Free and Open Source Software

Application at MNIT Jaipur
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What is FOSS?

- 3 Essential Freedoms

- Freedom to execute

- Freedom to modify

- Freedom to distribute

- Ultimately ends up being free in both senses of the word - मुफ्त and मुक्त

Why FOSS?

- As a student, the ability to read source code and understand it is paramount

- By working with proprietary software, you learn only to "use", not "develop"

- Gives you a chance to understand how things are implemented in the "real world" - significantly more helpful than a laboratory environment

Introducing ITR

- Volunteer group to develop, maintain and test FOSS based solutions to institute routines

- 3 key areas of responsibilities

  - System Administration

  - Software Development

  - Network Management

Software that we use...

- ...which also means things you have to learn

  - GNU/Linux

  - Shell Scripting

  - mySQL

  - PHP (MVC style web development)

Administrator Tools

- DeepOfix - Messaging Server

- Apache - World Standard for HTTP servers

- OpenLDAP - Directory Server

- Radius - Authentication

- MRTG, djbDNS, iptables, IPCop and host of others...

Current Projects

- Nigraha - Content Management System

  - Pluggable modules: Online Registration, Departmental Home Pages, Student Intranet...

- Network Management

  - WiFi for MNIT, Campus Wide Networking, Resource division, User Account Management...

- System Administration

  - Laboratories - Installation & Maintenance, Managing the hostel network...

Looking Forward

- More technical talks on topics of interest

- Deploying the IntraNet

- Effectively utilize the campus-wide network

- We're open to your ideas!

Thank You!