

Lab simulation solutions Guide for Faculty

The following list of solution are available at UOS and being in used by Colleagues:

Software name	Description	colleges	Number of License	Guide
PVsyst	It deals with grid-connected, stand-alone, pumping and DC-grid (public transportation) PV systems , as well as general solar energy tools . This software is geared to the needs of architects, engineers, researchers. It is also very helpful for educational training.	Eng/SREE	35	YouTube channel Features Tutorials User Manual
VP Labs	The Virtual Physical Laboratory is a suite of 370 interactive physics simulations. The resource is versatile and flexible, evidenced by the fact that it is being used in over 15 countries across 5 continents. It is being implemented in top class international institutes as well as in poorly resourced schools in third world countries.	Science/Physics	1	Website
Virts Lab	Virtual laboratories meet modern educational standards and are an effective complement to the real laboratory base of educational institutions	Science/Physics	Unlimited personal PC	Website
Labster	is an immersive 3D interactive learning environment. Over 1000 schools, colleges, and universities around the world are using Labster as a pre-lab, supplemental learning resource, or as a replacement for a face to face lab during the pandemic.	All	5000	Website YouTube channel Faculty guide
Complete Anatomy	revolutionary cloud-based education platform allows users to investigate the minute detail of the human anatomy in incredible 3D. We are transforming medical learning and practice across the world, leading the way in the production of ground-breaking 3D medical technology.	Medicine	520	Website Faculty guide YouTube
Gamsalad	GameSalad Creator is an authoring tool developed by GameSalad used by educators and non-programmers alike. It consists of a visual editor and a behavior-based logic system.	Computing & Informatics	30	Website Educational guides YouTube
LabView 2020	laboratory Virtual Instrument Engineering Workbench is a system-design platform and development	Science /Eng	50 faculty\ 250 std	Website YouTube

	environment for a visual programming language from National Instruments. The graphical language is named "G"; not to be confused with G-code.			Faculty guide
The Finkleman Preparation Muscle Physiology Nerve Physiology	A computer simulation of the Finkleman preparation to teach undergraduate pharmacology students.	Pharma	All users	Website
Mathematica	is a symbolic mathematical computation program, sometimes called a computer algebra program, used in many scientific, engineering, mathematical, and computing fields.	Eng/MNE	18	Website
Trnsys 18	is an extremely flexible graphically based software environment used to simulate the behavior of transient systems.	Eng /SREE	100	Website Youtube
EES	is a general equation-solving program that can numerically solve thousands of coupled non-linear algebraic and differential equations.	Eng/SREE	20	Website Manual guide
V-Ray	V-Ray® for SketchUp is a 3D rendering software that combines real-time and photoreal rendering — all in SketchUp . From beginner to pro, Chaos® V-Ray has all the tools you need to visualize your SketchUp projects from start to finish.	Fine Arts ENG/AED	232	Website Youtube

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