





## VIRTUAL LABS TO PROMOTE EXPERIENTIAL LEARNING

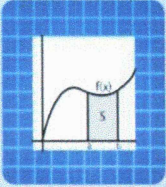
(Reference: *An Initiative of Ministry of Education, Under the National Mission on Education through ICT*) - Computer Programming lab developed at IIT Hyderabad.

### Computer Programming Lab

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#### 1. Numerical Approximation



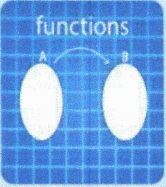
This experiment demonstrates the idea that one can attain a perfect solution in the limit by successively computing approximations to the exact value. The intent behind this experiment is to make use of ideas learned in the previous experiments. This is intended to introduce the student to numerical methods.

**Objectives of this experiments are :**

1. To understand that for some problems an approximate numerical solution is as good as the exact solution for practical purposes.

Prerequisite :

#### 2. Functions



Functions enable modular decomposition of large programs. They allow reuse and improve readability and maintainability of programs. When constructed properly, functions also enable reasoning about their properties. A function typically receives arguments and returns a value. This experiment shows function definition and invocation within a program.

**Objectives of this experiments are :**

1. To understand that a big program can be broken up into independent modules.
2. To learn to define functions and call them with appropriate parameters.

Prerequisite :

## Screenshot of the Virtual Lab Usage by Students of CSE – II year

### Array ( Insertion Sort )

#### Initialize

Enter Array Size

OK

Generate Random Values  
 Enter Values Manually

Enter values here in comma separated format or separated with space

Start Next

#### Step Execution

```
int main(){
int i, j, size, key ;
int A[size];
for( i = 1 ; i < size ; i++ )
{
key = A[i];
j = i - 1;
while ( j >= 0 && A[j] > key )
{
A[j+1] = A[j];
j--;
}
A[j+1] = key;
}
return 0 ;
}
```

#### Code Output

Sorted Unsorted Key Position

5 6 7 11 11

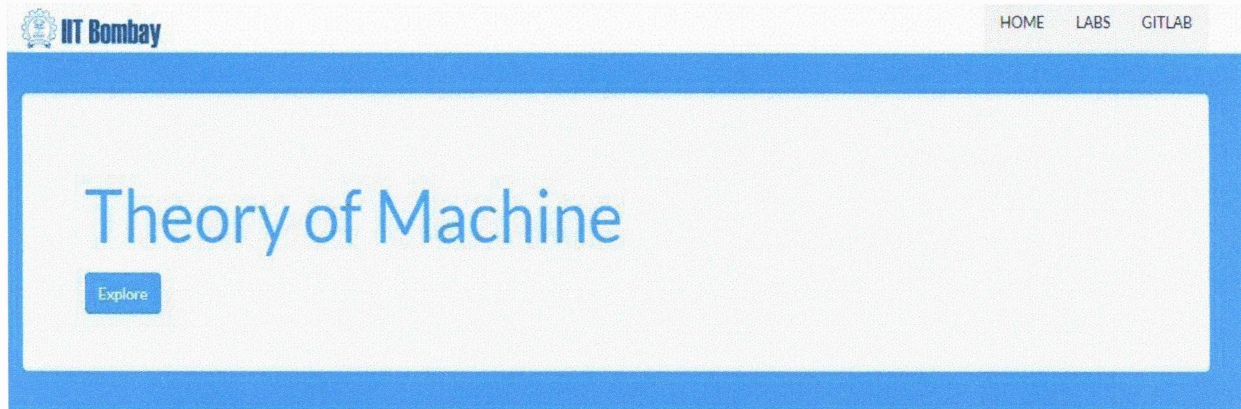
0 Key Value

*Asw*  
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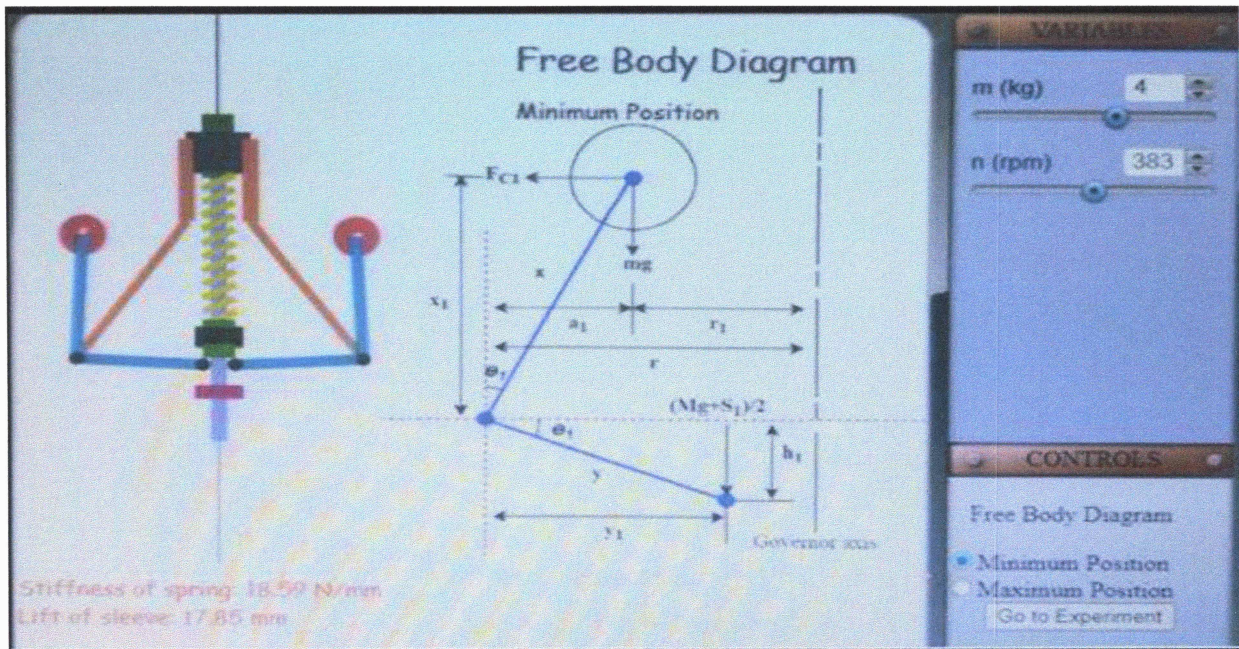



(Reference: Lab contributed by Maharashtra Institute of Technology)



This lab is contributed by Maharashtra Institute of Technology

**Screenshot of the Virtual lab Usage by Students of MECH – III year**



  
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## **EXHIBITING MODELS TO PROMOTE EXPERIENTIAL LEARNING**

**Innovative Idea to erect the Dam structure students of Civil - III year**



**Inauguration of the Building Structure by students of Civil - III year**



*J. S. S.*

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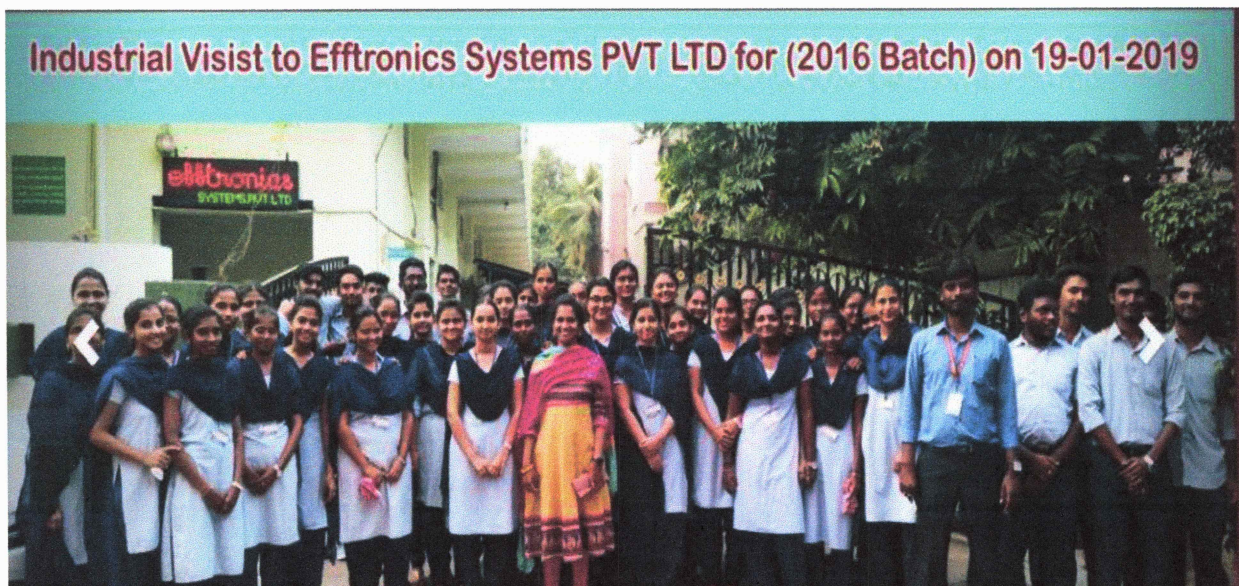


**INTERNSHIPS AND INDUSTRIAL EXPOSURE TO  
ENCOURAGE EXPERIENTIAL LEARNING**

**Department of Computer Science:**



**Department of Information and Technology:**



  
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**TRAINING AT SIEMENS LAB TO IMPART  
EXPERIENTIAL LEARNING**

**Department of Mechanical Engineering:**



**Electronics and Communication Engineering: II year**

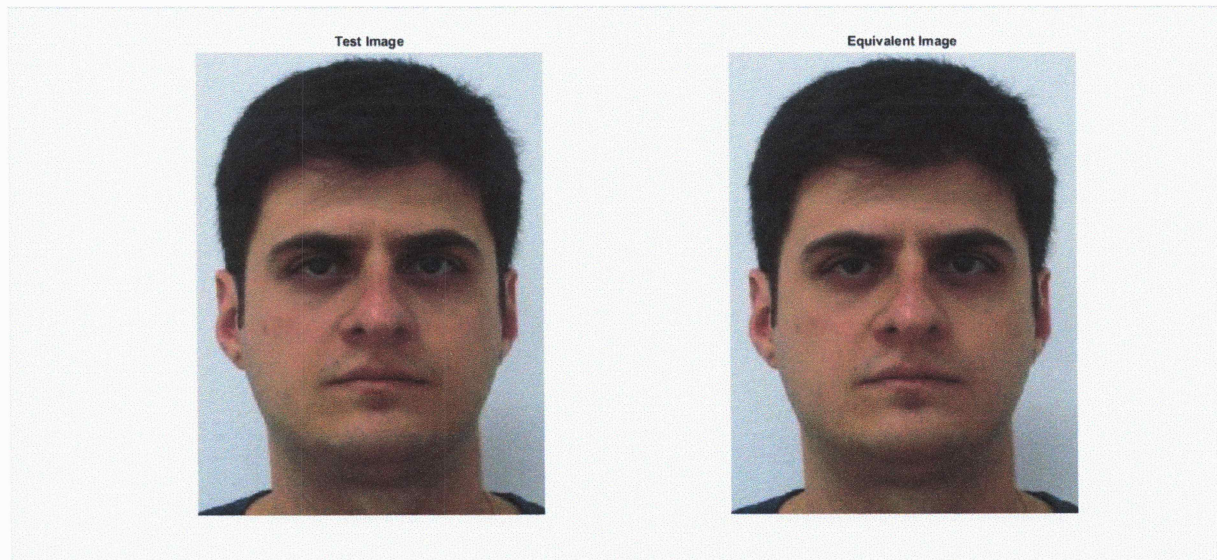




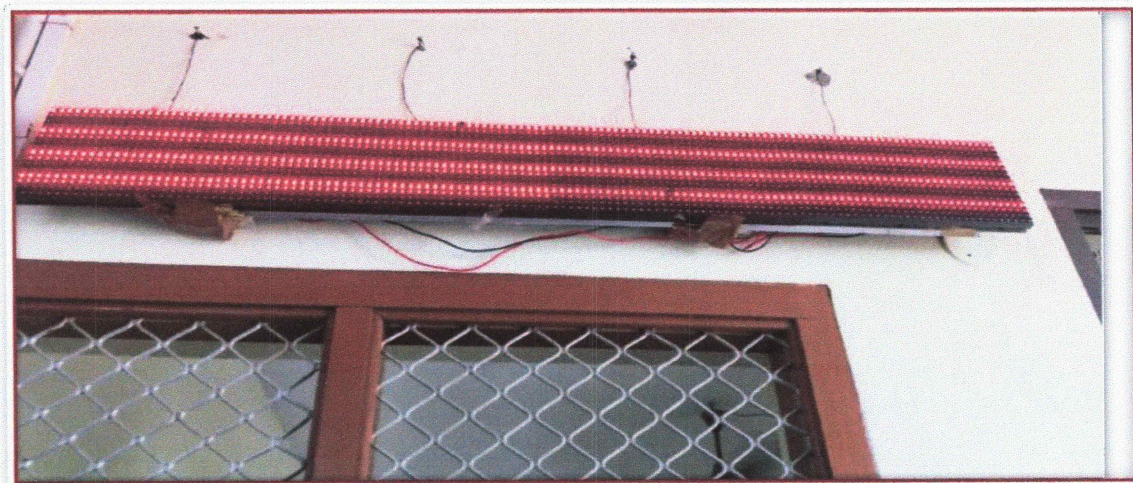


## **EXPLORING INNOVATIONS THROUGH PROJECT WORK FOR CREATING EXPERIENTIAL LEARNING**

### **Human Face Recognition Flow – Dept. of ECE, IV year**



### **LED display board – Dept. of EEE, IV year**



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## VIDEO MAKING

### Uploads



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PremKumar, D · 3d



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## AUDIO VISUAL LEARNING IN ENGLISH LANGUAGE LAB TO PROMOTE EXPERIENTIAL LEARNING

### Audio visual learning in English Language lab – IT I year



  
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