

## I. Software Offered

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

### Spoken Tutorial Software Series

No.	Software	Certificate Criteria	Application
1	Basic IT Skills package		<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>
2	Applications of GeoGebra	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>
3	Android app using Kotlin	Certificate	<p>Google has announced <b>Kotlin</b> as an official language on <b>Android</b>. <b>Kotlin</b>, is a statically typed programming language for the JVM, Android and the browser. It is expressive to make your code more readable and understandable.</p> <p>Useful for anyone who wants to learn how to make an <b>Android app</b></p>
4	Arduino	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>
5	Ascend	Training only, No certificates	<p><b>ASCEND</b> is a free, open source, mathematical modelling system.</p> <p>Its main uses have been in the field of <b>chemical process modelling</b>, with its novel modelling language conventions and powerful solver.</p> <p>Useful for UG/PG Chemical Engg and Chemistry students.</p>
6	Avogadro	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>
7	BASH	Certificate	<p><b>Bash</b> is a "Unix shell" command-line interface for interacting with the operating system. Bash has the ability</p>

			<p>to run an entire script of commands, known as a "Bash Shell script" or "Shell script".</p> <p>Familiarity with GNU/Linux command lines, and familiarity with basic programming concepts is a <b>pre-requisite</b> for learning <b>BASH</b>. Polytechnic/UG/PG computer hardware students and system administrators will greatly benefit by learning to automate common tasks using BASH.</p>
8	<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>
9	<b>Blender</b>	Certificate	<p>Open source equivalent to Maya and 3DMax. Useful to create 3D Animation for Architecture &amp; Animation students.</p> <p>Can be used by UG/PG Civil Engineering students, also.</p>
10	<b>C and C++</b>	Certificate	<p>Powerful features, simple syntax, and portability make <b>C</b> a preferred language 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>
11	<b>Advanced C</b>	Training only, No certificates	<p>For <b>Advanced C</b> series, learner should necessarily go through <b>C</b> and <b>C++</b> series beforehand.</p> <p>Useful for High School and UG/PG CSE/CS/IT students and anyone who wishes to learning advanced programming.</p>
12	<b>Advanced C++</b>	Certificate	<p>For <b>Advanced C++</b> series, learner should necessarily go through <b>C</b> and <b>C++</b> series beforehand.</p> <p>Useful for UG/PG CSE/CS/IT students and anyone who wishes to learning advanced programming.</p>
13	<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>
14	<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</p>

			laboratory. Useful for Chemistry students from 9th standard onwards.
15	<b>Drupal</b>	Certificate	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.  Useful for web developers, website administrators, and UG/PG CSE/IT/CS students who wish to learn website management.
16	<b>DWSIM</b>	Certificate	DWSIM is an open-source CAPE-OPEN compliant chemical process simulator. It allows us to conduct experiments and analyze data using advanced models and operations.  Useful for UG/PG Chemical Engineering students to run the simulations and get a better understanding on a phenomenon.
17	<b>eSim</b>	Certificate	eSim (previously known as OScad / FreeEDA) is an open source EDA tool for circuit design, simulation, analysis and PCB design. It is an integrated tool built using open source software such as KiCad ( <a href="http://www.kicad-pcb.org">http://www.kicad-pcb.org</a> ) and Ngspice ( <a href="http://ngspice.sourceforge.net/">http://ngspice.sourceforge.net/</a> ).  Useful for UG/PG Electrical Engg/Electronics students.
18	<b>Expeyes</b>	Certificate	ExpEYES stands for Experiments for Young Engineers and Scientists. It is used to perform basic Physics and Electronics experiments.  ExpEYES junior can be used from secondary to graduate level and also in some engineering branches.
19	<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.  Anyone who wishes to learn web browsing.
20	<b>FrontAccounting-2.4.7</b>	Certificate	Free, open source business accounting software (having features similar to Tally).  Useful for UG/PG Commerce students.
21	<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.  This application is useful for school students (9th standard

			and above) as well as school teachers. <b>Works only on Linux</b>
22	<b>GeoGebra 5.04</b>	Certificate	Interactive Geometry, Algebra and Calculus application. Very useful to teach and learn abstract geometry concepts.  Useful for school students (7th standard and above) as well as school teachers.
23	<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.  Useful for everyone who wish to learn to use a text editor in Linux. <b>Works only on Linux</b>
24	<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 for user interface elements. Useful for all graphic related work. Open source equivalent of <b>Photoshop</b> .  Useful for High School and UG/PG students who wish to learn photoediting and create graphics.
25	<b>GIT</b>	Certificate	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.  Useful for UG/PG CSE/IT/CS students, working professionals
26	<b>HTML</b>	Certificate	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.  Useful for High School and UG/PG students, working professionals - Multi-disciplinary
27	<b>Inkscape</b>	Certificate	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> .  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.
28	<b>Introduction to Computers</b>	Certificate	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.

			Useful for first-time computer users of any age group.
29	<b>Java and Netbeans</b>	(Java) Certificate  (Netbeans) Test In Progress	<p>Learn to use <b>Java</b></p> <ul style="list-style-type: none"> <li>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.</li> </ul> <p>Learn to use <b>Netbeans IDE</b></p> <ul style="list-style-type: none"> <li><b>NetBeans IDE</b> 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)</li> <li>With <b>Netbeans IDE</b>, one can quickly and easily develop desktop, mobile and web applications with <b>Java, HTML5, PHP, C/C++</b> and more.</li> </ul> <p>Useful for UG/PG CSE/IT/CS students We recommend that <b>Java</b> series be followed with <b>Netbeans</b> series.</p>
30	<b>Java Business Application</b>	Certificate	<p>Learn how to create a business application from scratch.</p> <p>For <b>Java Business Application</b> series, learner should necessarily go through <b>Java</b> and <b>Netbeans</b> series beforehand.</p> <p>Useful for UG/PG CSE/IT/CS students and working professionals.</p>
31	<b>Joomla</b>	Certificate	<p>Learn how to a Content Management System for building websites, webpages, etc.</p> <p>Useful for web developers, website administrators, and UG/PG CSE/IT/CS students who wish to learn website management.</p>
32	<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> <p>This application is useful for school students (9th standard upto Post Graduation level) as well as school teachers.</p>
33	<b>Koha Library Management System</b>	Training only, No	Learn how to create a library, a librarian, add books, journals, and other library items, Marc framework, order a

		certificates	<p>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.</p> <p>Koha is useful for Library Science students and Library Staff who wish to create a Koha library for their institute.</p>
34	<b>KTurtle</b>	Certificate	<p>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.</p> <p><b>Recommended for all who would like to learn programming logic.</b></p> <p>Useful for school students (7th standard and above)</p>
35	<b>LaTeX &amp; XFig</b>	(LaTeX) Certificate  (XFig) Certificate	<p><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.</p> <p><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.</p> <p>Useful for UG/PG students, faculty and research scholars.</p>
36	<b>LibreOffice Suite</b>	Certificate	<p>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.</p> <p>Useful for school students (7th standard and above), anyone who wishes to learn to use an OFFICE suite.</p>
37	<b>Linux &amp; Ubuntu BOSS Linux</b>	Certificate	<p>Free operating system, almost neutral to virus attacks and no hassles for licensing issues.</p> <p>Polytechnic/UG/PG computer hardware students and system administrators will greatly benefit by learning to use the Linux OS.</p>
38	<b>Linux AWK</b>	Certificate	<p>Linux AWK is a language for processing text files. AWK is typically used as a data extraction and reporting tool. It is a standard feature of most Unix-like operating systems.</p> <p>Polytechnic/UG/PG computer hardware students and system administrators can learn how to use the wide variety of AWK commands of Linux, to handle files, directories, processes etc.</p>
39	<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.  <b>Not useful for students</b>  <a href="#">Click here Instruction Sheet for Moodle LMS</a></p>
40	OpenFOAM	Certificate	<p>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 (Bhabha Atomic Research Center).</p> <p>Useful for Mechanical, Civil, Chemical Engineering students in 3rd and 4th year.  <b>Works only on Linux</b></p>
41	OpenModelica	Certificate	<p>OpenModelica is an open source modelling and simulation environment intended for industrial and academic usage. It is an object oriented declarative multi domain modelling language for complex systems.</p> <p>Useful for Chemical Engg students <a href="#">to learn how to do energy balance</a></p>
42	Perl	Certificate	<p>Practical Extraction and Reporting Language commonly known as PERL is a high level, general purpose and dynamic programming language. PERL has been used in</p>

			<p>graphics, web and network programming etc and you can find it's footprints in finance and bioinformatics domain, too.</p> <p>Useful for UG/PG CSE/IT/CS students to learn programming of business applications.</p>
43	<b>PHP &amp; MySQL</b>	Certificate	<p>Package for developing interactive websites and establishing back-end connectivity with a database - Famous websites using PHP include Facebook, Google, and Wikipedia.</p> <p>Useful for UG/PG CSE/IT/CS students</p>
44	<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>
45	<b>QCAD</b>	Certificate	<p><b>QCAD</b> is a free, open source application for computer aided drafting (CAD) in two dimensions (2D).</p> <p>Learn to create technical drawings such as plans for buildings, interiors, mechanical parts or schematics and diagrams using <b>QCAD</b>.</p> <p>Useful for UG/PG architecture students</p>
46	<b>QGIS</b>	Certificate	<p>QGIS (previously known as Quantum GIS) is a free and open-source cross-platform, desktop geographic information system (GIS) application that supports viewing, editing, and analysis of geospatial data. QGIS functions as geographic information system (GIS) software, allowing users to analyse and edit spatial information, in addition to composing and exporting graphical maps.</p> <p>Useful for Geography/Earth Science students to learn GIS, Mapping, and Spatial Analysis and Geographic Information.</p>
47	<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 learn statistics, big data, data science</p>
48	<b>RDBMS</b>	Certificate	<p>RDBMS stands for Relational Database Management System. RDBMS is the basis for SQL, and for all modern database systems like MS SQL Server, IBM DB2, Oracle, MySQL, PostgreSQL and Microsoft Access. PostgreSQL is a powerful, open source relational database system. It runs on all major operating systems, including Linux, Windows</p>

			and Mac OS. It supports most SQL data types, foreign keys, joins, views, triggers and stored procedures. It has programming interfaces for C/C++, Java, Perl, Python, Ruby etc.  Useful for UG/PG CSE/IT/CS students to learn industry database management
49	<b>Ruby</b>	Certificate	Dynamic, open source, general-purpose, interpreted, true object-oriented programming language. It is a server-side scripting language similar to Python and PERL. Large programs written in Ruby are easily maintainable. It can be easily connected to DB2, MySQL, Oracle, and Sybase.  Useful for UG/PG CSE/IT/CS students to learn industry level programming
50	<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.
51	<b>Single Board Heater System</b>	Training only, No certificates	A single-board heater system is a low cost, open source, lab-in-a-box setup. It consists of a heater assembly, fan, temperature sensor, ATmega16 micro-controller and associated circuitry.  The application of this device is in the Control Systems area of Engineering. All Undergraduate level experiments and most Post graduate level control experiments can be performed on the SBHS device.
52	<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.  Useful for High School and UG/PG students who wish to learn animation.
53	<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.  Useful for UG/PG Chemistry students.
	<b>Typing Software</b>		
54	<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.
55	<b>TuxTyping</b>	Training only, No certificates	Typing application especially for children Start typing, Practice lessons, Play a typing game, Set a language for typing
	<b>Utility software/application</b>		

56	<b>K3B</b>	Not for Training	Learn to burn audio/video/data CDs/DVDs using <b>K3B</b>
57	<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.
58	<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.