Spoken-tutorial Project, IIT Bombay

E-Brochure

Name of FOSS	Applications	Commercial equivalent	Employability	Department
Linux - Ubuntu	Virus free, robust, Operating System	Windows	Technician or System administrator for Computer Vendors (SME's), Indian Railways, Municipal Corporations, Air India and many SME's	Computer Science, IT, ECE, Electronics
LibreOffice -	Basic computer usage Office suite for documents, spreadsheets, presentations, database etc.	MS-Office	Administration, Data entry personnel, Travel Agency Assistant, Indian Railways, Municipal corporations, Govt. offices	All the departments including Schools
Writer	Word Processing, Documentation	Word		
Calc	Spreadsheets	Excel		
Impress	Presentations	Powerpoint		
Base	Managing Databases	Access		
Draw	Drawing	Windows-based Visio		
Math	Mathematical Operations	Math Type		
PHPMySQL	Web development and Database Management	.NET	Website Developer in all types of small and large enterprises, popular companies hiring PHP & MySQL trained persons are Air-India, Bridge & Roof Co., Media channels, agencies etc.	Computer science and IT
C/C++, Java, Netbeans and Python	Programming language		Programmer in SMEs working in C, Java, Netbeans and Python, Lab- Assistant in colleges, Popular companies requiring programmers on C /C++, Java and Python are HCL technologies, Wipro, L&T, TCS	Computer Science and IT

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Scilab	Scientific computation package for numerical computations	Matlab	Value addition in technical problem solving via use computational methods for engineering problems, Applicable in Chemical, ECE, Electrical, Electronics, Civil, Mechanical, Mathematics, etc.	Computer science, IT, ECE, Electronics, Mechanical
LaTeX	Document markup language and preparation system for Tex typesetting	MS-Word	Value addition to academic Skills set. Essential for International paper presentation and scientific journals.	All the departments
OpenFOAM	For Fluid Mechanics to solve and create fluid movies	Fluent	Companies like AUDI,Tata Steel, Volkswagen, etc. have started using it. Also Indian Govt. agencies like BARC (Babha Atomic Research Center) are making use of this free software	Mechanical
Oscad - now eSIM	EDA tool for circuit design, simulation, analysis and PCB design. It is an integrated tool built using open source software such as KiCad, Ngspice and Scilab.	Orcad	PCB designer in SME's and academic institutions, Lab assistant for Electronic Circuit Lab, Electronic network designer.	ECE, Electronics, EEE, Electrical
Firefox	Web browser	Internet Explorer	System Administrator and Lab assistant in SME's and academic institutes.	All the departments
GIMP	Image Editing and Graphic Design	Photoshop	Self employed photo editor, editor in photostudios, graphic design job in gift stores, advertising agencies, etc.	Arts and Textile designing, Fashion designing, Architecture
Q-CAD	Basic 2D design and drafting	AutoCAD		
Blender	Animation and Computer Graphics	Maya 3D	Animator in graphic and animation media, film etc. Sectors, such as advertising computer games, TV, education, interior-decoration, etc.	Arts, Design

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Ruby	Programming language		Ruby was used to implemented the reactive control part for the Siemens service robot. Ruby Web Dialogs based app to manage and track oncall and on-site support for the IT help desk and IT operations teams.	Simulations, 3D Modeling, Business, Robotics, Networking, System Administration, etc.
Perl	High-level programming language		Perl has been called the system administrator's best friend for its ability to make common tasks easy. Perl's process, file, and text manipulation facilities make it particularly well-suited for tasks involving quick prototyping, system utilities, software tools, system management tasks, database access, graphical programming, networking, and web programming.	Web developers, system administrators. Mathematicians, geneticists, journalists, managers, etc.
Jmol Application	Jmol applet is used to explore the structure of molecules. Jmol applet is used to depict X-ray structures.		Jmol returns a 3D representation of a molecule that may be used as a teaching tool, or for research e.g. in chemistry and biochemistry. There is a standalone application and a development tool kit that can be integrated into other Java applications.	Chemistry, Biochemistry
Cell Designer	Software for Planning & Designing Wireless Communication Systems, Modeling tool		CellDesigner has fully implemented the Korowajczuk 3D model, capable of performing simultaneously outdoor and indoor multi-floor predictions.	BioScience and Biotechnology
GChemPaint	GChemPaint is an editor for 2D chemical structures with a multiple document interface.		GChemPaint is currently being developed as part of The Chemistry Development Kit, and a Standard Widget Tool kit-based GChemPaint application is being developed, as part of Bioclipse.	School level Chemistry
Inkscape	Graphic Designing	Adobe Illustrator, Coreldraw	Photo editing, Photo Manipulation and Graphic Design	All the departments including Schools

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Bash	Bash is a “Unix shell” commandline interface for interacting with the operating system. Bash has the ability to run an entire script of commands, known as a “Bash Shell script” or “Shell script”.		Familiarity with GNU/ Linux command lines, and familiarity with basic programming concepts is a prerequisite for learning BASH. System administrators will greatly benefit by learning to automate common tasks using BASH.	System administrators
Ascend	ASCEND is a free, open source, mathematical modelling system.		Its main uses have been in the field of chemical process modelling, with its novel modelling language conventions and powerful solver.	Chemical Engineering
Joomla	Content Management System		To build Website.	All the Departments
Biopython	Tool for Computational Biology and Bioinformatics.		To access online database such as NCBI. It can perform common operations such as transcription, translation, obtain complements, reverse complements, parsing, running BLAST.	Biology, Biochemistry and Dept. of Bioinformatics.
Java Business Application	To create a business application from scratch. Example : Library Management System		To built the business application and provide domain expertise	Computer Science and IT
Kturtle	An educational programming environment which helps in learning how to build logic and how to program, in an easy manner.		Some of its features are : intuitive syntax highlighting, simple error messages, integrated canvas to make drawings on, integrated help function, slowmotion or step execution, and more.	School level
Ktouch	Typing tutor teaches how to type using an online interactive keyboard		Learn typing at your own pace. Gradually increase your typing speed and along with it, your accuracy.	

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