



## **Five Days FDP on “Fusion 360- Advanced Simulation and Analysis**

**Organised by**

**Academic Staff College, KLEF**

---

**15/06/2021 To 19/06/2021**

The Academic Staff College (ASC) of Koneru Lakshmaiah Education Foundation, KLEF organized a five-day faculty development program on "Fusion 360- Advanced Simulation and Analysis" to the mechanical department faculty from 15-06-2021 to 19-06-2021.

Through the use of Fusion 360's modeling, assembly, motion study, simulation, and manufacturing features, faculty members will have the opportunity to enhance their teaching abilities while also showcasing a variety of new trends and technologies in the field of design. Additionally, the program aimed to increase participants' knowledge of how to simulate using cutting-edge software in the appropriate field in order to instill learning values in students and to guide and monitor their development. By exploring techniques tailored to simulate real-world scenarios, participants gain invaluable insights into optimizing designs and assessing performance metrics with precision.

### **Course content:**

Introduction - Workspaces and Navigation, Get started with sketches and part modelling, Simple Assembly of parts, Advanced Multi Body Solid Modelling and Assembly - with motion study, Getting started with Static stress simulation, Diving deep into structural Simulation and Electronics Cooling CFD, Diving deep into Generative Design and Intro to 3 Axis CAM.

### **Resource Person(s):**

External Resource person: USAM CADSoft India Pvt Ltd.

Internal Resource persons: Dr. Sreekar Reddy, Mr. Ranganath

Duration: 15/6/2021 to 19/06/2021

Timings: 15th June 2021 : 2:00 PM to 3:30 PM

16th June 2021 : 2:00 PM to 3:30 PM

17th June 2021 : 2.30 PM to 5.30 PM

18th June 2021 : 2.30 PM to 5.30 PM

19th June 2021 : 9.30 PM to 12.30 PM

**The major highlights of the FDP include:**

- Basic introduction to the Autodesk program.
- Demonstrate the design abilities by resolving industry-posted design problems.
- Instructions for setting up an Autodesk student account, enabling the student to download any Autodesk program.
- The mentor's instructions are followed when performing verification using Autodesk software.
- Fusion 360's fundamental features were demonstrated along with an explanation of their functions.
- Establish a connection between academia and industry to give students the chance to receive mentorship from professionals in the field.
- The objective is to facilitate independent decision-making procedures, real-time asset and process monitoring, and equally real-time connected value creation networks through early stakeholder involvement and vertical and horizontal integration.
- Exposure to the use of cutting-edge technologies and design software to expedite and simplify design.

Dr A Srinath

Principal – Academic Staff College



