



Bhakta Kavi Narsinh Mehta University

Govt. Polytechnic College Campus, Bhakta Kavi Narsinh Mehta University Road,
Khadiya, Junagadh-362263(Gujarat)Ph.(O) : 0285-2681400
Website: <http://www.bknmu.edu.in>Email. : phdbknmu@gmail.com

Circular:

Sub: Invitation for Online Course registration developed by ST-IITB
Ref No.: A letter from AIU, New Delhi bearing No. AIU/RES/2020 dated 23rd September, 2020

As per the instruction of Hon.Vice Chancellor, all the teachers of University, and teachers of the affiliated colleges and students of Bhakta Kavi Narsinh Mehta University are to inform that Spoken Tutorial (ST), IIT-Bombay has developed online courses for the faculty members and students of the universities and institutes/colleges. The courses offered are Open Source Software of which the details are given in the attached brochure. These courses aim to provide practical and hands on training to the faculty members and the students. The registration fee for faculty member is Rs.590 per course and for students the fee is Rs.236 per course (including GST charge). Faculty Members can participate and acquire the skills and inservice training requirements, while students too can complete the lab course remotely using ST, IIT Bombay Audio Video "e- tutor", enhance their skillsets and perform better in exam. Some of the courses are *Linux, C/C++, Java, Python, HTML, Moodle LMS, R Programming, Scilab, LaTeX, Python, Android App with Kotlin* and many more.

The interested faculty members and students should register for their choice of course by visiting below link before 9th October 2020: [Course Registration Link for FDP and SDP](#)

I request all the Head of the Departments/PG Centres and principals of the colleges to circulate this invitation to all their students and faculty members to register themselves in these courses. You can get more information about these courses on Spoken Tutorial Website <http://spoken-tutorial.org>. For any query, you can contact Ms. Trupti More, Sr. Project Manager, Spoken Tutorial, IIT, Bombay or Email: truptismore@yahoo.com or you can contact her on 9820096122. Anticipating more participation. Thanks.

Some other useful links:

- https://spoken-tutorial.org/training/list_events/ongoing/
- [Register for FDP on Moodle LMS](#)
- [Register for FDP on Android App using Kotlin](#)
- [Register for FDP on Python](#)
- [Register for FDP on Drupal](#)
- [Register for FDP on PHP & MySQL](#)

Yours faithfully,

01/10/2020

Officer on Special Duty
(Academic)

Ref.No.:BKNMU/Academic/2355/2020-21
Bhakta Kavi Narsinh Mehta University
BKNM University Road, Khadiya
Junagadh-362263
Date: 01/10/2020

Copy forwarded to:

- P.S.to Hon.Vice Chancellor, Bhakta Kavi Narsinh Mehta University, Junagadh

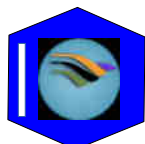
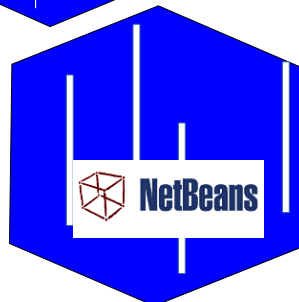
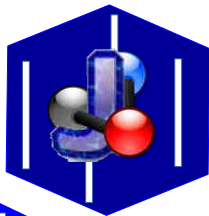
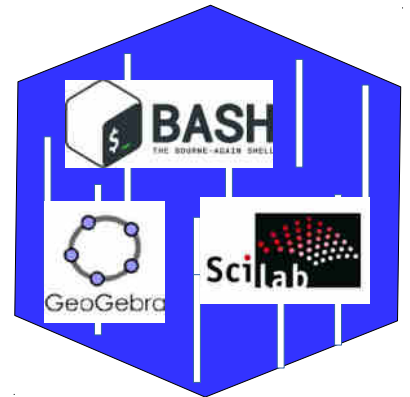
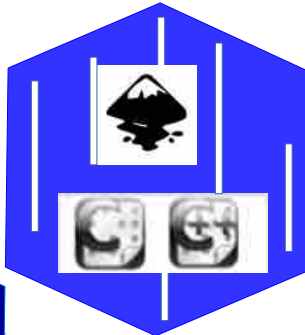


Spoken Tutorial

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



IIT Bombay



E-Brochure

Arduino QCad
 Advanced DWSIM Drupal
 Python C++ Ruby Scilab eSim
 Ngspace Blender HTML PERL Tux
 Linux AWK Koha Typing
 GIMP Libreoffice
 Linux OpenFOAM Latex Bio
 Python
 InKspace BASH C/C++ Java
 GIT Jmol
 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-to-day 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
Ngspice	It is a program used in integrated circuit and board-level design to check the integrity of circuit designs and to predict circuit behavior.
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.

Contact

Shyama Iyer – 9702545816 - shyama.stiitb@gmail.com

Diana Low – 9833188090 - dianaly3129@gmail.com

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<http://spoken-tutorial.org>