

**GOVERNMENT OF TELANGANA
DEPARTMENT OF TECHNICAL EDUCATION**

**OFFICE OF THE
COMMISSIONER OF TECHNICAL EDUCATION
TELANGANA :: HYDERABAD**

Sub: Technical Education – T & P Section – “Fusion 360” – Online Faculty Development Program by TASK for the faculty of Government Polytechnics in Telangana – Request – Reg.

Ref: Mail received from Sheeba Rani. I, Sr. Executive Training Delivery, TASK, Begumpet, Hyderabad, Dated: 30.09.2020.

With reference to the above cited, the Principals of all Government Polytechnics under the control of this Department are informed that, TASK is conducting (05) days online Faculty Development Program “Fusion 360”. The proposed schedule of Training Programme is from 19.10.2020 to 23.10.2020. The faculty from Civil Engineering, Electrical and Electronics Engineering, Mechanical Engineering and Automobile Engineering branches are eligible to attend the FDP on Fusion 360.

In this connection, the Principals of all Government Polytechnics are hereby informed that, the faculty who are attending the course can fill their details through the following link: <https://forms.gle/g5xaaZfpJKbdA1eh8> (The details of the course and the pre-requisites is enclosed). A copy of online submitted nominations of “Fusion 360” can be sent to this office through this mail adtrg.ts@gmail.com.

The receipt of this memo shall be acknowledged.

(This has the approval of the CTE, Telangana)

Encl: As above

Signature valid

Digitally signed by SWAMY AVULA
Date: 2020.10.01 16:57:19 IST
Reason: Approved
For COMMISSIONER

To
The Principals of all Govt. Polytechnics under control
of the Department of Technical Education, Telangana.
Copy to the Secretary, SBTET, T.S., Hyderabad.

Course Title: - FUSION 360

Duration: - 3 Days for an in class Training.

5 Days 3Hours for a Virtual Training

Pre-requisites: - Should be familiar with AutoCAD Basics

Requirements: -

- Laptop/Desktop (Microsoft Windows 10) with latest version of FUSION 360 installed
- Recommended to use 64bit operating system with 8GB RAM (Minimum 4GB is highly recommended)
- Apple® macOS™ Catalina 10.15; Mojave v10.14; High Sierra v10.13
- Dedicated GPU with 4 GB or more VRAM, DirectX 12 supported

Course content: -

- **Getting Started**

- Introducing Autodesk Fusion 360
- Introducing 3D Modeling
- Installing Fusion 360
- Starting Autodesk Fusion 360
- Accessing the Help and Communication Center
- Learning the Fusion 360 Interface
- Understanding Workspaces
- Introducing the Browser
- Using the Ribbon
- Locating Commands in the User Interface
- Navigating with the View-Cube

- Navigating the Model
- Adjusting the Visual Styles
- Adjusting the Environment and Effects
- Understanding Projects
- Uploading Files to Fusion
- Using A360 to Copy and Move Files
- Setting Your Preferences
- Setting Active Units
- Using Keyboard Shortcuts
- **SKETCHING**
 - Sketch Creation
 - Create Dimensions
 - Constraint Selection and creation
 - Edit a Sketch
 - Project Edges
 - Edit a Sketch
- **DRAWING**
 - Creating a Drawing View, Base, Projected, Section, Detail
 - Add Annotations
 - Edit a created view
 - Edit Border and title block
- **SCULPT**
 - Create a Form

- Edit a Form
- Thicken a Form
- **DIRECT MODELLING**
 - Feature Deletion
 - Press and Pull Tool
- **ASSEMBLY MODELLING**
 - Create and Manage Top Level Assembly and Subassemblies
 - Create a Component from a body
 - Align and Assembly of Joints
 - Interference
 - Rigid Groups
 - Motion Studies
- **ADVANCED MODELLING**
 - Sweep and Loft
 - Boundary Fill
 - Split and Combine bodies
- **PART MODELING**
 - Create extrude features
 - Apply Fillets and Chamfers
 - Create complex hole features
 - Create revolve features
 - Create a pattern of features
 - Create a shell feature
 - Create Construction Planes and Axes
 - Inspect command; measure, and section analysis