





Simulations in Engineering Workshop

Let's Dive into Simulations!



Simulation is the process of using computer-based modeling of a system to understand its behavior and predict the effect of changes. Simulation represents a powerful method for analyzing, designing, and operating complex systems.

What you will Need?

- A laptop/PC
- Minimum requirements intel 13 processor or above, ryzen 3 or above, minimum 2GB graphic card, 8GB RAM
- Good Internet connection
- ANSYS student version installed on your device (preferably 2022 R2)
 (Link for download given below)

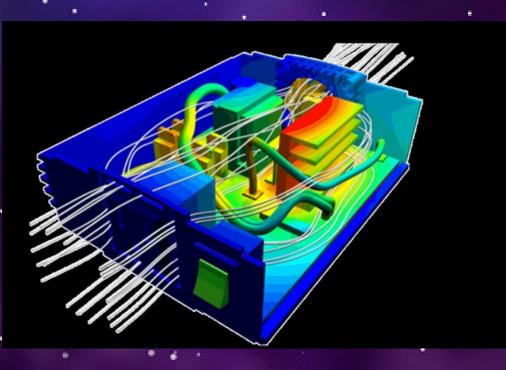
Pre-requisites:

- → None
- -> Everything will be taught from scratch.

Link for download:

https://www.ansys.com/en-in/academic/students/ansys-student

What you'll learn



Workshop

Day 1 (uncovering the black box)

- Understanding mathematical modelling.
- Numerical method-Finite Element Method(FEM)
 Day 2 (solution using ANSYS)
- Solving a 1D heat conduction problem from preanalysis to verification of the result.

Webinar

- Introduction on simulation
- Why is it a must have technical skill
- How to begin your simulation journey
- Overview of a solved example in ANSYS.

Estimated time for workshop - 3 Hrs.(1.5 each day)

SOFTWARE USED: ANSYS

Why you should attend this workshop?

- No prior knowledge of simulations is assumed.
- Recommended for absolute beginners.
- It is a highly lucrative technical skill.
- Will give a kick start to your simulations journey.
- Junior years of UG is the most appropriate time to start learning such skill.

Very beneficial for 1 st,2nd and 3rd year UG students

REGISTRATION FEE

WEBINAR - Rs.50
WEBINAR+WORKSHOP - Rs.250 200*

DATE

WEBINAR - 12 October, 6:00PM - 7:30 PM WORKSHOP DAY 1 - 15 October, 6:00PM - 7:30 PM WORKSHOP DAY 2 - 16 October, 6:00PM - 7:30 PM

NOTE: The webinar will provide only a brief overview of simulation but to get a proper hands-on experience and learning, it is recommended to attend the workshop as well.

*Early Bird offer valid till Oct 7