PROJECT LAB

Project Lab is used for conducting presentations and demonstration related to the Minor Projects, Major Projects, Internship and other activities.

Major Equipments

- Projector
- 38 HP Compaq Pro 6300 MT computers with configuration:
  - Intel Core i7 CPU 3.40 GHz
  - 4 GB RAM
  - 500 GB/ 1 TB HDD
  - 5 KVA UPS
- Softwares available:
  - Anaconda3 2018
  - Python 3.10.4
  - Mysql 5.5
  - Turbo C
  - Matlab r2013b
  - Microsoft Visual C++
  - Code Block
  - SAS
  - JDK 6u17
  - R Studio

Department of Computer Science and Engineering

PROJECT LAB

Lab Ethics

- Be on time for your assigned lab session.
- Make Proper entry in log register before taking your assigned system.
- Perform practical's as explained by the facilitator individually, ask for guidance from the facilitator when stuck.
- Aim to finish, at least one practical in a session
- After completion, shut down your systems properly.
- Collect your extensible if any like flash drive, mobiles, notebook, pen extra before you leave your station.
- Arrange the stools and chairs properly before you leave your assigned station and the lab.

In Charge:
Dr. Ranjeet Kumar Singh

Physical In Charge:
Mrs. Shiva Patel

Department of Computer Science and Engineering

List of Skill Based Mini Projects for Information Security

- Email monitoring.
- Web application firewall.
- Log Analyzer.
- Malware Analysis Sandbox.
- Encryption Software.
- Caesar code Decoder.
- User authentication system.
- Image Steganography system.
- Anomaly detection, intrusion and its prevention.

List of Skill Based Mini Projects for Data Science

Implemented using python programming and related libraries:
- Turn Health Insurance Cost Prediction model.
- Salary Prediction model.
- Loan Amount Prediction model.
- Crop Yield Prediction Model.
- Stock Prediction Model.

List of Skill Based Mini Projects for Computer Networks

- Design and demonstrate the operation of the Ethernet network to examine the performance of the Ethernet network under different scenario using the NET Simulator.
- Design and demonstrate the implementation of a token ring network to examine the performance of the token ring network under different scenarios with the use of Net Simulator.
- Design and demonstrate the basics of designing a network, taking into consideration the users, services, and locations of the hosts.
- Configure and analyze the performance of the Open Shortest Path First (OSPF) routing protocol with the use of NET Simulator.
- Design and demonstrate the congestion control algorithms implemented by the Transmission Control Protocol (TCP).
- Examine the effect of different queuing disciplines on packet delivery and delay for different services using the NET Simulator.

List of Skill Based Mini Projects for Data Base Management System

- Blood Bank Management System.
- Railway Management System.
- Airlines Management System.
- Courier Service Management System.
- Attendance Management System.
- Inventory Management System.
- University Management System.
- Online Shopping Management System.
- Dispensary Management System.
- Taxi Management System.
- Retail Shop Management System.
- Stadium Seat Booking Management System.