**Gokaraju Rangaraju Institute of Engineering and Technology**

**(Autonomous)**

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Free software is software that gives the user freedom to run, study modify and share/redistribute copies of Software. To use free software is to make a political and ethical choice asserting the right to learn, and share what we learn with others. With **Free and Open-Source Software** (**FOSS**) anyone is [freely licensed](https://en.wikipedia.org/wiki/Free_software_license) to use, copy, study, and change the software in any way, and the [source code](https://en.wikipedia.org/wiki/Source_code) is openly shared so that people are encouraged to voluntarily improve the design of the software. This is in contrast to [proprietary software](https://en.wikipedia.org/wiki/Proprietary_software), where the software is under restrictive [copyright](https://en.wikipedia.org/wiki/Copyright) [licensing](https://en.wikipedia.org/wiki/Licensing) and the source code is usually hidden from the users.

GRIET Free Software Wing, supports the philosophy of FOSS, and encourages students and faculty to use open source software wherever applicable. It aims to train the students on open source Software, widely used in industry. Encourage Faculty the usage of FOSS material and software in Teaching/Learning process.

**GRIET FSW Ambit**

1. Organize Guest Lectures, Seminars, Workshops, Hands-on Sessions to students/faculty.
2. The events can be customized to each branch of Engineering.
3. Certifications through Spoken Tutorials.
4. Organize Sessions with Hands-on in collaboration with IIT Bombay, Spoken Tutorials, Industries that inclines to the philosophy of FOSS.
5. Organize Events on Emerging Technologies.
6. Provide internships to students good at FOSS.

**GRIET FSW Plan:**

* Promote Programming Skills using Python, Java, C/C++ for all branches of Engineering
* Technology : Machine Learning, Data Science using Python / R, Internet of Things etc.
* Hands on :

1. Python and R workshops for all Engineering Branches
2. Scientfic Applications **using Scilab**
3. Circuit Design, Simulation, Analysis and PCB design **using esim**
4. Design of Steel Structures using **Osdag**
5. Design of embedded systems experiments on Aurdino board using **Scilab & Xcos**
6. **Open PLC** is an industrial digital computer used for automation of various electro-mechanical processes in industries.

Through this platform there is a wide scope of Learning and contribution to the free and open source community. Planned activities can lead to improvement in Teaching/Learning process. Active participation by students enable internships, design and develop innovative projects. Active participation by faculty can result in new spoken tutorial sessions or workshops design. Keeping in view the scope of FSW I request the HoDs of each department to kindly depute one faculty coordinator for FSW activities.

**I take the opportunity to invite the newly deputed coordinators, interested faculty to attend an orientation session on 17th August 2019 in room 3432.**

Thanking you

Dr. Y. Sri Lalitha

FSW Coordinator.