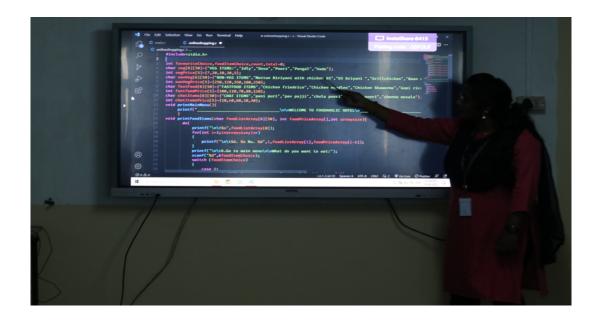
# Innovations by the Faculty in Teaching and Learning

## 1. Information and communication technology (ICT)

### i) Smart Class Room:

The Interactive Smart Board or Smart Interactive Whiteboard uses a high-definition LCD screen as the display and operation platform. It has functions such as writing, annotation, drawing, multimedia entertainment, and network conferences. It incorporates many technologies such as human-computer interaction, flat panel display, multimedia information processing, and network transmission. It is information the optimal solution for office, teaching, graphic interactive presentation in the modernized era.





### ii) NPTEL Video Lectures:

https://nptel.ac.in/

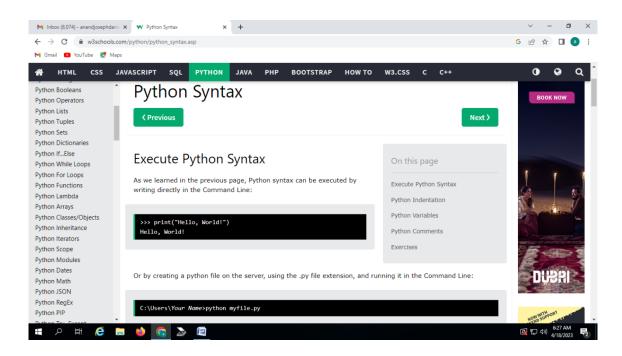
### iii) W3schools:

W3Schools is optimized for learning and training. Examples might be simplified to improve reading and learning. Tutorials, references, and examples are constantly reviewed to avoid errors.

#### **Website Link:**

https://www.w3schools.com

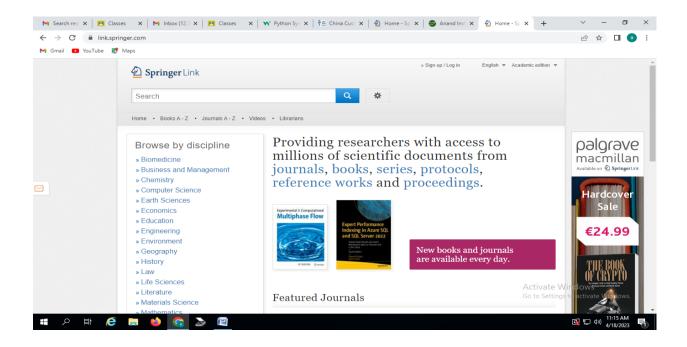
### **Sample Window Page:**



### iv) Web Based Learning online Journals and E-books:

In our department, students can use the online Journals for reading research papers and apply it in various type of project creation purpose also they can learn and improving their knowledge with different technology.

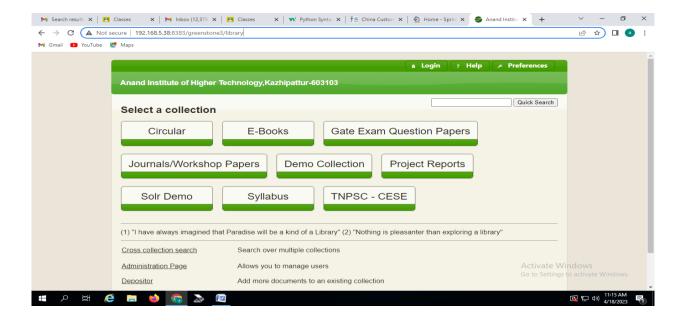
https://link.springer.com/



#### v) Digital Library:

In our department students can use the digital library for accessing the E-book, Syllabus, Project reports and model question papers through the college website. A digital library, also called an online library, an internet library, a digital repository, or a digital collection is an online database of digital objects that can include text, still images, audio, video, digital documents, or other digital media formats or a library accessible.

http://192.168.5.38:8383/greenstone3/library



# vi) National Digital Library:

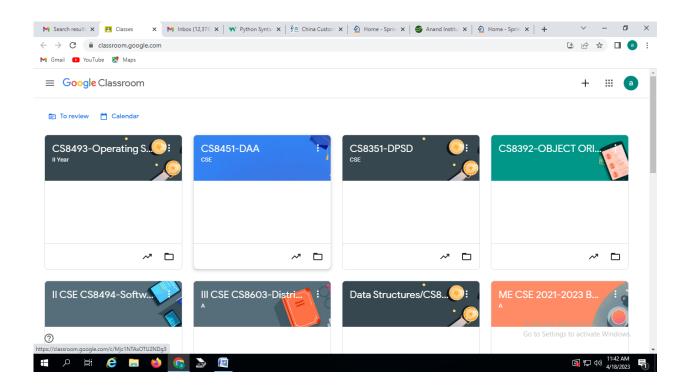
In our department, student and faculty members can access National Digital Library of India with membership account. Through this platform faculty can develop their knowledge in recent technologies. This knowledge can be shared to the students in innovative manner. This information helps the students to do innovative projects in various domains.

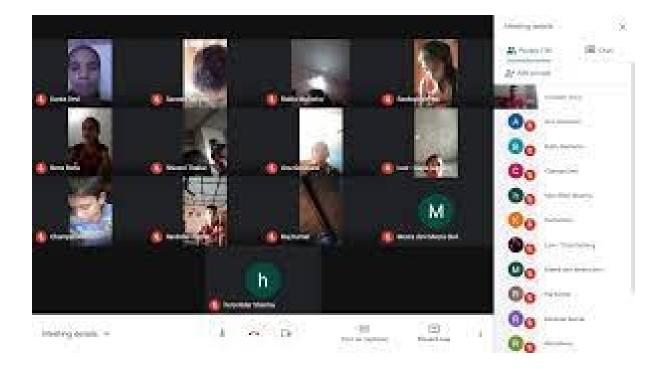


### vii)E-Books Download websites:

University of Pennsylvania	http://digital.library.upenn.edu/books
Project Gothenburg	http://www.gutenberg.org
Free e books	http://www.free-ebooks.net
Free Tech books	http://www.freetechbooks.com
Campus books	http://www.campusbooks.com
University of Virginia; e-book Library	http://etext.lib.virginia.edu/ebooks/ebooklist.html
NAP Open Book	http://www.nap.edu/index.html
Internet public Library	http://www.ipl.org/div/books
Direct Text book	http://www.directtextbook.com
e-books	http://e-books.org
e-books Palace	http://www.ebookpalace.com
<b>Electronic Library of Mathematics</b>	http://www.emis.de/journals/short_index.html

### 2. Online Classes Platform



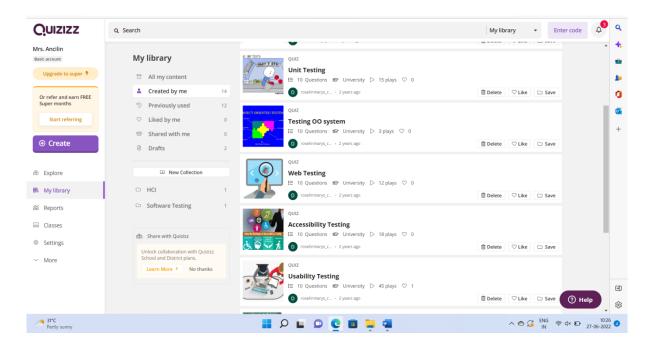


#### 3. Model Based Teaching:

#### INTERROGATE THROUGH QUIZIZZ.COM:

Quizizz is a tool in which specific and tangible item such as a template or software program, used in performing an activity to produce a student and staff interaction with the perfect result.

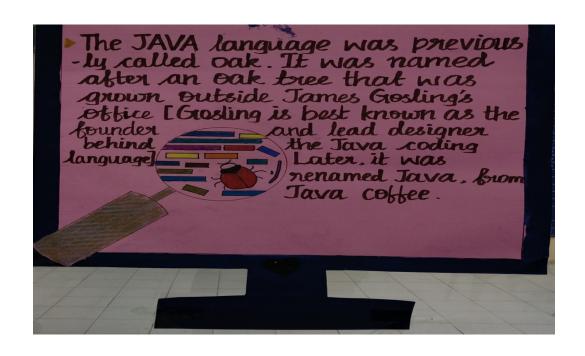
The participants test what they know by answering questions on one or more topics. It is used for teaching the students and testing them in Gamification. This can be a skill testing Challenge.

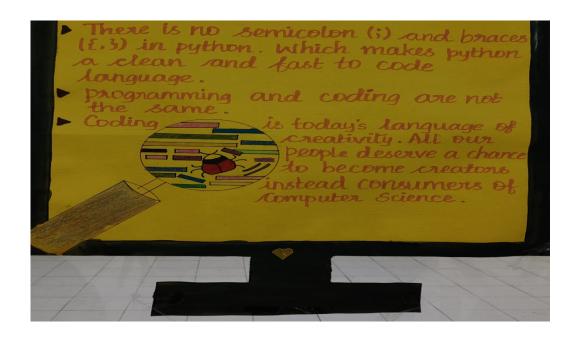


### **Working Models:**

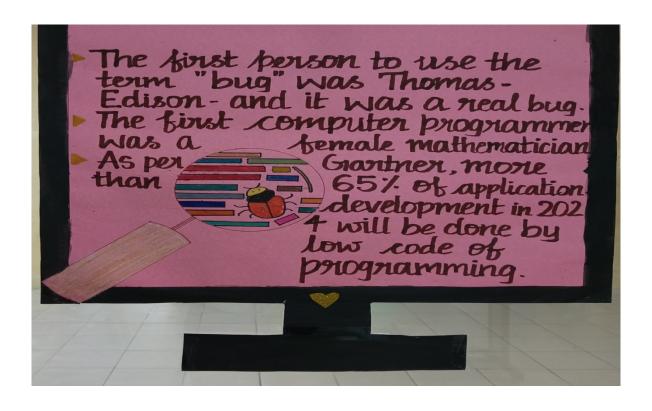
Working Models are a mentally visual way of linking theory with experiment, and they guide research by being simplified representations of an imagined reality that enable predictions to be developed and tested by experiment. The following are the simplified working model which are currently using by the students and faculty members.

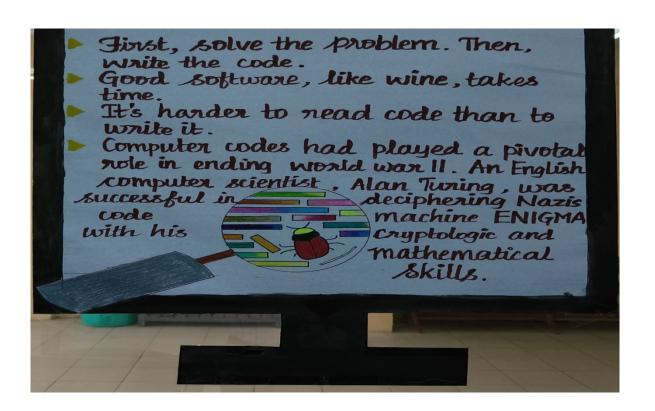
### Model 1:

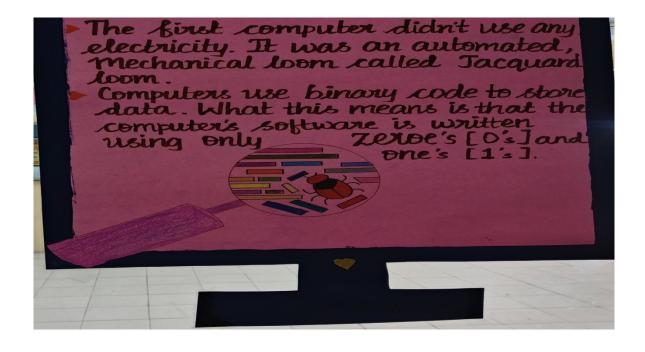






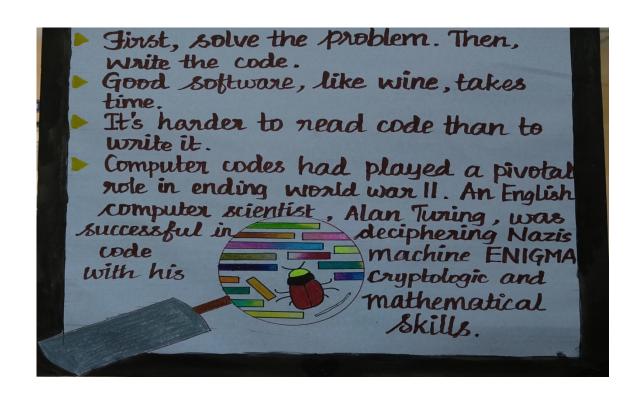






#### Model 2:







# 4. Instructional Materials:

### **Tutorial Video Uploaded in Youtube:**

The Tutorial video has taken by the faculty members and it has been uploaded to the youtube.com channel. The main aim is to deliver the subject topics using recent technologies with effective manner. So we identified the youtube.com channel for uploading the tutorial content in web through youtube.com channel.

S.N O	Staff Name	Material Uploaded	Website
1	Dr. S. Roselin Mary	Design and Analysis of Alogorithm	Youtube  https://www.youtube.com/watch?v=BhY31FdqdRw&t=35s
2	Ms. A. Malathi	Basics of Python	Youtube  https://www.youtube.com/watch?v=IICWq90UydQ&t=3s
3	Mr. A.S. Balaji	Stack and Queue –A Quick Learning	Youtube  https://www.youtube.com/watch?v=gi4pEvJCPxA&t=5s
4	Mrs. M. Maheshwari	Artificial Intelligent	Youtube  https://www.youtube.com/watch?v=UgP1gadQehY
5	Mr. D. Anand Joseph Daniel	Human Computer Interaction	Youtube  https://www.youtube.com/watch?v=AQjYB84vxJE&t=7s
6	Mrs. K. Amsavalli	Tree Traversal, Binary Tree, Topological sort.	Youtube  https://www.youtube.com/watch?v=BhY31FdqdRw  https://www.youtube.com/watch?v=rLBwdPhYrKI  https://www.youtube.com/watch?v=LORR2Wr3AcA&t=4s