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| 13CS3203 | - | FREE & OPEN-SOURCE SOFTWARE (FOSS) |

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| Hours / Week | : | 4 |  | Sessional Marks | : | 40 |
| Credits | : | 4 |  | End Examination Marks | : | 60 |

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| **UNIT – I** |
| **The Source of Open Source:** What is Open source, who creates open source, who uses Open source, Where do I get open source software, when and how I use open source, Open Source History, Open Source Licenses. |
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| **UNIT – II** |
| **Introduction to Linux OS:** OS basics, Linux GUI: Exploring folders, Installation of binary packages, Built in Package Mangers Introduction to Linux file system, man pages, The first command cat, Command History, Basic Unix Commands: vi editor, Redirection operators, some Unix commands. |
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| **UNIT – III** |
| **File Filters:** Basic understanding about uniq, grep, cut, paste, join, tr, df, du, who, w, rm, unlink, ulimit, chmod, umask, chown, chgrp, id, diff, sed, cmp, comm, Introduction to pipes, Backup Commands: tar, cpio, zip and unzip commands, mount and umount |
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| **UNIT – IV** |
| **Real Time FOSS Applications:** Ubuntu Operating System, LAMP, Mozilla Firefox, Virtual Box, Gimp, Moodle, Wordpress, Network Simulator, Open stack, Android, Libre Office, NewGenLib, Maxima, Media Wiki, qBittorrent, LaTeX. |
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| **UNIT - V** |
| **Open Source Software Development:** Starting from what you have, Choose a license and apply it, Setting the tone, **Technical infrastructure:** What a project needs, Mailing lists, Version Control, Bug Tracker, RSS Feeds, Wikis, Websites. |
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| TEXT BOOKS |
| 1. Bernard Golden, "Succeeding with Open Source", Addison-Wesley Professional
2. N. B. Venkateshwarlu, “Introduction to Linux: Installation and Programming”, B S Publishers, 2005. (An NRCFOSS Publication)
3. Karl Fogel, Producing Open Source Software http://producingoss.com, 2010.
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| WEB REFERENCES  |
| 1. <http://opensource.org/history>
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