Choice  
Bright Future



Shortcourse  
Programme

# TRAINING OUTLINE

A practical 2-day training programme to introduce students to 3D design and 3D printing using Tinkercad. Learn, design and bring your ideas to life!

## DAY 1

### INTRODUCTION & 3D DESIGN BASICS

- Introduction to 3D Printing
- Real-world applications
- Getting Started with Tinkercad
- Basic Shapes & Tools
- Move, Rotate, Scale & Align
- Group, Duplicate & Mirror
- Building Simple Models
- Mini Challenge: Design a Keychain

## DAY 3

### PREPARE, PRINT & PRESENT

- Check Model Integrity
- Understand STL Files
- Export for 3D Printing
- Presentation & Showcase
- Feedback & Wrap Up

## DAY 2

### CREATE YOUR OWN 3D PROJECT

- Design Planning & Sketching
- Using Multiple Shapes
- Add Details & Dimensions
- Check Design Accuracy
- Main Project: Choose ONE and Build Your Own!
  - ✓ Pencil Holder
  - ✓ Desk Organizer
  - ✓ Phone Stand
  - ✓ Mini Trophy
  - ✓ Custom Name Plate

#### WHY JOIN THIS COURSE?



##### Hands-On Learning

Build real projects and solve practical design challenges.



##### Industry-Relevant

Skills you can apply in engineering, design and manufacturing.



##### MTTC Certification

Earn a recognised certificate from MTTC College.

