

# Spoken Tutorial Project, IIT Bombay Brochure for Chemistry Department



Name of FOSS	Applications	Employability
<b>GChemPaint</b>	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.
<b>Jmol</b>	Jmol applet is used to explore the structure of molecules. Jmol applet is used to depict X-ray structures	Jmol is a free, open source molecule viewer for students, educators, and researchers in chemistry and biochemistry. It is cross-platform, running on Windows, Mac OS X, and Linux/Unix systems.
<b>For PG Students</b>		
<b>LaTeX</b>	Document markup language and preparation system for Tex typesetting	Value addition to academic Skills set. Essential for International paper presentation and scientific journals. For PG student for their project work
<b>Scilab</b>	Scientific Computation package for numerical computations	Value addition in technical problem solving via use of computational methods for engineering problems, Applicable in Chemical, ECE, Electrical, Electronics, Civil, Mechanical, Mathematics etc. For PG student who are taking Physical Chemistry
<b>Avogadro</b>	Avogadro is a free and open source, advanced molecule editor and visualizer designed for cross-platform use in computational chemistry, molecular modeling, material science, bioinformatics, etc.	Research and Development in Chemistry, Pharmacist and University lecturers.

# Spoken Tutorial Project, IIT Bombay Brochure for Commerce and Commerce IT



Name of FOSS	Applications / Employability
<b>LibreOffice – Writer, Calc, Impress</b>	Writing letters, documents, creating spreadsheets, tables, making presentations, desktop publishing
<b>LibreOffice – Base, Draw, Math</b>	Managing databases, Drawing, doing simple Mathematical operations
<b>For Commerce IT Students</b>	
<b>Drupal</b>	<p>Drupal is a free and open source content management system (CMS).</p> <p>Developing &amp; Testing architect, Computer solutions, Computer technologies, Information systems, HR services and management, Digital solutions. E-Commerce and Entrepreneurship.</p>
<b>Front Accounting</b>	<p>Front Accounting (FA) is a free and open source accounting software.</p> <p>Front Accounting (FA) is a professional web-based Accounting system for the entire ERP (Enterprise Resource Planning) chain.</p>
<b>C/C++ and Java</b>	<p>Programmer in IT Industry working in C, Java.</p> <p>Popular companies requiring programmers on C/C++, Java are HCL technologies, Wipro, L&amp;T, TCS.</p>
<b>Linux</b>	<p>Linux is one of the most popular Operating Systems used in today's world. It is a Unix-like computer operating systems using the Linux kernel.</p> <p>JP Morgan, SAS Research developer, Corporate resource managers. e-Governance projects under Government of India.</p>
<b>PHP &amp; MySQL</b>	<p>Website Developer in all types of small and large enterprises, popular companies hiring PHP&amp;MySQL trained persons are Air-India, Bridge &amp; Roof Co., Media channels, agencies etc. For MCA students it is applicable for Database Management System.</p>

# Spoken Tutorial Project, IIT Bombay Brochure for Computer Science and IT Department



Name of FOSS	Applications	Employability
<b>C/C++, Java, Netbeans and Python</b>	Programming language	Programmer in IT Industry working in C, Java, Netbeans and Python. Popular companies requiring programmers on C/C++, Java and Python are HCL .
<b>Ruby</b>	Programming language	A dynamic, open source programming language with a focus on simplicity and productivity. It has an elegant syntax that is natural to read and easy to write. It also has a dynamic type system and automatic memory management.
<b>Perl</b>	High-level programming language	Perl has been called the system administrator's best friend for its ability to make common tasks easy. It is particularly well-suited for software tools, system management tasks, database access, graphical programming, networking, and web programming.
<b>Scilab</b>	Scientific Computation package for numerical computations	Value addition in technical problem solving via use of computational methods. For MCA students it is applicable for Data mining and Probability/Statistics
<b>Blender</b>	Animation and Computer Graphics	Animator in graphic and animation media, film etc. Sectors, such as advertising computer games, TV, education, interior-decoration, etc.

Name of FOSS	Applications	Employability
<b>PHP&amp;MySQL</b>	Web development and Database Management	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. For MCA students it is applicable for Database Management System.
<b>Drupal</b>	Drupal is a free and open source content management system (CMS).	Developing & Testing architect, Computer solutions, Computer technologies, Information systems, HR services and management, Digital solutions. E-Commerce and Entrepreneurship.
<b>Git</b>	Git is a distributed version control software. It is a widely used source code management system for software development.	Cloud expertise companies, in E-Commerce, online trading and marketing companies.



# Spoken Tutorial Project, IIT Bombay

## Brochure for MBA / BBA / BMS



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<b>C/C++, Java and Python</b>	<p>Programmer in IT Industry working in C, Java, Netbeans and Python. Popular companies requiring programmers on C/C++, Java and Python are HCL technologies, Wipro, L&amp;T, TCS.</p> <p>For MBA students it is applicable for Information Technology for Managers and IT lab.</p>
<b>Scilab</b>	<p>For Maintenance of a project, assistance. In companies Scilab deploys faster infrastructure, accelerates software adoption by employees and save time in solving problem.</p> <p>For MBA students it is applicable for Operations Research and Statistics, Modeling of Consumer Behaviour, Marketing behaviour.</p>
<b>PHP&amp;MySQL</b>	<p>PHP is one of the most widely-used scripting languages around, and this course will help you master the basics of the language so that you can build your own website, or help refine your company's.</p> <p>For MBA students it is applicable for Database Management Systems.</p>
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<b>LibreOffice – Base, Draw, Math</b>	<p>Managing databases, Drawing, doing simple Mathematical operations</p>
<b>Drupal</b>	<p>Drupal is a free and open source content management system (CMS).</p> <p>Developing &amp; Testing architect, Computer solutions, Computer technologies, Information systems, HR services and management, Digital solutions. E-Commerce and Entrepreneurship.</p>

# Spoken Tutorial Project, IIT Bombay

## Brochure for MCA

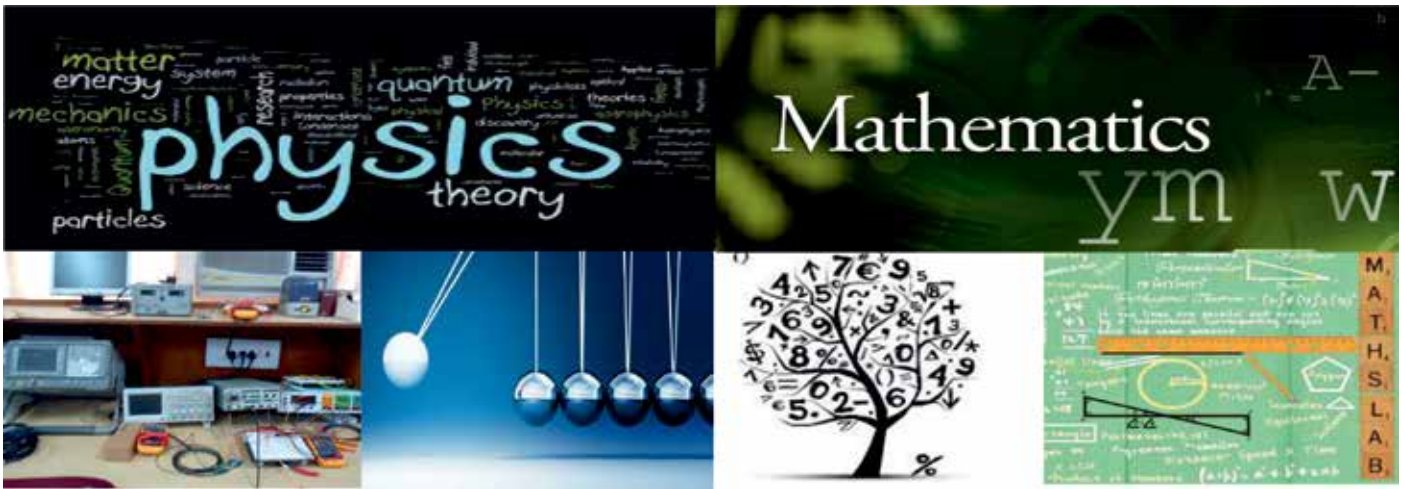


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<b>Joomla</b>	Joomla is a Content Management System (CMS) and helps one store content (text, documents, photos, videos etc) on websites	It can be used for building websites of all kinds- corporate, personal, eCommerce, charity, educational, travel, news, magazines etc.
<b>Git</b>	Git is a distributed version control software. It is a widely used source code management system for software development.	Cloud expertise companies, in E-Commerce, online trading and marketing companies.



# Spoken Tutorial Project, IIT Bombay Brochure for Physics, Mathematics and Statistics Department



Name of FOSS	Applications / Employability
<b>Scilab</b>	Use computational software to organize, condition and present experimental data. solve systems of equations e.g. parametric equations, using computational software. simulate and model conventional physical systems (complex systems, transient phenomena). Scilab provides simple matrix operations such as multiplication, the Scilab package also provides a library of high-level operations such as correlation and complex multidimensional arithmetic. The software can be used for signal processing, statistical analysis, image enhancement, fluid dynamics simulations, and numerical optimization
<b>LibreOffice – Writer, Calc, Impress</b>	Writing letters, documents, creating spreadsheets, tables, making presentations, desktop publishing
<b>LibreOffice – Base, Draw</b>	Managing databases, Drawing, doing simple Mathematical operations
<b>Oscad - now FreeEDA</b>	EDA tool for circuit design, simulation, analysis and PCB design. PCB designer in SME's and academic institutions, Lab assistant for Electronic Circuit Lab, Electronic network designer.
<b>For PG Students</b>	
<b>LaTeX</b>	Value addition to academic Skills set. Essential for International paper presentation and scientific journals. For PG student for their project work.
<b>Arduino</b>	<p>Arduino is open-source hardware, open-source software and microcontroller based kit.</p> <p>It is intended for artists, designers, hobbyists, and anyone interested in creating interactive objects or environments. Microcontroller and embedded system manufacturing industry. Good for Robotics.</p>
<b>Ngspice</b>	<p>Ngspice is a general-purpose Electrical / Electronics circuit simulation program for nonlinear and linear analysis.</p> <p>Ngspice is essentially useful to those who deal with electrical and electronic circuits for various reasons. It is also useful for circuit designers practicing engineers in electrical engineering, design automation and component manufacturing industry</p>