

FOSS Elective at Rajasthan Technical University

**** being introduced in 4th Semester for B.Tech. CS / IT from 2008-09 even semester**

Name of Subject : OPEN SOURCE TECHNOLOGY (4 IT 6.1) / (4 CS 6.3)	
Unit	Contents
I	OST overview: Evolution & development of OST and contemporary technologies, Factors leading to its growth. Open Source Initiative (OSI), Free Software Foundation and the GNU Project, principle and methodologies. Contexts of OST (India & international). Applications of open source (open source teaching and open source media) Risk Factors. Myths regarding open source.
II	Philosophy of Software Freedom, Free Software, OSS, Closed software, Public Domain Software, Shared software, Shared source. Detail of few OSS like Open Audio, Video, 2d & 3d graphics software, system tools, office tools, Networking & internet, Security, Educational tools and Games.
III	Open Source Development Model, Starting and Maintaining an Open Source Project, Open Source Hardware, Open Source Design, Ongoing OS Projects (i.e. examples of few good upcoming software projects.) Case Study: - Linux, Wikipedia.
IV	Licenses and Patents: What Is A License, How to create your own Licenses? Important FOSS Licenses (Apache, BSD, GPL, LGPL), copyrights and copyleft, Patents
V	Social and Financial impacts of open source technology, Economics of FOSS: Zero Marginal Cost, Income-generation opportunities, Problems with traditional commercial software, Internationalization, Open Source as a Business Strategy.