

KRISHNASAMY

College of

ENGINEERING & TECHNOLOGY

Approved by AICTE & Affiliated to Anna University

Anand Nagar, Nellikuppam Main Road, S. Kumarapuram, Cuddalore - 607 109, Tamil Nadu.

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DEPARTMENT OF CSE

18.07.2022

CIRCULAR

Ref.: KCET/CSE/VAC/CIRCULAR/2022-23/01.

The following Value Added Course will be conducted during the academic year 2022-2023. The course will be conducted from 02.08.2022 to 06.08.2022. Students are instructed to register their names in the course allotted to them.

Note: Students are instructed to attend the program without fail.

S.No.	Course Code	Name of the Course	Year	No. of Period	Course Coordinator
1	CS-VAC2201	FREE & OPEN SOURCE SOFTWARE	III & IV	30	Ms.C.Reikha ,AsP - CSE
2	CS-VAC2202	COMPUTER GRAPHICS	II	30	Mrs.P.M.Kamatchi, AP - CSE

C. Reikha
11/7/22
HOD/CSE

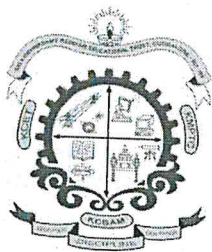
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SYLLABUS

Subject Code/ Subject Name: CS-VAC2201 - FREE AND OPEN SOURCE SOFTWARE

Duration: 30 Hours

OBJECTIVES:

The student should be made to:

- Be exposed to the context and operation of free and open source software (FOSS) comm. Modules and associated software projects.
- Be familiar with participating in a FOSS project
- Learn scripting language like Python or Perl
- Learn programming language like Ruby
- Learn some important FOSS tools and techniques

MODULE I PHILOSOPHY

8

Notion of CommModuley--Guidelines for effectively working with FOSS commModuley, Benefits of CommModuley based Software Development Requirements for being open, free software, open source software –Four degrees of freedom - FOSS Licensing Models - FOSS Licenses – GPL- AGPL-LGPL - FDL - Implications – FOSS examples.

MODULE II LINUX

8

Linux Installation and Hardware Configuration – Boot Process-The Linux Loader (LILO) - The Grand Unified Bootloader (GRUB) - Dual-Booting Linux and other Operating System - Boot-Time Kernel Options- X Windows System Configuration-System Administration – Backup and Restore Procedures- Strategies for keeping a Secure Server.

MODULE III PROGRAMMING LANGUAGES

7

Programming using languages like Python or Perl or Ruby

MODULE IV PROGRAMMING TOOLS AND TECHNIQUES

7

Usage of design Tools like Argo UML or equivalent, Version Control Systems like Git or equivalent, – Bug Tracking Systems- Package Management Systems

TOTAL: 30 PERIODS

COURSE OUTCOMES:

Upon completion of the course, the student should be able to:

- ✓ Install and run open-source operating systems.
- ✓ Gather information about Free and Open Source Software projects from software releases and from sites on the internet.
- ✓ Build and modify one or more Free and Open Source Software packages.
- ✓ Use a version control system.
- ✓ Contribute software to and interact with Free and Open Source Software development projects.

TEXT BOOK:

1. Ellen Siever, Stephen Figgins, Robert Love, Arnold Robbins, "Linux in a Nutshell", Sixth Edition, OReilly Media, 2009.

REFERENCES:

1. Philosophy of GNU URL: <http://www.gnu.org/philosophy/>.
2. Linux Administration URL: <http://www.tldp.org/LDP/lame/LAME/linux-admin-made-easy/>.
3. The Python Tutorial available at <http://docs.python.org/2/tutorial/>.
4. Perl Programming book at <http://www.perl.org/books/beginning-perl/>.
5. Ruby programming book at <http://ruby-doc.com/docs/ProgrammingRuby/>.
6. Version control system URL: <http://git-scm.com/>.
7. Samba: URL: <http://www.samba.org/>.
8. Libre office: <http://www.libreoffice.org/>.

C. P. Singh
18/7/22
HoD

