



Chief Minister



**N. Biren**  
Hon'ble Chief Minister

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\*\*\* Launching of Online application for General Provident Fund (GPF) \*\*\*

Latest News

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From the Minister's Desk



**Dr. Th. Radheshyam**  
Hon'ble Minister Education

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GOVERNMENT OF MANIPUR  
OFFICE OF THE DIRECTORATE OF UNIVERSITY & HIGHER  
EDUCATION,  
MANIPUR

—  
**NOTICE**

Imphal, the 3<sup>rd</sup> April, 2020

**“Remote Learning”with IIT Bombay – Spoken Tutorial”**

Directorate of University and Higher Education, Manipur in association with IIT Bombay Spoken Tutorials is recommending to engage students by referring them to learn IT Software Courses during the closure of Institutions due to Corona Virus occurrence.

Instructions for Downloading and Installing the Tutorials

- Click on [https://spoken-tutorial.org/create\\_cd\\_content/](https://spoken-tutorial.org/create_cd_content/)
- Click on the FOSS category, Please select the Software to download which you have selected for training.
- After selecting the software and language click on Add.
- You will see a small table which will specify the software name and language you have selected to download. Click on Submit.
- This will prompt a window to open/save the zip file. Please save the zip file
- Extract the content from the zip file into a folder.
- Open the folder. Locate the read-me-first.txt file. Open it and read it carefully.
- To begin the training, the participants have to open index.html file, which is present in the extracted folder.
- To do so, right-click on index.html and choose Open with Firefox option.
- Now, follow the instructions given in the Instruction Sheet and begin learning.
- We recommend that participants should follow the sequence of topics given in the index.html file for better learning.
- For Side by Side practice please install the software by following steps in Installation sheet which is present in the extracted folder.

**Spoken Tutorial Program (ST) Courses Recommended for all Colleges (Students):-**

| <b>Departments</b>             | <b>Spoken Tutorial Courses</b>  |
|--------------------------------|---|
| B.Sc, M.Sc-IT/CS ,<br>BCA, MCA | C and Java  |
| B.A, B.Com                     | Libre Office Suite Writer, Calc and Impress(Same as MS-Office), Front Accounting, Introduction to Computers |
| MBA/MMS                        | Libre Office Suite Writer, Calc and Impress(Same as MS-Office), Introduction to Computers, GIMP, PHPMySQL   |
| B.Tech, B.E, M.Tech            | C, Python, Java, , Drupal, LaTeX, PHP&MySQL, Scilab, OpenFOAM etc.  |

Note:

- Scilab -useful for all branches as advanced computational package (Alternative of MATLAB)
- LaTeX -essential tool for Technology and Technical writing (for projects, papers) Many of the Journal Manuscript in LaTeX
- Drupal -Web development
- Python -Scripting Language (Easier then “C”)
- PHP and MySQL, RDBMS - PostgreSQL -for Database Management systems and web development
- C and C++-Programming Languages
- GeoGebra, R (like SPSS), Biopython – for Mathematics and Statistics

All Principals of Colleges, Manipur are requested to bring the contents of this circular to the faculty member and students.

You may contact Manipur Training Manager to initiate the same.

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**A Detailed list of Software Offered for Training which can be useful for faculty members and students**

Currently Spoken Tutorial project offers software training on the below mentioned list of software, applications and programming languages.

**Spoken Tutorial Software Series**

| <b>Software</b>                 | <b>Certificate Criteria</b> | <b>Application</b>   |
|---------------------------------|-----------------------------|--|
| <b>Basic IT Skills package</b>  |                             | <p>Learn how to use</p> <ul style="list-style-type: none"> <li>• The <b>Linux</b> operating system</li> <li>• <b>LibreOffice Suite</b> - for basic Office applications and</li> <li>• <b>Firefox</b> web browser - to browse the internet safely</li> </ul> <p>This package is useful to all who wish to learn basic IT skills. Absolute must for beginners.</p> |
| <b>Applications of GeoGebra</b> | Certificate                 | <p><b>Applications of GeoGebra</b> Interactive Geometry, Algebra and Calculus application for UG/PG students (12th standard and above) as well as Research Scholars.</p>   |
| <b>Arduino</b>                  | Certificate                 | <p><b>Arduino</b> is open source hardware, software and micro-controller based kit. It is used for building digital devices and interactive objects that can sense and control physical devices.</p> <p>Useful for High School and UG/PG Electronics students, hardware professional.</p>  |
| <b>Avogadro</b>                 | Certificate                 | <p><b>Avogadro</b> is a free and open source, advanced molecule editor and visualizer designed for cross-platform use in computational chemistry, bioinformatics, etc. It offers flexible high quality rendering.</p> <p>Useful for UG/PG Chemistry and Bioinformatics students.</p>   |
| <b>Biopython</b>                | Certificate                 | <p>Biopython is a collection of Python tools for computational biology and bioinformatics. Biopython contains modules and classes to represent protein sequences, nucleic acid sequences and sequence annotations.</p> <p>Useful for UG/PG Bioinformatics students.</p>  |
| <b>C and C++</b>                | Certificate                 | <p>Powerful features, simple syntax, and portability make <b>C</b> a preferred language</p>  |

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|                                    |                                | <p>among programmers, for business and industrial applications. Widely used in the development of operating systems.</p> <p>Useful for High School and UG/PG CSE/CS/IT students and anyone who wishes to learning basic programming.</p>   |
| <b>Advanced C</b>                  | Training only, No certificates | <p>For <b>Advanced C</b> series, learner should necessarily go through C and C++ series beforehand.</p> <p>Useful for High School and UG/PG CSE/CS/IT students and anyone who wishes to learning advanced programming.</p>   |
| <b>Advanced C++</b>                | Certificate                    | <p>For <b>Advanced C++</b> series, learner should necessarily go through C and C++ series beforehand.</p> <p>Useful for UG/PG CSE/CS/IT students and anyone who wishes to learning advanced programming.</p>   |
| <b>CellDesigner</b>                | Certificate                    | <p>CellDesigner is a process diagram editor for drawing gene-regulatory and biochemical networks. CellDesigner is used for user-friendly visualization Modeling and Simulation of genetic regulatory networks, Protein networks and metabolic networks.</p> <p>Useful for UG/PG Bio-Chemistry students.</p>      |
| <b>Chemcollective Virtual Labs</b> | Certificate                    | <p><b>ChemCollective Virtual Labs</b> is a simulation of a chemistry laboratory. It allows students to explore and reinforce fundamental concepts, select various standard reagents (aqueous) and use them as they use in a real laboratory.</p> <p>Useful for Chemistry students from 9th standard onwards.</p> |
| <b>Drupal</b>                      | Certificate                    | <p>Drupal is a free and open source content management system (CMS) written in PHP and distributed under the GNU General Public License. Useful for website-building and web applications.</p> <p>Useful for web developers, website administrators, and UG/PG CSE/IT/CS</p>                                     |

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|                              |                                | students who wish to learn website management.   |
| <b>Exp Eyes</b>              | Certificate                    | ExpEYES stands for Experiments for Young Engineers and Scientists. It is used to perform basic Physics and Electronics experiments.<br><br>ExpEYES junior can be used from secondary to graduate level and also in some engineering branches.                          |
| <b>Firefox</b>               | Training only, No certificates | 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.<br><br>Anyone who wishes to learn web browsing.                      |
| <b>FrontAccounting-2.4.7</b> | Certificate                    | Free, open source business accounting software (having features similar to Tally).<br><br>Useful for UG/PG Commerce students.  |
| <b>GChemPaint</b>            | Certificate                    | <b>GChemPaint</b> allows you to draw and display 2D chemical structures. Very useful to teach and learn abstract chemistry concepts.<br><br>This application is useful for school students (9th standard and above) as well as school teachers.<br>Works only on Linux |
| <b>GeoGebra 5.04</b>         | Certificate                    | Interactive Geometry, Algebra and Calculus application. Very useful to teach and learn abstract geometry concepts.<br><br>Useful for school students (7th standard and above) as well as school teachers.  |
| <b>gedit Text Editor</b>     | Certificate                    | gedit Text Editor is a powerful general purpose text editor. It is free and open source software. It is simple and ease of use with simple GUI.<br><br>Useful for everyone who wish to learn to use a text editor in Linux.<br>Works only on Linux                     |
| <b>GIMP</b>                  | Certificate                    | Graphics art and design software application for the editing and creation of original images, icons, graphical elements of web pages and art   |

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|                                  |             | <p>for user interface elements. Useful for all graphic related work. Open source equivalent of <b>Photoshop</b>.</p> <p>Useful for High School and UG/PG students who wish to learn photoediting and create graphics.</p>  |
| <b>GIT</b>                       | Certificate | <p>Git is a distributed version control software. It is a free and open source software. It keeps track of changes made to a file or set of files. It helps in tracking the project progress history.</p> <p>Useful for UG/PG CSE/IT/CS students, working professionals</p>  |
| <b>HTML</b>                      | Certificate | <p>HTML elements form the building blocks of all websites. HTML allows embedding of images and objects and is extensively used to create interactive forms and webpages.</p> <p>Useful for High School and UG/PG students, working professionals - Multi-disciplinary</p>  |
| <b>Inkscape</b>                  | Certificate | <p>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. Open source equivalent of <b>CorelDraw</b> and <b>Illustrator</b>.</p> <p>Useful for High School and UG/PG students who wish to learn desktop publishing work - creating banners, posters, brochures, CD cover image, artwork for textiles, etc.</p> |
| <b>Introduction to Computers</b> | Certificate | <p>Absolute basic tutorials on parts of a computer, connecting the parts using cables, printer configuration, creating a gmail account, sending and receiving mails and using the Google Drive.</p> <p>Useful for first-time computer users of any age group.</p>  |
| <b>Jmol Application</b>          | Certificate | <p>Learn how to create 3D chemical, crystal and biomolecules structures. Very useful to teach and learn abstract chemistry concepts.</p>   |

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|                                       |   | This application is useful for school students (9th standard upto Post Graduation level) as well as school teachers.   |
| <b>Koha Library Management System</b> | Certificate                               | Learn how to create a library, a librarian, add books, journals, and other library items, Marc framework, order a book, cataloging, circulation, add subscription, serial subscription, receive serials, OPAC search, access library on web, cataloging using Z39.50, manage budgets and funds, convert Excel data to MARC, import MARC in Koha.<br><br>Koha is useful for Library Science students and Library Staff who wish to create a Koha library for their institute.                     |
| <b>KTurtle</b>                        | Certificate                               | 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.<br><br>Recommended for all who would like to learn programming logic.<br>Useful for school students (7th standard and above)  |
| <b>LaTeX &amp; XFig</b>               | (LaTeX) Certificate<br>(XFig) Certificate | <b>LaTeX</b> is a typesetting software for preparing reports, letters and presentations - specially useful for persons engaged in writing/publishing documents from science/ arts/ commerce fields.<br><b>Xfig</b> is a free and open source vector graphics editor. In <b>Xfig</b> , figures may be drawn using objects such as circles, boxes, lines, spline curves, text, etc. ... and used in <b>LaTeX</b> and other documents.<br>Useful for UG/PG students, faculty and research scholars. |
| <b>LibreOffice Suite</b>              | Certificate                               | Trains in basic computer usage skills like Word processing, Spreadsheet, Presentation using the LibreOffice components <b>Writer</b> , <b>Calc</b> and <b>Impress</b> . One can also learn other useful components like <b>Draw</b> , <b>Math</b> and <b>Base</b> in this series.  |



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|  |             | Useful for school students (7th standard and above), anyone who wishes to learn to use an OFFICE suite.  |
| <b>Moodle Learning Management System</b> | Certificate | <p>Moodle LMS is one of the most popular LMS used globally by educational institutes.</p> <p>This Moodle series is divided into 2 parts -</p> <ul style="list-style-type: none"> <li>• one for Moodle site administrators and</li> <li>• another for teachers.</li> </ul> <p>Moodle site Administrators</p> <ul style="list-style-type: none"> <li>• will install Moodle on the server</li> <li>• create course categories as per institute guidelines and</li> <li>• manage courses and user accounts for multiple courses</li> </ul> <p>Teachers will learn to-</p> <ul style="list-style-type: none"> <li>• upload and edit content for their course.</li> <li>• create assignments and quizzes to assess the students' progress and</li> <li>• enroll students to their course and communicate with them.</li> </ul> <p>Useful for system administrators, site administrators, trainers and faculty.<br/>Not useful for students</p> |
| <b>Python 3.4.3</b>                      | Certificate | <p>Numerical computational software for Science and Engineering Education - used in 3D animation and Gaming industry, Artificial Intelligence, YouTube, NASA, CERN, Yahoo and so on.</p> <p>Useful for UG/PG CSE/IT/CS students and CBSE high school students</p>  |
| <b>R</b>                                 | Certificate | <p>R is the most preferred open-source language for analytics and data science. R offers a large variety of statistical (linear and nonlinear modelling, classical statistical tests, time-series analysis, classification, clustering, ...) and graphical techniques, and is highly extensible.</p> <p>Useful for UG/PG CSE/IT/CS students to</p>   |

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|  |                                | learn statistics, big data, data science   |
| <b>Scilab</b>  | Certificate                    | Mathematical and scientific calculation software, open source substitute for MATLAB, very useful for all science and engineering students, in academics particularly.  |
| <b>Synfig 2D animation</b>                               | Not for Training               | 2D animation software designed as a powerful industrial-strength solution for creating film-quality animation using a vector and bitmap artwork.<br><br>Useful for High School and UG/PG students who wish to learn animation. |
| <b>UCSF Chimera</b>                                      | Certificate                    | UCSF Chimera is a program for interactive visualization and analysis of molecular structures and related data. Using Chimera, one can generate high-quality images and animations.<br><br>Useful for UG/PG Chemistry students. |
| <b>Typing Software</b>                                   |                                |  |
| <b>KTouch</b>  | Training only, No certificates | 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.   |
| <b>TuxTyping</b>   | Training only, No certificates | Typing application especially for children<br>Start typing, Practice lessons, Play a typing game, Set a language for typing  |
| <b>Utility software/application</b>                      |                                |  |
| <b>K3B</b>   | Not for Training               | Learn to burn audio/video/data CDs/DVDs using <b>K3B</b>   |
| <b>Filezilla</b>   | Not for Training               | Learn to configure and use <b>Filezilla</b> , a free file transfer protocol application that's easy to set-up and customize.   |
| <b>Thunderbird</b>                                       | Not for Training               | Learn to configure and use <b>Thunderbird</b> , a free email application that's easy to set-up and customize.  |
| <b>Screen-reading software for the Visually Impaired</b> |                                |  |
| <b>Orca</b>  | Training only, No certificates | Orca helps a visually-impaired person to navigate and use a PC/laptop for his/her day-to-day activities on their own without aided   |

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**(Kh. Diana Devi)**  
Director  
Directorate of University & Hr. Edn.  
Govt. of Manipur.

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