



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
ACADEMIC YEAR 2021-22 (EVEN)
WORKSHOP-SPOKEN TUTORIAL

OBJECTIVE OF SPOKEN TUTORIAL:

The main objective of this spoken tutorial is to promote IT literacy for education and improve the employment potential of learners in India, using FOSS (free and open source software). ICT is an important area that provides jobs to a large number of our students. Software creation, electronic design automation (IC design), numerical computing, and modeling and simulation are some of the ICT areas. This aim to pass on the knowledge of technology and free and open source software (FOSS) through the website to the millions in our country, who lack opportunities and/or access to learn any software.

Spoken tutorial is well known that seeing and hearing someone explain a process greatly improves understanding and help to learn and use open source software.

The Spoken Tutorial project is the initiative of the ‘Talk to a Teacher’ activity of the National Mission on Education through Information and Communication Technology (ICT), launched by the Ministry of Human Resources and Development, Government of India.

The use of spoken tutorials to popularize software development and its use will be coordinated through website <http://spoken-tutorial.org/>. (The Spoken Tutorial project is being developed by IIT Bombay for MHRD, Government of India). The project conducts software training workshops using spoken tutorials and give certificates to those who pass an online test.

One can access the website (<http://spoken-tutorial.org/>) to know the various facets of this program. It has been established as an effective instructional methodology. *Resource Centers* and *Nodal Centers* help sustain and spread this activity across India.

PROGRAM CONDUCTED:

Department of Electrical & Electronics Engineering conducted spoken tutorial workshop for the academic year 2021-22 even in physical mode (offline) at EEE smart class room.

COURSE DETAILS:

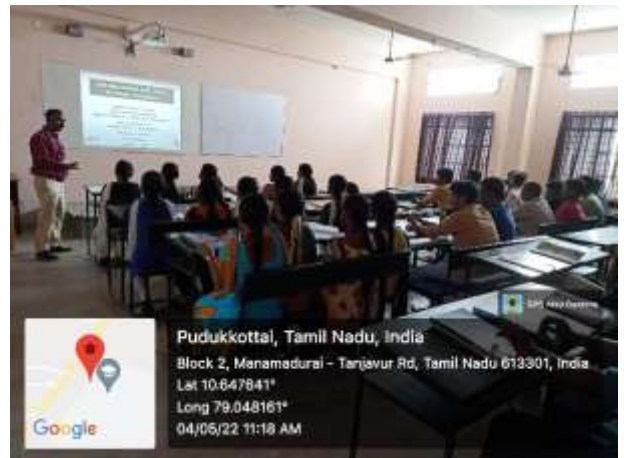
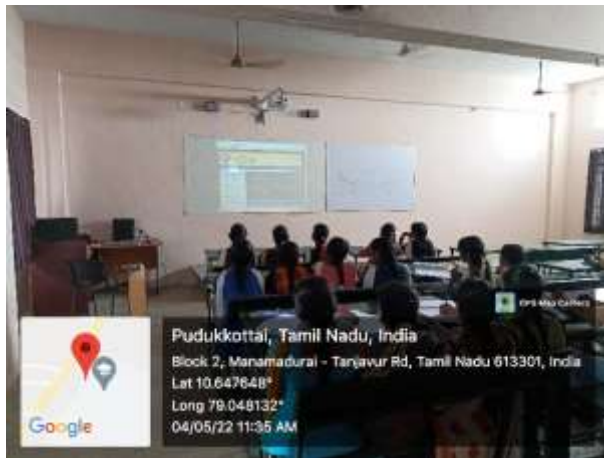
CLASS	COURSE NAME	DATE	BENEFICIARY
II-EEE	eSim	04.05.2022	41
III-EEE	eSim	04.05.2022	09
IV-EEE	GIMP	05.05.2022	10

COURSE DESCRIPTION:**eSim:**

- eSim 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 and Ngspice.
- eSim offers similar capabilities and ease of use as any equivalent proprietary software for schematic creation, simulation and PCB design, without having to pay a huge amount of money to procure licenses. It can serve as an alternative to commercially available/ licensed software tools like OrCAD, Xpedition and HSPICE.
- The Spoken Tutorial effort for eSim has being contributed by Usha Vishwanathan, Gloria Nandihal, Saurabh Bansode and Athul George from FOSSEE Project, IIT Bombay with domain reviews done by Gloria Nandihal and Athul George.

GIMP:

- GIMP can accomplish essential image editing tasks such as resizing, editing, and cropping photos, photo-montages combining multiple images, and converting between different image formats. GIMP can also be used to create basic animated images in the GIF format.
- It is freely available in versions tailored for most popular operating systems including Microsoft Windows, Apple Mac OS X and GNU/Linux.
- The Spoken Tutorial effort for GIMP series has been contributed by Hemant Waidande under the guidance of Praveen S and Nancy Varkey from IIT Bombay.
- Learners: High School and UG/PG students who wish to learn photoediting and create graphics.



Snapshot from II-EEE & III-EEE- eSim on 04.05.2022





Snapshot from IV-EEE - GIMP on 05.05.2022

FEEDBACK ANALYSIS:

SNo	Class	Excellent	Very Good	Good	Fair
1.	II EEE	19	21	1	-
2.	III EEE	7	2	-	-
3.	IV EEE	6	4	-	-

