

What is 3D?

3D means *three-dimensional*, i.e. something that has *width*, *height* and *depth (length)*. Our physical environment is three-dimensional and we move around in 3D every day.

Humans are able to perceive the spatial relationship between objects just by looking at them because we have *3D perception*, also known as *depth perception*. As we look around, the retina in each eye forms a two-dimensional image of our surroundings and our brain processes these two images into a 3D visual experience.

In computers, 3-D (three dimensions or three-dimensional) describes an image that provides the perception of depth. When 3-D images are made interactive so that users feel involved with the scene, the experience is called virtual reality

Dassault Systèmes has launched the **3DEXPERIENCE** Lab to support those innovators who also wish to change the world, or simply just make it a better place to live. We embrace the social enterprise and draw upon our long history of engineering in the virtual world to empower those with new perspectives on innovation.

The **3DEXPERIENCE** Lab brings a new framework of openness, merging collective intelligence with a cross-collaborative approach to foster entrepreneurship and bring new experiences to life, as well as to strengthen society's future of creation.

APSSDC had taken initiation to implement the Dassault project. In this project we are going to train the students on 3 softwares both in theoretical and practical aspects.

BENEFITS:

3DEXPERIENCE platform has quickly brought to designers using SOLIDWORKS to expand their business.

The **3DEXPERIENCE WORKS** family now includes DELMIAWORKS to serve mainstream manufacturers by providing a full digital thread for business operations.

The **3DEXPERIENCE** platform is poised to become the benchmark for business operations in this category of firms through well integrated offerings spanning manufacturing and management that are simple, affordable and easy to implement

Dassault Systèmes Vice Chairman and CEO : Bernard Charlès.

Dassault Systèmes first launch of its first 3D experience lab in India at its R&D facility in Pune. The Lab will support the startup ecosystem for new product innovations and offer entrepreneurs, makers and startups unique resources to work on disruptive innovations, leverage collective intelligence and nurture projects that have the potential to transform society.

APSSDC TRAINING PROGRAMS

1.DASSAULT SYSTEMS

2.FIP (FACULTY IMPROVEMENT PROGRAM): UNIQUE SKILL IMPROVEMENT PROGRAM FOR THEIR BETTER CARRER

3.EOI (EXPRESSION OF INTEREST): UNIQUE SKILL IMPROVEMENT PROGRAM FOR THEIR BETTER CARRER

4.WORKSHOP

Aart from these programs, Our SPMVV had been taken initiation to run DASSAULT SYSTEMS , for the sake of students benefits.

APSSDC-Dassault project includes,3 softwares to train the students on both in theoretical and practical aspects.

- 1.CATIA - CAD software
- 2.SIMULIA - CAE software
- 3.DELMIA - CAM software

All the above softwares are in combined and collaborated inside the 3D Experience platform.

VISION :The vision of this project is to provide the elaborated contents and knowledge regarding the above softwares to the students so that they can understand the concepts easily. This project will be a gate opening opportunity to the students to get into the industries who requires expertise from above softwares

MISSION :The mission of the project is to make sure that the students got the required knowledge in both theoretical and practical manner. And they get certified in the knowledge that they gained.