JIS College of Engineering

(An Autonomous Institute)

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CIRCULAR

This is to inform all the concerned that JIS College of Engineering is the **RESOURCE** (**R**obust **E**xtensions for **S**poken **T**utorial Project on **O**pen **S**ource **S**oftware **U**sage for **R**ecruitment, **C**ommunity and **E**ducation) Center for promoting the SPOKEN Tutorial Project of Indian Institute of Technology, Bombay.

This Center trains the faculties of JIS College of Engineering and the faculties under JIS Group along with the selected students.

The Spoken Tutorial class will improve knowledge base of the faculties and students. The Principals are requested to inform the faculties for training in July, 2014 (Exact date will be notified later on).

The training will be on the following areas:

Software	Application
Basic IT Skills package	Learn how to use • The Linux operating system • LibreOffice Suite - for basic Office applications and • Firefox web browser - to browse the internet safely This package is useful to all who wish to learn basic IT skills. Absolute must for beginners.
Blender	Open source equivalent to Maya and 3DMax. Useful to create 3D Animation for Architecture & Animation students. Can be used by Civil Engineering students, also.
C and C++ Basic and Intermediate Levels	Powerful features, simple syntax, and portability make C a preferred language among programmers, for business and industrial applications. Widely used in the development of operating systems.
Advanced C++	Will be available only after the pilot workshop is successfully completed. For Advanced C++ series, learner should necessarily go through C and C++ series beforehand.
Firefox	Free, open source and popular web browser. Allows you to view Internet web pages, navigate through web pages, and search for web pages using search engines such as Google, Yahoo Search or Bing.
GChemPaint	Will be available only after the pilot workshop is successfully completed.

	GChemPaint allows you to draw and display 2D chemical structures. This application is useful for school students (9th standard and above) as well as school teachers. Very useful to teach and learn abstract chemistry concepts.
GeoGebra	Interactive Geometry, Algebra and Calculus application for school students (7th standard and above) as well as school teachers. Very useful to teach and learn abstract geometry concepts.
GIMP	Graphics art and design software application for the editing and creation of original images, icons, graphical elements of web pages and art for user interface elements. Useful for all graphic related work.
Java and Netbeans	Learn to use Java • Free and open source, high level, simple as well as object-oriented programming language. Included in the curriculum of schools and colleges offering Computer Science and IT subjects. Learn to use Netbeans IDE • NetBeans IDE is an open-source integrated development environment. NetBeans IDE supports development of all Java application types (Java SE including JavaFX, (Java ME, web, EJB and mobile applications) • With Netbeans IDE, one can quickly and easily develop desktop, mobile and web applications with Java, HTML5, PHP, C/C++ and more We recommend that Java'*Bold text'* series be followed with Netbeans series.
Java Business Application	Learn how to create a business application from scratch. For Java Business Application series, learner should necessarily go through Java and Netbeans series beforehand.
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, slow-motion or step execution, and more. Recommended for all who would like to know how to program.
LaTeX & XFig	LaTeX is a typesetting software for preparing reports, letters and presentations - specially useful for persons engaged in writing/ publishing documents from science/ arts/ commerce fields. Xfig is a free and open source vector graphics editor. In Xfig, figures may be drawn

	using objects such as circles, boxes, lines, spline curves, text, etc. ... and used in LaTeX and other documents.
LibreOffice Suite	Trains in basic computer usage skills like Word processing, Spreadsheet, Presentation using the LibreOffice components Writer, Calc and Impress components. One can also learn other useful components like Draw, Math and Base in this series.
Linux and Ubuntu	Free operating system, almost neutral to virus attacks and no hassles for licensing issues.
OpenFOAM	Open source/ free CFD (Computational Fluid Dynamics) software available for solving and analyzing problems and to create a real world fluid flow movie. Open source equivalent to FLUENT. Widely used in Academics and is gaining popularity in Industry as well- Companies including AUDI, Tata Steel, Volkswagen, and Govt. agencies like BARC (Babha Atomic Research Center).
PHP & MySQL	Package for developing interactive websites and establishing back-end connectivity with a database - Famous websites using PHP include Facebook, Google, and Wikipedia.
Python	Numerical computational software for Science and Engineering Education - used in 3D animation and Gaming industry, Artificial Intelligence, YouTube, NASA, CERN, Yahoo and so on.
Scilab	Mathematical and scientific calculation software, open source substitute for MATLAB, very useful for all science and engineering students, in academics particularly.

The Principals are requested to do the needful and in case of any clarification please contact the following:

Ms. Trupti More
Project Manager
Spoken Tutorial Project, IIT Bombay
http://www.spoken-tutorial.org
email: truptismore@yahoo.com
Ph: 022-2576-4229
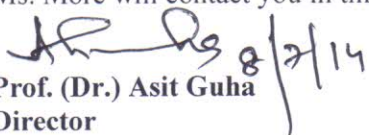**(M)09820096122**

Mr. Soumyabrata Saha
Assistant Professor
Department of Information Technology
JIS College of Engineering
som.brata@gmail.com, **Ph-9836516088**
Ms. More will contact you in this regards regarding the program and clarify if necessary.

8/7/14

Prof. (Dr.) Asit Guha
Director
JIS Group

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- **Soumayabrata Saha,** Dept. of IT, Ph-9836516088

Departmental Coordinator for the SPOKEN Tutorial Project at, JIS College of Engineering

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Dedicated Team to work on Spoken Tutorial along with their contact details enclosed.

Prof. (Dr.) Asit Guha
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