

MIT

Open Source Academy NewsLetter

April 1, 2016

AICTE : List of open
source software

Big Data Lab
in MIT-T

Red Hat Certifications

“The Red Hat certification program reinforces
fundamentals and builds proficiency.”

Carl Thompson, RHCA
2015 Red Hat Certified Professional of the Year
Principal Architect, Rackspace



CONGRATULATIONS to Mohit Joshi for placement in Tata Consultancy Services (TCS) , India’s #1 IT company. Mohit completed the “HDP - Operations” training program in MIT Big Data Academy under the guidance of Prof Prashant Band. This training helped him a lot in TCS selection process, as he was only candidate to talk on Big Data , Hadoop , Cluster , Ambari , Pig & Hive with practical confidence. He has been practicing these ecosystem tools of Big Data in MIT Lab since October’ 2015. He says “ Hadoop skill was unique and distinct feature for my campus placement. Thanks MIT for facilitating the latest infrastructure in big data learning.”.

AICTE published list of Free & Open Source software



All India Council for Technical Education (AICTE) has published the list of free and open source software so that engineering student can learn the and practice engineering &

technology using open source software and tools in laboratory and in classroom. Following are the details:

Commercial Software	Similar Open source	Download Link	Used where
MATLAB	Scilab	http://www.scilab.org/products/scilab/download	Engineering (Electrical, Mechanical, Civil, Electronics, Embedded systems, Chemical), Science (Physics, Mathematics)
Mathematica	Maxima	http://maxima.sourceforge.net/download.html	Mathematics, Engineering
Cadence pSpice	ngspice	http://ngspice.sourceforge.net/download.html	Engineering (Electrical, Electronics, Embedded systems)
Microsoft Office	Open office	http://download.openoffice.org/	All branches
Microsoft Office	LaTeX	http://www.latex-project.org/ftp.html	All branches
Mathematica /Maple	Sage	http://www.sagemath.org/download.html	Precise arithmetic, algebra, symbolic computation
Microsoft Windows	GNU/Linux	http://www.gnu.org/software/software.html	All branches
Turbo C	GCC	http://gcc.gnu.org/releases.html	Engineering (Introductory Computing – all branches)
Pro/E	BRL-CAD	http://brlcad.org/d/download	Engineering (CAD)

MASM	NASM, FASM	http://www.nasm.us/pub/nasm/releasebuilds http://flatassembler.net/download.php	Engineering (Electronics, Computer Science)
MS OFFICE Plotting tools	Xmgrace, XFIG, GNUPLOT	http://sourceforge.net/projects/graceplot/ http://xfig.org/art17.html http://www.gnuplot.info/download.html	Drawing the figures, plots, flow diagrams
Code composer Studio, IAR Workbench	GNU Binutils	http://ftp.gnu.org/gnu/binutils/	Assembler, Compilers for micro controllers and DSP Processors (MSP, VC33 etc)
VxWORKS	RTLlinux, RTAI	http://www.faqs.org/docs/Linux-HOWTO/RTLlinux-HOWTO.html https://www.rtai.org/	Real-time operating System for Desktop and Embedded Systems
KEIL 8051	SDCC	http://sdcc.sourceforge.net/index.php#Download	GCC SDCC compiler for 8051 controllers
synopsis-Co smosSE, Mentor-Icstu dio, Cadence-Vir tuoso	Xcircuit	http://opencircuitdesign.com/xcircuit/download.html	schematic design
Mentor-ICst ation, Cadence-Vir tuoso	Magic	http://opencircuitdesign.com/magic/download.html	Used for chip Layout design
Modelsim	ghdl, freehdl	http://ghdl.free.fr/download.html http://freehdl.seul.org/	VHDL compiler
Matlab	Octave	http://www.gnu.org/software/octave/download.html	Numerical Computation
AutoCad	KiCad, FreeCad	http://kicad.sourceforge.net/wiki/Downloads http://sourceforge.net/projects/free-cad/	CAD system

S-Plus	R	http://cran.r-project.org/bin/	Statistics
Operating System	GNU/LINU X	http://www.bosslinux.in/	Operating System

Furthermore, Ministry of Human Resource Development , Govt of India has developed the online tool “Spoken Tutorial” for learning open source software at free of costs. Kindly visit :

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



Additionally , AICTE encouraged the open source software utilisation , in its “Approval Process Handbook” (pp 129 <http://www.aicte-india.org/approvalprocess14.php>)



Cloudera’s Big Data training to the First batch , MIT-T, launched by Munish Sharma, Hon’ble Director General, MIT Group, Aurangabad. The training program has been designed by Cloudera Inc. USA. It includes Hadoop HDFS File system basics, Map-Reduce programs, Data analysis using Pig, Hive and Impala. Interested student can contact Prof Prashant Khosre, Coordinator, MIT-Cloudera Academic Program, Big Data Lab, MIT-T.

