

K. J. Somaiya Institute of Engineering and Information Technology, Sion, Mumbai



NAAC Accredited Institute with 'A' Grade NBA Accredited 3 Programs

(Computer Engineering, Electronics & Telecommunication Engineering and Electronics Engineering) Permanently Affiliated to University of Mumbai Best College Award by University of Mumbai for A.Y. 2018-19, Urban Region UGC Recognized Institute under Section 2(f) and 12(B) of the UGC Act, 1956

SPOKEN TUTORIAL SOFTWARE

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

No.	Software	Certificate Criteria	Application
1	Basic IT Skills		Learn how to use
	package		• 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.
2	Applications of	Certificate	Applications of GeoGebra Interactive Geometry, Algebra and Calculus
	GeoGebra		application for UG/PG students (12th standard and above) as well as
			Research Scholars.
3	Android app	Training	Google has announced Kotlin as an official language on Android .
	using Kotlin	only,	Kotlin, is a statically typed programming language for the JVM, Android
		No	and the browser. It is expressive to make your code more readable and
		certificates	understandable.
			Useful for anyone who wants to learn how to make an Android app
4	Arduino	Certificate	Arduino 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.
			Useful for High School and UG/PG Electronics students, hardware
			professional.
5	Ascend	Training	ASCEND is a free, open source, mathematical modeling system.
		only,	Its main uses have been in the field of chemical process modeling ,
		No	with its novel modeling language conventions and powerful solver.
		certificates	Useful for UG/PG Chemical Engg. and Chemistry students.
6	Avogadro	Certificate	Avogadro 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.
			Useful for UG/PG Chemistry and Bioinformatics students.

	BASH	Certificate	 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 pre-requisite for learning BASH. Polytechnic/UG/PG computer hardware students and system administrators will greatly benefit by learning to automate common tasks using BASH.
8	Biopython	Certificate	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. Useful for UG/PG Bioinformatics students.
9	Blender	Certificate	Open source equivalent to Maya and 3DMax. Useful to create 3D Animation for Architecture & Animation students. Can be used by UG/PG Civil Engineering students, also.
10	C and C++	Certificate	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. Useful for High School and UG/PG CSE/CS/IT students and anyone who wishes to learning basic programming.
11	Advanced C	Training only, No certificates	For Advanced C series, learner should necessarily go through C and C++ series beforehand. Useful for High School and UG/PG CSE/CS/IT students and anyone who wishes to learn advanced programming.
12	Advanced C++	Certificate	For Advanced C++ series, learner should necessarily go through C and C++ series beforehand. Useful for UG/PG CSE/CS/IT students and anyone who wishes to learning advanced programming.
13	CellDesigner	Certificate	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. Useful for UG/PG Bio-Chemistry students.
14	ChemCollective Virtual Labs	Certificate	ChemCollective Virtual Labs 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. Useful for Chemistry students from 9th standard onwards.

15	Drupal	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	DWSIM	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	eSim	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 (http://www.kicad- pcb.org) and Ngspice (http://ngspice.sourceforge.net/). Useful for UG/PG Electrical Engg./Electronics students.
18	Expeyes	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	Firefox	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	FrontAccounting- 2.4.7	Certificate	Free, open source business accounting software (having features similar to Tally). Useful for UG/PG Commerce students.
21	GChemPaint	Certificate	 GChemPaint 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. Works only on Linux
22	GeoGebra 5.04	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	gedit Text Editor	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. Works only on Linux

24	GIMP	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 Photoshop . Useful for High School and UG/PG students who wish to learn photo editing and create graphics.
25	GIT	Certificate	Git is distributed version control software. It is 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	HTML	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	Inkscape	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 CorelDraw and Illustrator . 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	Introduction to Computers	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	Java and Netbeans	(Java) Certificate (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.
		Test In Progress	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.
			Useful for UG/PG CSE/IT/CS students We recommend that Java series be followed with Netbeans series.

30	Java Business	Certificate	Learn how to create a business application from scratch.
	Application		For Java Business Application series, learner should necessarily go
			through Java and Netbeans series beforehand.
			Useful for UG/PG CSE/IT/CS students and working professionals.
31	Joomla	Certificate	Learn how to a Content Management System for building websites,
			webpages, etc.
			Useful for web developers, website administrators, and UG/PG CSE/IT/CS
			students who wish to learn website management.
32	Jmol Application	Certificate	Learn how to create 3D chemical, crystal and biomolecules structures.
			Very useful to teach and learn abstract chemistry concepts.
			This application is useful for school students (9th standard up to Post
			Graduation level) as well as school teachers.
33	Koha Library	Training	Learn how to create a library, a librarian, add books, journals, and other
	Management System	only,	library items, Marc framework, order a book, cataloging, circulation, add
		No	subscription, serial subscription, receive serials, OPAC search, access
		certificates	library on web, cataloging using Z39.50, manage budgets and funds,
			convert Excel data to MARC, import MARC in Koha.
			Koha is useful for Library Science students and Library Staff who wish to
			create a Koha library for their institute.
34	KTurtle	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.
			Recommended for all who would like to learn programming logic.
			Useful for school students (7th standard and above)
35	LaTeX & XFig	(LaTeX)	LaTeX is a typesetting software for preparing reports, letters and
		Certificate	presentations - specially useful for persons engaged in writing/
			publishing documents from science/ arts/ commerce fields.
		(XFig)	
		Certificate	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.
			Useful for UG/PG students, faculty and research scholars.
36	LibreOffice Suite	Certificate	Trains in basic computer usage skills like Word processing, Spreadsheet,
			Presentation using the LibreOffice components Writer , Calc and Impress .
			One can also learn other useful components like Draw , Math and Base in
			this series.
			Useful for school students (7th standard and above), anyone who wishes
			to learn to use an OFFICE suite.

37	Linux & Ubuntu	Certificate	Free operating system, almost neutral to virus attacks and no hassles for
	BOSS Linux		licensing issues. Polytechnic/UG/PG computer hardware students and system administrators will greatly benefit by learning to use the Linux OS.
38	Linux AWK	Certificate	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. 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.
	Moodle Learning Management System	Certificate	 Moodle LMS is one of the most popular LMS used globally by educational institutes. This Moodle series is divided into 2 parts - one for Moodle site administrators and another for teachers. Moodle site Administrators will install Moodle on the server create course categories as per institute guidelines and manage courses and user accounts for multiple courses Teachers will learn to- upload and edit content for their course. create assignments and quizzes to assess the students' progress enroll students to their course and communicate with them. Useful for system administrators, site administrators, trainers and faculty. Not useful for students
40	OpenFOAM	Certificate	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). Useful for Mechanical, Civil, Chemical Engineering students in 3rd and 4th year. Works only on Linux
41	OpenModelica	Certificate	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. Useful for Chemical Engg. students to learn how to do energy balance

	Perl	Certificate	Practical Extraction and Reporting Language commonly known as PERL is a high level, general purpose and dynamic programming language. PERL has been used in graphics; web and network programming etc. and you can find it's footprints in finance and bioinformatics domain, too. Useful for UG/PG CSE/IT/CS students to learn programming of business applications.
43	PHP & MySQL	Certificate	Package for developing interactive websites and establishing back-end connectivity with a database - Famous websites using PHP include Facebook, Google, and Wikipedia. Useful for UG/PG CSE/IT/CS students
44	Python 3.4.3	Certificate	Numerical computational software for Science and Engineering Education - used in 3D animation and Gaming industry, Artificial Intelligence, YouTube, NASA, CERN, Yahoo and so on. Useful for UG/PG CSE/IT/CS students and CBSE high school students
45	QCAD	Certificate	QCAD is a free, open source application for computer aided drafting (CAD) in two dimensions (2D). Learn to create technical drawings such as plans for buildings, interiors, mechanical parts or schematics and diagrams using QCAD . Useful for UG/PG architecture students
46	QGIS	Certificate	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. Useful for Geography/Earth Science students to learn GIS, Mapping, and Spatial Analysis and Geographic Information.
47	R	Certificate	R is the most preferred open-source language for analytics and data science. R offers a large variety of statistical (linear and nonlinear modeling, classical statistical tests, time-series analysis, classification, clustering,) and graphical techniques, and is highly extensible. Useful for UG/PG CSE/IT/CS students to learn statistics, big data, data science

48	RDBMS	Certificate	RDBMS stands for Relational Database Management System. RDBMS is the
		Gertineate	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 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	Ruby	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	Scilab	Certificate	Mathematical and scientific calculation software, open source substitute
			for MATLAB, very useful for all science and engineering students, in
			academics particularly.
51	Single Board Heater	Certificate	A single-board heater system is a low cost, open source, lab-in-a-box
	System		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.
F 0	Comfin 2D contract	Not for	
52	Synfig 2D animation	Not for	2D animation software designed as a powerful industrial-strength
		Training	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	UCSF Chimera	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.
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Typing Software

54	KTouch	Training	Typing tutor - teaches how to type using an online interactive keyboard.
		only,	Learn typing at your own pace. Gradually increase your typing speed and
		No	along with it, your accuracy.
		certificates	
55	TuxTyping	Training	Typing application especially for children
		only,	Start typing, Practice lessons, Play a typing game, Set a language for typing
		No	
		certificates	

Utility software/application

56	КЗВ	Not for	Learn to burn audio/video/data CDs/DVDs using K3B
		Training	
57	Filezilla	Not for	Learn to configure and use Filezilla, a free file transfer protocol
		Training	application that's easy to set-up and customize.
58	Thunderbird	Not for	Learn to configure and use Thunderbird, a free email application that's
		Training	easy to set-up and customize.

Upcoming Spoken Tutorial series are <mark>CSS, jquery, javascript, Python Django, Python Flask, Linux for Sys-</mark> Ads, XMGrace, Freeplane, Marble, Apps on Physics, GCompris, XCos Toolbox, Gnuplot