ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ
(1961 ਦੇ ਪੰਜਾਬ ਐਕਟ ਨੰ:35 ਤਹਿਤ ਸਥਾਪਤ)

ਨੰ: S\ਖ\ -੧

ਮਿਤੀ 04.08.2015

ਮੁਖੀ ਸਾਹਿਬਾਨ
ਸਮੂਹ ਅਧਿਆਪਨ ਵਿਭਾਗ ਅਤੇ
ਪ੍ਰਿੰਸੀਪਲ ਸਾਹਿਬਾਨ
ਸਮੂਹ ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ ਨਾਲ ਸੰਬੰਧਿਤ ਕਾਲਜ

ਵਿਸ਼ਾ : Software Training in SELF Learning Way by IIT, Bombay

ਸ੍ਰੀਮਾਨ/ਸ੍ਰੀਮਤੀ ਜੀ,

ਆਪ ਜੀ ਨੂੰ ਜਾਣ ਕੇ ਬੜੀ ਖੁਸ਼ੀ ਹੋਵੇਗੀ ਕਿ ICT, MHRD, Government of India ਵਲੋਂ Indian Institute of Technology, Bombay ਰਾਹੀਂ ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ ਦੇ ਅਧਿਆਪਨ ਵਿਭਾਗਾਂ ਅਤੇ ਸੰਬੰਧਿਤ ਕਾਲਜਾਂ ਵਿਖੇ Software Training Program ਸ਼ੁਰੂ ਕੀਤਾ ਜਾਣਾ ਹੈ, ਜਿਸ ਅਧੀਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ Software Training in SELF Learning Way ਸਿੱਖਿਆ ਪ੍ਰਦਾਨ ਕੀਤੀ ਜਾਣੀ ਹੈ। ਇਸ ਸੰਬੰਧ ਵਿਚ Indian Institute of Technology, Bombay ਪਾਸੋਂ Proposal - Spoken Tutorial Project, IIT Bombay/Mutual Agreement ਦੀ ਪ੍ਰਾਪਤ ਕਾਪੀ ਇਸ ਪੱਤਰ ਨਾਲ ਨੱਥੀ ਹੈ। *(ਕਾਪੀ ਨੱਥੀ ਹੈ)*

ਇਥੇ ਇਹ ਦੱਸਿਆ ਜਾਂਦਾ ਹੈ ਕਿ ਉਪਰੋਕਤ ਸੰਸਥਾ ਦੀਆਂ ਹਦਾਇਤਾਂ ਅਨੁਸਾਰ ਇਸ ਟ੍ਰੇਨਿੰਗ ਪ੍ਰੋਗਰਾਮ ਲਈ ਕੇਵਲ **20 ਕਾਲਜਾਂ** ਨੂੰ ਹੀ ਚੁਣਿਆ ਜਾਣਾ ਹੈ।

ਉਪਰੋਕਤ ਦੀ ਲੋਅ ਵਿਚ ਆਪ ਜੀ ਨੇ Software Training Program ਲਈ ਆਪਣੇ ਕਾਲਜ ਦੀ ਫੈਕਲਟੀ ਵਿਚੋਂ ਇਕ ਅਧਿਆਪਕ ਨੂੰ ਬਤੌਰ Coordinator/Nodal/Link Officer ਨਿਯੁਕਤ ਕਰਨਾ ਹੈ ਜੋ ਇਸ ਪ੍ਰੋਗਰਾਮ ਨੂੰ ਸ਼ੁਰੂ ਕਰਨ ਵਿਚ lead ਕਰਨਗੇ। ਆਪ ਨੇ ਉਨ੍ਹਾਂ ਸਾਰਿਆਂ ਵਿਭਾਗਾਂ ਨੂੰ ਆਪਣੇ ਨਾਲ ਜੋੜਨਾ ਹੈ, ਜਿਨ੍ਹਾਂ ਵਿਭਾਗਾਂ ਵਿਚ ਕੰਪਿਊਟਰ ਜਾਂ ਇਸ ਨਾਲ ਸੰਬਧਿਤ ਹੋਰ ਕੋਈ ਵੀ ਵਿਸ਼ਾ ਪੜਾਇਆ ਜਾ ਰਿਹਾ ਹੈ, ਭਾਵ PGDCA, BCA, MCA, MBA etc.

ਇਥੇ ਇਹ ਵੀ ਦੱਸਣਾ ਉਚਿਤ ਹੋਵੇਗਾ ਕਿ ਉਪਰੋਕਤ ਸੰਸਥਾ ਵਲੋਂ ਇਸ ਸੰਬੰਧ ਵਿਚ ਅਗਸਤ ਮਹੀਨੇ ਦੇ ਦੂਜੇ ਹਫ਼ਤੇ ਦੌਰਾਨ ਇਕ Awareness-cum-Training Event ਆਯੋਜਿਤ ਕਰਨ ਲਈ ਲਿਖਿਆ ਹੈ ਇਸ ਲਈ ਆਪ ਜੀ ਨੂੰ ਬੇਨਤੀ ਹੈ ਕਿ ਇਸ ਮੰਤਵ ਲਈ ਆਪ ਜੀ ਨੇ Coordinator/Nodal/Link Officer ਨਿਯੁਕਤ ਕਰਕੇ, ਉਨ੍ਹਾਂ ਦੀ ਪੂਰੀ ਡਿਟੇਲ (with mobile no./email address) ਹਮਤਾਖ਼ਰ-ਕਰਤਾ ਨੂੰ hard copy ਅਤੇ email ਰਾਹੀਂ ਜਲਦੀ ਤੋਂ ਜਲਦੀ ਭੇਜਣ ਦੀ ਖੇਚਲ ਕਰਨੀ ਜੀ।

Proposal - Spoken Tutorial Project, IIT Bombay ਅਤੇ **E-Brochure, IIT Bombay** ਦੀ ਕਾਪੀ ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ ਦੀ ਵੈੱਬਸਾਈਟ **punjabiuniversity.ac.in** ਤੇ ਵੀ ਉਪਲਬਧ ਹੈ ਜੀ।

ਇਸ ਨੂੰ ਅਤਿ ਜਰੂਰੀ ਸਮਝਿਆ ਜਾਵੇ ਜੀ।

(ਪ੍ਰੋ. ਰਾਜਿੰਦਰ ਪਾਲ ਸਿੰਘ ਬਰਾੜ)
ਐਡੀਸ਼ਨਲ ਡੀਨ,
ਕਾਲਜ ਵਿਕਾਸ ਕੌਂਸਲ
email : rpsbrar63@yahoo.com
(98150-50617, 0175-304-6165, 6161)

Encls. Copy of :

1) Proposal - Spoken Tutorial Project,
   IIT Bombay (Page 1-2)
2) E-Brochure, IIT Bombay (Page 1-4)

भारतीय प्रौद्योगिकी संस्थान मुंबई
पवई, मुंबई-400 076, भारत

Indian Institute of Technology Bombay
Powai, Mumbai-400 076, India

दूरभाष/Phone : (+91-22) 2572 2545
फैक्स/Fax   : (+91-22) 2572 3480
वेबसाईट/Website : www.iitb.ac.in

Proposal From
Spoken Tutorial Project, IIT Bombay

We are happy to announce, collaboration between Punjabi University and IIT Bombay Spoken Tutorial program. We are providing opportunity to conduct Software Training Program, Free of Cost to all affiliated colleges and University departments of Punjabi University. The program will be handled by appointing a central coordinator and Nodal/Link Officers drwan from Faculty in the University Campus and in a few affiliated colleges. The Spoken Tutorial activity is funded by the National Mission on Education through ICT, MHRD, Government of India, and run out of IIT Bombay.

Punjabi University will -

- Appoint a Central coordinator who will interact with us in the start to send Notifications/ Circulars and for activities related to introduce Spoken Tutorial based Software Training in all the departments and affiliated colleges of Punjabi University.
- Punjabi University will organise an awareness cum Training event, where 1-2 faculty members, from each affiliated college will attend to learn how to introduce Software training in SELF learning way, in their respective colleges.
- Put up the signed agreement note on the Punjabi University website along with Spoken Tutorial site link and Punjab manager Ms. Pooja Singh contact details.
- Identify Nodal colleges who will take the lead in starting the training
- Issuing periodic Circulars/Notifications, at the start of each semester, to all the affiliated colleges coming under Punjabi University to introduce and roll out the Spoken Tutorial based software training in their colleges. All the notification should go mentioning the relevant links and contact details.
- Include the relevant Software series Tutorials in the courses of the departments in the university and affiliated colleges, wherever feasible.
- Put into place a monitoring system, like a track data sheet to keep a record of the Spoken Tutorial based software training that colleges have done.
- Affiliated colleges will include Spoken Tutorial in time table to execute the training program.

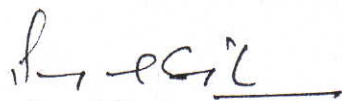Ms. Pooja Singh - mail ID - singhpooja0389@gmail.com

Mob. :+91 8600408189 Website link is htttp://spoken-tutorial.org

As a Partner, the Spoken Tutorial Project, IIT Bombay will -

- Work as a mentor for Punjabi University in incorporating Technology enabled learning into the university, specifically NMEICT programs like Spoken Tutorials.

- Spoken Tutorial team, IIT Bombay will support the Training in every college and department by providing detailed and continuous guidance at the smallest that is the departmental level to all.

- Provide the know-how and course content which includes demo CDs/ DVDs, online material, instruction sheets and other training documents to Punjabi University free of cost.

- Issue Certificates to all students who undergo the training and/or get hands on exposure to the Spoken Tutorial based Software courses – free of cost.

- Provide the promotional materials like posters, brochures, leaflets, banners etc., to the university and the colleges free of cost.
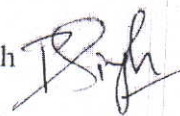
General

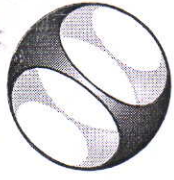- This agreement can be modified from time to time, if necessary, based on mutual agreement.

Dr. Jaspal Singh

Vice-Chancellor,
Punjabi University, Patiala.
Vice-Chancellor
Punjabi University
Signature & Stamp

Ms. Pooja Singh

Training Coordinator Punjab
Spoken Tutorial Project, IIT Bombay

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
Writer	Word Processing, Documentation	Word		
Calc	Spreadsheets	Excel		
Impress	Presentations	Powerpoint		
Base	Managing Databases	Access		
Draw	Drawing	Paint		
Math	Mathematical Operations	MathType		
PHP&MySQL	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

Name of FOSS	Applications	Commercial equivalent	Employability	Department
Scilab	Scientific Computation package for numerical computations	Matlab	Value addition in technical problem solving via use of computational methods for engineering problems, Applicable in Chemical, ECE, Electrical, Electronics, Civil, Mechanical, Mathematics etc.	Computer Science, IT, Electronics, ECE, 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 FreeEDA	EDA tool for circuit design, simulation, analysis and PCB design.	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, Q-CAD	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
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
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.

Name of FOSS	Applications	Commercial equivalent	Employability	Department
Perl	High-level programming language	Basic, Ruby, Awk, assembler, PDL, TCL, Octave, Guile, SLang, Befung and Lua	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.
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.	Biochemical Networks
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.	Chemistry
Inkscape	Graphic Designing	Adobe Illustrator, Coreldraw	Photo editing, Photo Manipulation and Graphic Design	Designing
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

Name of FOSS	Applications	Commercial equivalent	Employability	Department
Bash	Bash is a "Unix shell" command line 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
Java Business Application	To create a business application from scratch.		To built the business application and provide domain expertise	Library Management System
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.	All the department
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.	

www.spoken-tutorial.org

Link for matching courses using spoken-tutorial

http://process.spoken-tutorial.org/images/7/72/Matching_spoken-tutorial.pdf