



# Andhra Pradesh State Skill Development Corporation



## SciLab

### Benefits of using SciLab

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**Andhra Pradesh State Skill Development Corporation (APSSDC)**



**Sci lab**

# Introduction of SciLab





# Why scilab?

- Free & open-source, user-friendly numerical and computational package
- Used various streams of science & engineering
- Available for various operating systems(OS) viz Windows, Linux & Mac OS

Scilab is pronounced with ‘SCI’ as in Scientific & ‘LAB’ as in the laboratory.



# Why scilab?

Because Scilab is free & open-source software(FOSS)

User can:

- See & modify the source code
- Redistribute and improve the source code
- Use the software for any purpose

This is an obvious advantage for private industries, entrepreneurs, defence establishments, research organizations, academic institutions, and individual user



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As an Government organisation, PIRACY of commercial packages is avoided fully by adopting FOSS tools

- Skills learned using Scilab at the academic level are later useful in the industry as usage is free of cost



# Why scilab?

Scilab together with various toolboxes, which are also free, can perform operations like:

- Matrix operations
- Control systems
- Image and video processing(SIVP)
- Real-time control of hardware (Serial toolbox)
- simulation(Xcos-block diagram simulator)
- Plotting



# Why scilab?

The benefits of using Scilab

- The syntax is very easy
- Many numerical problems can be expressed in a reduced number of code lines, compared to similar solutions using traditional languages

Some organizations that are using Scilab **very successfully** are

- CNES(French Space Satellite Agency)
- EQUALIS
- Techpassiontech
- IIT Bombay(Research/Academic Purposes)