

ANIMATION AND GAME DESIGN LAB



The Animation and Game Design Lab is a high-tech facility that provides B.Tech students with a hands-on platform to experiment with digital animation, 3D modeling, and game design. The lab is designed to provide exposure to industry level equipment and software to promote creativity, technical skill, and innovation.

The laboratory is equipped with powerful computers, drawing monitor with level pen, virtual reality headsets, and Powerful graphics processing units capable of sustaining intensive tasks in animation and game rendering. Students make use of software packages like Autodesk Maya, Blender, Unity, etc. to design characters, animate movement, develop realistic environments, and build fully playable games.

Here, the students learn the entire game development pipeline, including concept art and storyboarding, programming of gameplay mechanics, level design, and final testing. They also learn fundamental animation principles, character rigging, lighting, visual effects (VFX), and integrating sound.

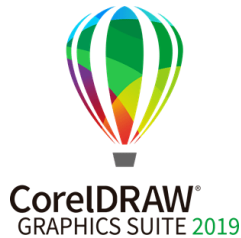
This area is also used for group projects where students work collaboratively as though an actual game development studio. From creating a 2D mobile game to a 3D interactive virtual reality experience, students get hands-on experience with both the artistic and technical aspect of animation and interactive media.

Essentially, the Animation and Game Design Lab is a technology and storytelling convergence hub, thus preparing students for careers in the entertainment, simulation, education technology, and game sectors.

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CorelDRAW Graphics Suite 2019

The CorelDRAW Graphics Suite 2019 is among the most popular graphics designing application with a variety of powerful tools that can create professional-grade graphics. It is a very lightweight application with self-explaining options and simple to use tools to minimize the design complexity.



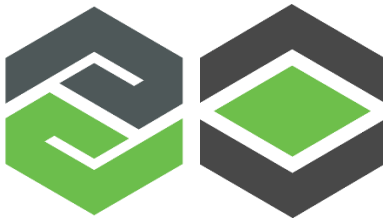
Adobe Creative Cloud



Adobe Creative Cloud for students. One thing you need to understand is that all of Adobe's applications are stored in the Creative Cloud. This means users can access the software from any part of the world. Adobe Creative Cloud Express is built on templates and libraries and is great for beginners. Its interface is minimalistic and you can use the drag and drop technology to move the

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design elements you need across the entire working canvas. You can store as many files as you wish and share them with anyone you want. Adobe Creative Cloud is always up to date. Different features and tools keep being added to give you a range of options for your work.



vuforia™

Vuforia Engine is the most widely used platform for AR development, with support for the majority of phones, tablets, and eyewear. Developers can easily add advanced computer vision functionality to Android, iOS, and UWP apps, to create AR experiences that realistically interact with objects and the environment. Augmented reality is the mixture of virtual reality with real life, using layers of computer generation to enable us an enhanced interaction with reality.



The SpaceMouse is a peripheral tool for **controlling three-dimensional objects** created by computer programmers. This tool represents part of the vanguard of a class of three-dimensional mouse products that allow users to use more natural movements in manipulating three-dimensional objects on a screen.

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Oculus Quest 2 is an all-in-one VR headset, allowing you to enter the metaverse and everything it has to offer. It's easy to set up, simple to use, and features super-smooth performance. Built into the strap mounts that sit either side of your head, the speakers on the Quest 2 prove remarkably useful.



Emotiv EPOC is a **high resolution, multi-channel, wireless neuroheadset**. The EPOC uses a set of 14 sensors plus 2 references to tune into electric signals produced by the brain to detect the user's thoughts, feelings and expressions in real time. The EPOC connects wirelessly to PCs running Windows, Linux, or MAC OS X.

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The FS Pro II features two matched DPA 4060 CORE hi-sensitivity capsules mounted inside each ear canal delivering a very sensitive and natural binaural sound. The flat frequency response and dynamic range of the capsules results in a very open and dynamic binaural realism, especially during very delicate recordings. With a wide dynamic range, the FS Pro II ideally is suited for professional recording studios, content creators, filmmakers, field recordists, and sound designers that are looking for an immersive binaural soundscape.