



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ
("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ
ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)



Visvesvaraya Technological University

(State University of Government of Karnataka Established as per the VTU Act, 1994)
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REGISTRAR

Ref: VTU/Aca/2022-23/ **723**

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CIRCULAR

**Subject: Summer Faculty Development Program with Certification from
IIT Bombay Spoken Tutorial Program, MoE, Govt of India**

The award winning IIT Bombay - Spoken Tutorial (ST) MOOCs training is facilitating Faculty Development Program as Summer is here. This will be more beneficial for the faculties to upskill themselves. This is a project under the MoE Govt. Of India. Faculties from various colleges may take up these courses online or offline and at their convenient time for getting the required certifications from IIT Bombay on various lucrative courses.

Faculty Development Program Benefits:

- Learn practically via the self-learning method in your own time, approx. 2-3 weeks (25 to 30 hrs)
- Two certificates will be provided - Participation certification after training and Course completion certificate on completing the examination with a minimum of 40%.
- The course video content can be downloaded and used as a teaching aid as well to become a "SMART Classroom" teacher
- Complete in-service, GOI, MoE, UGC, etc. requirements to learn ICT, MOOCs courses.

The course is designed for self-learning, has assignments, certification and exams. The training is absolutely free of cost as any one can learn the courses online. A nominal amount of Rs 590/- per faculty per course needs to be paid for the certifications. The colleges can also subscribe for the program annually.

Website- <http://spoken-tutorial.org>.

Faculty Development Program Details:

- Faculty Members can participate and acquire the skills and Inservice training requirements through IIT Bombay Spoken Tutorial courses **like Moodle LMS, R Programming, Scilab, LaTeX, Python**, and Many more. (**E-Brochure**)
- Enrol and download the content for offline or online learning.
- After the course completion date, take up the online exams on our portal at your convenient date and time to get the certificates.

NOTE:

To know more about above mentioned program details, contact **Srigowri M P, Training Manager, Karnataka** on **8147569645** or write to **srigowristiitb@gmail.com** to register for the training program & confirmation.

Yours faithfully,

Rangaswamy BE

REGISTRAR

P. S. P. T. I.

To,

The Principals of all Engineering Colleges affiliated and the constituent Engineering College,
VTU, Belagavi.

Copy to,

1. The In-charge , ITISUM, VTU, Belegavi to upload on the website and email to Principals of all Engineering Colleges affiliated and the constituent Engineering College, VTU, Belagavi.

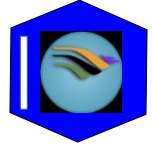
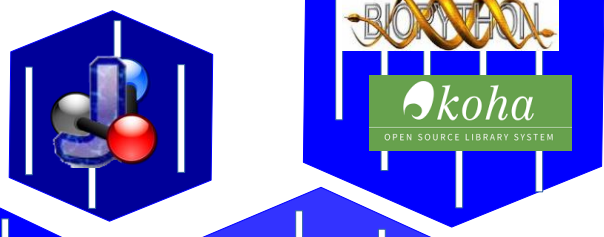
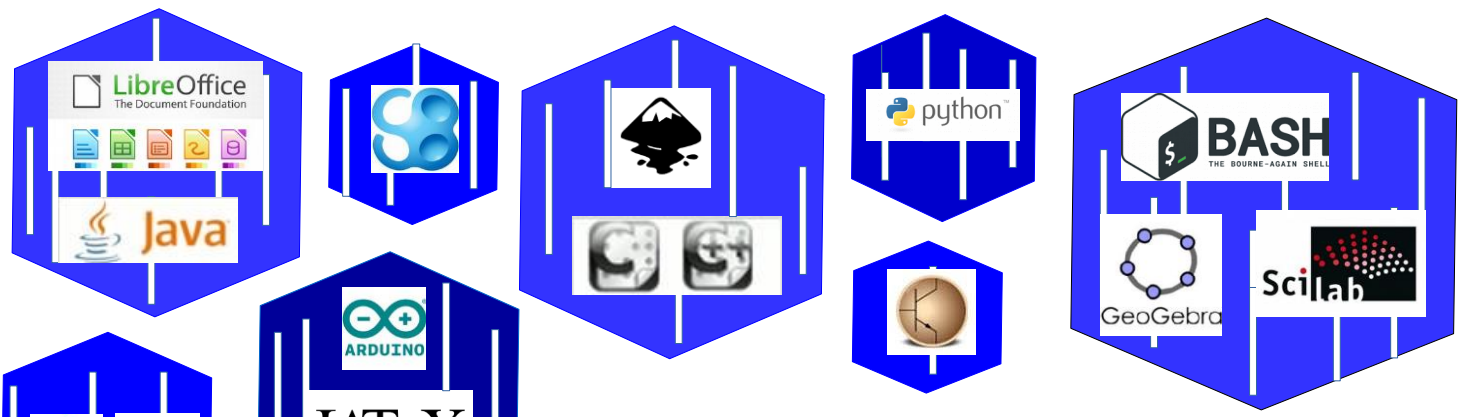


Learn Free and Open Source Software through Spoken Tutorial at Very Low Cost



Spoken Tutorial

IIT Bombay



E-Brochure

Arduino QCad
 Advanced DWSIM Drupal
 Python C++ Ruby Scilab eSim
 Blender HTML Tux
 Linux AWK Koha PERL Typing
 GIMP Libreoffice
 Linux OpenFOAM Latex Bio
 BASH C/C++ Python
 Inkscape GIT Jmol Java
 OpenModelica Application Xfig
 GeoGebra ExpEYES Avogadro
 Moodle NetBeans GChemPaint
 Cell Designer PHP & MySQL

Basic Computer Skills & Office Automation

Software / FOSS name	Applications / Skills & Employability
Introduction to Computers	How to use computers for day-today activities.
LibreOffice – Writer, Calc, Impress, Base, Draw, Math	Office Automation system – Documentation, Spreadsheet, Slide making.
Linux, Linux AWK, Ubuntu, BOSS	Free and Open source operating system. Actively being taken up by E-Governance programs and SMEs.
Firefox	Web browser. Used for all internet browsing purposes.
Tux Typing	Teaches 10 Finger typing.

Programming Languages / Information Technology

C / C++, Advance C++, Java, Java Business Application, Netbeans	C is the most popular language worldwide. Java is also popular with ability to run the same program on different systems relevant to World Wide Web <i>software</i> . NetBeans is an open-source integrated development environment (IDE). Smooth JavaScript editor, Templates profiler & GUI Design tool. JBA is used to create business applications and provide domain expertise.
Ruby	Ruby is an object oriented scripting language use widely for developing web applications.
GIT	GIT is a version-control system for tracking changes in computer files and coordinating work on those files among multiple people.
Android App using Kotlin	Learn to architect and develop Android apps in the Kotlin programming language. With these techniques you'll create apps in less time, writing less code, and with fewer errors.
HTML	Hypertext Markup Language is the standard markup language for documents designed to be displayed in a web browser.

Modelling and Simulation

DWSIM	DWSIM is a software for modeling, simulation, and optimization of steady-state chemical processes, Use in Chemical industry.
OpenModelica	OpenModelica is used for Simulating, Optimising, Analysing complex dynamic systems. Eg. In power plant, water treatment, automotive processes optimization.

Mathematics / Statistics

GeoGebra	Dynamic Mathematics Software (DMS) for teaching and learning mathematics from middle school through college level.
R (like SPSS)	Programming language used for statistical computing and graphics.
Biopython	Tool for Computational Biology and Bioinformatics.

Multimedia / Drawing

GIMP (like Photoshop)	GIMP is a graphics editor used for image retouching and editing, free-form drawing etc.
Inkscape (like Corel Draw)	Inkscape designs and creates a wide variety of graphics such as illustrations, icons, logos, diagrams, maps and web graphics.
Blender (like Maya 3D)	Blender is a 3D computer graphics software toolset used for creating animated films, visual effects, art, 3D printed models, games.
QCad	QCAD is used to create technical drawings such as plans for buildings, interiors, mechanical parts or schematics and diagrams.
Synfig	Synfig Studio eliminates the need to create animation frame-by-frame, allowing you to produce 2D animation of a higher quality with fewer people and resources.

Scripting Languages / Web Development

Python	Used for web programming eg. Django, Zope, Google App Engine, Desktop applications, Web Development sites eg. Facebook, Google search, Wikipedia.
PERL	Perl is a general-purpose programming language useful as a Glue language for tying together systems – hence invaluable to System Administrators and for Web Development.
PHP & MySQL	Used as Web development and Database Management Systems package.
Drupal	Drupal is a content management system (CMS) written in PHP and distributed under the GNU General Public License. Useful for website-building and web applications.

Mechanical / Civil / Electrical - Engineering disciplines

Open Foam	Data processing and visualisation. Aerodynamics, Building constructions.
Oscad (eSim)	Tool for circuit design, simulation, analysis and PCB design.
QGIS	QGIS is an application that supports viewing, editing, and analysis of geospatial data. It allows users to analyse and edit spatial information, in addition to composing and exporting graphical maps.

Chemistry / Bio-Chemistry

Avogadro	Avogadro is a molecule editor and visualizer.
GChemPaint	GChemPaint allows you to draw and display 2D chemical structures. Very useful to teach and learn abstract chemistry concepts.
Cell Designer	Cell designer is a drawing tool – a structured diagram editor for biochemical networks & gene-regulatory drawings.
Jmol Application	It is used for molecular modelling chemical structures in 3 dimensions. eg. In molecular biology pertinent structures.

Electronics / Physics

Arduino	Arduino is an open source platform used for building electronics projects. Or creating interactive objects or environments. eg. Used in Robotics
ExpEYES	ExpEYES stands for Experiments for Young Engineers and Scientists. A tool for learning science by exploring and experimenting.
Single Board Heater System(SBHS)	The application of this device is in the Control Systems area of Engineering.

Learning Management System

Moodle	Moodle is a learning management system or an online platform for customized learning, assignment and assessment purposes.
LaTeX	The best tool for Technical writing. eg. Math typesetting for Science, Engineering, Technology writing of theses, projects, journal articles, books etc. LaTeX has automatic generation of high quality PDF reports.
Scilab (like MATLAB)	Scientific computation package for Advanced mathematical computations. Use for academics in Physics, Engineering, Applied mathematics, Statistics & in Data Analytics companies and departments.

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<http://spoken-tutorial.org>