GUJARAT TECHNOLOGICAL UNIVERSITY
Open Source Technologies Club (OSTC)

Spoken Tutorial Workshop Report

For Faculty Members-
Civil, Computer Science, Electronics & Communication,
Electrical, Mechanical Engineering Departments

Organized under

GTU Open Source Technologies Club (GTU OSTC)

On

11th July 2014

At

Gujarat Technological University wants to encourage the use of Open-source technologies in academic work as well as for office-work. Spoken Tutorial Project-IIT Bombay & GTU has taken Open Source Technology Club initiative of **Faculty Development Program** from this year. To take the advantage of this opportunity we had conducted various FDP's under **Open Source Technologies Club** (OSTC) at our institute.
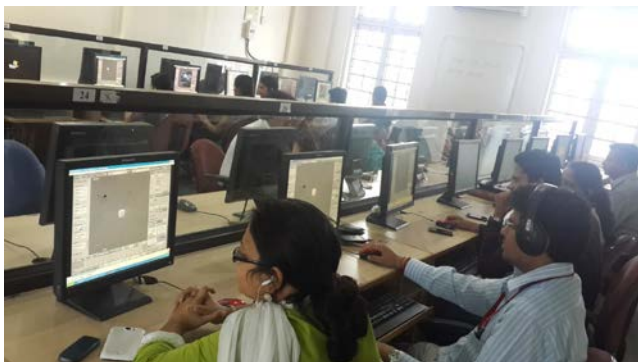
The objective of Spoken Tutorials is to learn Free and Open Source Software (FOSS) and pass certification exams conducted online by IIT Bombay. It helps the faculties to learn complicated topics through simple tutorials and also proves cost effective; as faculties can avail this facility free of cost. The faculties need a PC/Laptop and a headphone. This method is highly conducive to self-learning.

Workshop on **Blender** was organized in two computer labs by the BIT Team OSTC. **Eighteen Faculties of Civil Engineering department** have participated in that workshop. This was coordinated by **Prof.Mayur Patel** & **Prof.Dhiren Panchal** from Civil Dept. under the guidance of their **Head of the Dept, Prof.Nipa Desai.**

Civil Dept Workshop Details:

Workshop Code	WC-10724
FOSS Category	Blender
Academic Center code	GUJ-00051
Date	11/07/2014
Time	10:00 AM to 12:00 PM

Blender is a family of programs designed to Open Source equivalent to Maya and 3DMax. It is useful to create 3D Animations for Architectural and Civil Engineering. The tutorials were taught in a manner to make the participants understand the commands used in 3D Animation for Civil Engineering faculties. Tutorial was in the form of audio-video tool and faculties got hands on experience of using the same simultaneously. It also gave an idea of how to use Blender in the windows operating system with the installation.

WORKSHOP SESSION OF BLENDER ON 11TH JULY, 2014

Workshop on **Python** was organized in Computer labs by the **Computer Science & Engineering Department,** BIT Team OSTC to **26 Faculties** of CSE departments. This was coordinated by **Prof.Maikalraj Rana** & **Prof.Amit Chauhan** from Computer Science Dept. under the guidance of their **Head of the Dept, Prof.Saurabh Shah.**

Computer Science Dept. Workshop Details:

Workshop Code	WC-10729
FOSS Category	Python
Academic Center code	GUJ-00051
Date	11/07/2014
Time	12:30PM-02:30 PM

Python is an interpreter, object-oriented, high-level programming language with dynamic semantics. Its high-level built in data structures, combined with dynamic typing and dynamic binding, make it very attractive for Rapid Application Development, as well as for use as a scripting or glue language to connect existing components together.

WORKSHOP SESSION OF PYTHON ON 11TH JULY, 2014

Workshop on **Scilab** was organized in computer labs on 11th July 2014 for **23 faculties of Electronics & Communication Engg ,10 Faculty members of Electrical Engineering department** have participated in that workshop.

EC and Electrical Dept. Workshop Details:

Workshop Codes	WC-10721 & WC-10726
FOSS Category Academic Center code	Scilab GUJ-00051
Date	11/07/2014
Time	10:00 AM to 12:00 PM

WORKSHOP SESSION OF SCILAB-EC Dept. ON 11TH JULY, 2014

WORKSHOP SESSION OF SCILAB-EE Dept. ON 11TH JULY, 2014

Scilab is a programming language associated with a rich collection of numerical algorithms covering many aspects of scientific computing problems. Scilab users can develop their own modules so that they can solve their particular problems. Scilab also interfaces LabVIEW, a platform and development environment for a visual programming language from National Instruments.

This was coordinated by **Prof. Swarup Pal**, **Prof. Jaimin Patel**, **Prof. Pavan Ramrakhyani** & **Prof. Ketan Damor** from **Electronics & Communication, Electrical Engg Depts** under the guidance of **Head of the Departments,Dr.Jaymin Bhalani,EC Dept, Prof. Saurabh P Shah,2nd shift EC Dept & Dr.Dipesh Patel,EE Dept.**

The workshop on the Spoken Tutorial Project was conducted for learning a'OpenFOAM' via an easy video tool-spoken tutorial on 11th July, 2014 by the Mechanical Engineering Department. In this two hour workshop, it was an opportunity for the faculty members to learn the OpenFOAM software and to get a certificate from IIT Bombay. The faculties learnt the powerful features of OpenFOAM, geometry making and flow problem simulations by this OpenFOAM software tool.

Mechanical Dept. Workshop Details:

Workshop Code	WC-10725
FOSS Category Academic Center code	OpenFOAM
	GUJ-00051
Date & Time	11/07/2014 (1:00 PM To 3:00 PM)

Workshop on **OpenFOAM** was organized in the CAD lab by the BIT Team OSTC to **23 faculty members of Mechanical engineering department.Prof. Mukund Pandya and Prof. Ratnesh Parmar** were coordinating the workshop under the guidance of the **Vice Principal, Dr.Pallavi Agarwal**

WORKSHOP SESSION OF OpenFOAM ON 11TH JULY, 2014

An **online test in LaTeX** was also conducted for faculties (2:00pm-3:00pm on July 11,2014) who attended the workshop of the same on December 27 ,2013.

We take this opportunity to thank our **Honorable Chairman Shri.Jagdish Patel, Honorable Vice Chairman Shri.Dhruv Patel & Campus Director Shri.Sudhir Patel** for their constant support and inspiration for conducting such programs for the faculties.