

# Spreading... Free/Libre and Open Source Software



## About FOSSEE

FOSSEE (Free/Libre and Open Source Software for Education) project is funded by the National Mission on Education through ICT, MHRD, Government of India. The FOSSEE team works on 'Adaptation and development of Open Source simulation packages equivalent to proprietary software', and is based at Indian Institute of Technology, Bombay. FOSSEE is promoting open source software across India through various projects and activities for students, faculty and other FLOSS evangelists.

## Projects



Python

Python is a general-purpose, high-level, remarkably powerful dynamic programming language that is used in a wide variety of application domains. It supports multiple programming paradigms.

*Scilab* Scilab

Scilab is software for numerical computation developed by Scilab Enterprises, France. Scilab also includes Xcos which is an open source alternative to Simulink.



DWSIM

DWSIM is an open source CAPE-OPEN compliant chemical process simulator. It helps to understand the behavior of Chemical Systems by using rigorous thermodynamic and unit operations models.

OpenModelica

OpenModelica based on the Modelica modelling language for modelling, simulation, optimising and analysing complex dynamic systems.

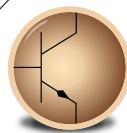


Osdag

Osdag allows the user to design steel structures using a graphical user interface. The GUI also provides 3D visualization of the designed component and images.



R is a language and environment for statistical computing and graphics. It provides a wide variety of statistical, graphical techniques, and is highly extensible



eSim

eSim (formerly known as OScad/FreeEDA) is an EDA tool for circuit design, simulation, analysis and PCB design. It is developed by the FOSSEE team at IIT Bombay as an open source alternative to OrCAD.



Scilab-Arduino

An interface devoted to the control of Arduino from Scilab. The interface helps to perform embedded systems, experiments on Arduino board using Scilab code & also through GUI based simulation environment, Xcos.

Open  
PLC

A Programmable Logic Controller (PLC) using LDMicro and 4diac along with open-source hardware for automation of various electro-mechanical processes in industries.



CFD

OpenFOAM is a CFD toolbox useful to solve anything from complex fluid flows involving chemical reactions, turbulence and heat transfer, to solid dynamics and electromagnetics.