



Dr. N.G.P. INSTITUTE OF TECHNOLOGY

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CIRCULAR

The FOSSEE Team at IIT Bombay is conducting a **Scilab Toolbox Hackathon** by writing interfaces between established **open source software and Scilab**.

The objectives are: **1.** To enhance Scilab's capabilities through crowd sourcing **2.** To give a platform to students/teachers/professionals who are good in this field to demonstrate their capabilities **3.** To make Scilab more.

Team size and Composition

Participate as an individual or as a team (max. 4 members). Ideally, a team should have two types of people: (1) people with coding expertise (2) people with domain expertise. It is possible that a team member may have both expertises, however.

Problem Statement

There are thousands of open source software available for numerical computation, to solve nonlinear equations, to integrate differential equations through finite difference and finite elements, for data visualisation, for statistical calculation, etc. There are also open source solutions to establish debuggers/ profilers. The objective of this Hackathon is to bring such software as toolboxes to Scilab users. This will enhance the functionality of Scilab. Once such software is available as a Scilab Toolbox, anyone who knows Scilab should be able to access it easily. An example of building such a toolbox is given for C/C++ . A similar example for Python is available here: (1) [Python Toolbox Creation](#) (2) [Python Toolbox Installation and Use](#) and (3) [Scilab-Python-Toolbox](#).

HoDs are informed to motivate the students to register on or before **31.05.2020**, for further details, visit <https://scilab.in/hackathon/>.

Principal

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