



DAYANANDA SAGAR ACADEMY OF TECHNOLOGY & MANAGEMENT

(Affiliated to Visvesvaraya Technological University, Belagavi and Approved by AICTE, New Delhi)
(All branches of B.E Courses have been Accredited NBA, New Delhi)



Department of Computer Science and Engineering

CSE Laboratories

1: Data Structures and Algorithms Laboratory



Dimension: 968.752 Sq ft (90 Sq.m)

Odd Semester –

1. Data Structure Lab

The course is designed to develop skills to design and analyze simple linear and nonlinear data structures. It strengthens the ability to the students to identify and apply the suitable data structure for the given realworld problem. It enables them to gain knowledge in practical applications of data

Structures.

2. Computer Networks Lab

This course provides the knowledge of simulators for different connections, error detection using CRC, find the shortest path in the network, encryption and decryption of data by using simulation NCTU/NS-2.

Even Semester –

1. Design & Analysis of Algorithms Lab

The course focuses on data abstraction and object-oriented programming techniques and is currently taught in Java. The course gives a general introduction to data structures and the algorithms that operate on those structures.

Equipments: Computers (36 in numbers)

Configuration:

Make: HP Pro 3330sfe

Processor: i3, 3.01Ghz

RAM: 2GB

HDD: 500GB

Monitor: LED-Type

OS: Windows 7, ubuntu

Softwares: XAMP, Turbo-C,

NetBeans.

Lab Instructor: Mr. Vinay Kumar C M

2: DBMS Laboratory



Dimension: 968.752 Sq ft (90 Sq.m)

Odd Semester –

1. DBMS Lab

The course reviews topics such as conceptual data modeling, relational data model, relational query languages, relational database design and transaction processing and current technologies such as semantic web, parallel and SQL databases. It exposes the student to the fundamental concepts and techniques in database use and development as well provides a foundation for research in databases.

Even Semester –

1. SS/OS Lab

This course will enable students to make familiar with lexical analysis and syntax analysis phases of compiler design and implement programs on these phases using Lex and Yacc tools

Equipments: Computers (40 in numbers)

Configuration:

Make: HCL

Processor: Core 2 Duo, 3.10 Ghz

RAM: 2GB

HDD: 320GB

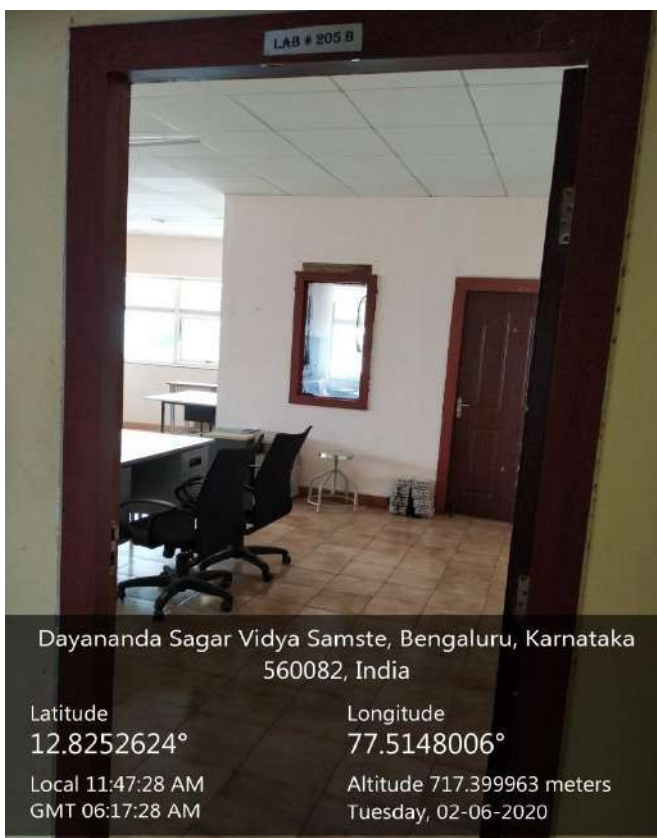
Monitor: LED-Type

OS: Windows XP, Fedora

Softwares: MySQL, Codeblocks,
MASM 6.0, Keil-µVision4, Flash
Magic, pSpice, modelsim

Lab Instructor: **Lab Instructor:** Mr.
Santhosh Kumar K P/
Mr. Prashant V

3 : Analog and Digital Electronics Laboratory and Microprocessor Laboratory



Dimension: 1162.5Sq ft (107.9 Sq.m)

Odd Semester – ADE Lab

This course provides knowledge on JFETs, MOSFETs, operational Amplifier circuits, combinational logic. It will also strengthen the ability to apply knowledge gained in the design of Counters, Registers, A/D & D/A converters.

Equipments: CRO, Variable Power Supply, Signal Generator, IC Trainer Kits, Multimeter, Fixed Power Supply

Even Semester – Microprocessor Lab

This course will enable students to make familiar with importance and applications of microprocessors and microcontrollers. Expose architecture 8086 microprocessor and ARM Processor and instruction set of ARM Processor

Equipments: PCI-Add on Card, Logic Controller Interface, 7-Segment LED Display Interface, Keyboard Interface, Stepper Motor Interface, Dual DAC Interface, Elevator Interface, Power Supply Model: ESA PS M2, Cathode Ray Oscilloscope: CRO

Computers (5 in numbers)

Configuration:

Make: HCL

Processor: Core 2 Duo, 3.10 Ghz

RAM: 2GB

HDD: 320GB

Monitor: LED-Type

OS: Windows XP, Fedora

Softwares: Orcad Pspice, model sim, MASM 6.0, Keil-µVision4, Flash Magic, pSpice, modelsim

Lab Instructor: Mr. Santhosh Kumar K P

4 : Machine Learning Laboratory/Computer Graphics and Internship Lab



Dimension: **1162.5Sq ft (107.9 Sq.m)**

Odd Semester-

Machine Learning Lab

This course enables the students to:

1. Understand the implementation procedures for the machine learning algorithms.
2. Design Java/Python programs for various Learning algorithms.
3. Apply appropriate data sets to the Machine Learning algorithms.
4. Identify and apply Machine Learning algorithms to solve real world problems.

Even Semester –

Computer Graphics Lab

This course will enable students to apply the concepts of computer graphics. To implement computer graphics applications using OpenGL. To implement real world problems using OpenGL.

Equipments: computers (36 in numbers)

Configuration: 24 systems

Make: HP 280 G3 SFF Business PC

Processor: I7-9700, 3.00 GHz

RAM: 8.00 GB

HDD: 1 TB

Monitor: LED-Type

OS: Windows 8.1

Configuration: 12 systems

Make: Dell Optiplex 3020

Processor: I5-4590, 3.30GHz

RAM: 4.00 GB

HDD: 500 GB

Monitor: LED Type

OS: Windows 8

Softwares: Code Blocks, Net beans, Anaconda, NCTUNS, NS2, Codeblocks

Lab Instructor: Mr. Prashanth V, Mrs. Amita Kashyap

5 : C Programming Laboratory



Dimension: **1162.5Sq ft (107.9 Sq.m)**

Even/Odd Semester- C Programming Laboratory

This course enables the students to gain Knowledge on various parts of a computer, to draw flowcharts and write algorithms and to design and development of C problem solving skills and to design and develop modular programming skills. Students are able to trace and debug a program

Equipments: Computers (36 in numbers)

Configuration:

Make: DELL

Processor:i5, 3470CPU, 3.20Ghz

RAM: 4GB

HDD: 500GB

Monitor: LED-Type

OS: Windows 7, ubuntu,

Softwares: Turbo-C

System Admin: Mr. Gopala Krishna K B

6. Project Lab



Dimension: **721.182 Sq ft (67 Sq.m)**

Project Lab

Students can carry out their academic projects.

7. Research Lab/ VGST (Vision Group on Science and Technology) Big Data Lab



Dimension: **322.917Sq ft (30 Sq.m)**



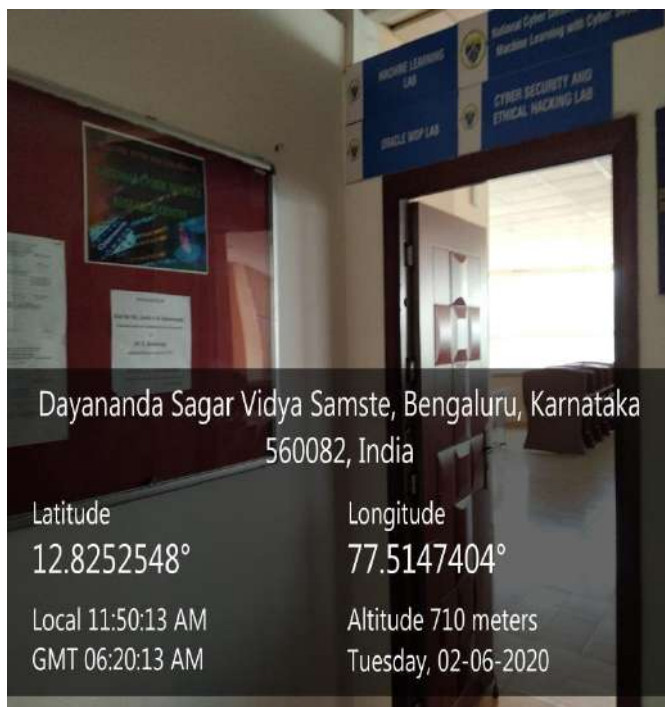
Dimension: **721.182 Sq ft (67 Sq.m)**

This is a VGST sponsored- KFIST Big Data Analytics Lab granted for the project titled “Detection of Intrusion Through Big Data Analytics for Wireless Sensor Networks” to carry out research activities
Sponsored Amount: INR. 20 Lakhs
Co-ordinator: Dr. J Anitha

VTU Research Centre:

VTU has granted Research Centre to the department under which scholars are registering to the doctoral degree.

8. Program Specific Laboratory



Dimension: **1162.5Sq ft (107.9 Sq.m)**

Even/Odd Semester- Program Specific Lab

1. Oracle WDP (Workforce Development Program) Lab

This lab is setup in association with Oracle University. The objective of this lab is to conduct hands-on training for students to crack Oracle global certification & placements under Oracle WDP

2. Cyber Security And Ethical Hacking Lab

This lab is setup in association with Cybercure Technology. The objective of this lab is to conduct workshops, innovative events, technical talk, and hackathons.

3. Red Hat Linux Lab

This lab is setup in association with Red Hat Linux. The objective of this lab is to train students to crack Red hat Linux certification program

- #### 4. NCDRC (National Cyber Defence Research Centre) Lab: Machine Learning with Cyber Security Research Centre
- was setup in association with National Cyber Defence Research Centre (NCDRC) of National Cyber Security Safety Standards. The objective of this lab is to conduct workshops, innovative events, technical talk, hackathons and to carry out projects.

9. CSE Innovation lab

CSE Innovation lab

This lab is set-up by CSE Student Club to create awareness among students with the latest technology. The objective of this lab



Dimension: **371.35 ft (35 Sq.m)**

is to conduct various technical events, competitions, etc.

10. Image Processing Lab



Dimension: **721.182 Sq ft (67 Sq.m)**

Image Processing Lab

The objective of this lab is to carry out research activities, Project development

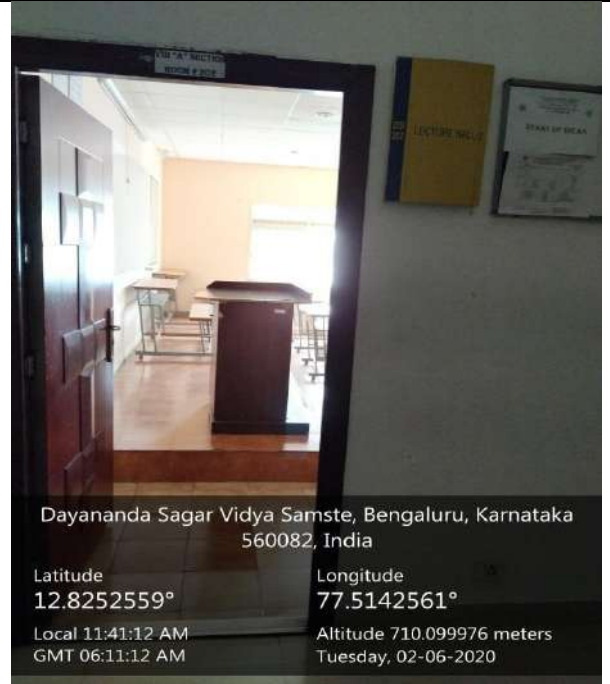
CSE Class Rooms



Dayananda Sagar Vidya Samste, Bengaluru, Karnataka
560082, India

Latitude	Longitude
12.8252731°	77.5141448°
Local 11:40:10 AM	Altitude 710.099976 meters
GMT 06:10:10 AM	Tuesday, 02-06-2020

Room No: 201 Capacity: 74
Dimension: 788 Sq.ft. (73.21 Sq.m)



Dayananda Sagar Vidya Samste, Bengaluru, Karnataka
560082, India

Latitude	Longitude
12.8252559°	77.5142561°
Local 11:41:12 AM	Altitude 710.099976 meters
GMT 06:11:12 AM	Tuesday, 02-06-2020

Room No: 202 Capacity: 74
Dimension: 788 Sq.ft. (73.21 Sq.m)



Dayananda Sagar Vidya Samste, Bengaluru, Karnataka
560082, India

Latitude	Longitude
12.8252726°	77.5146036°
Local 11:41:44 AM	Altitude 717.5 meters
GMT 06:11:44 AM	Tuesday, 02-06-2020

Room No: 203 Capacity: 76
Dimension: 802 Sq.ft. (74.55 Sq.m)



Dayananda Sagar Vidya Samste, Bengaluru, Karnataka
560082, India

Latitude	Longitude
12.8252381°	77.5146863°
Local 11:45:33 AM	Altitude 710.199951 meters
GMT 06:15:33 AM	Tuesday, 02-06-2020

Room No: 204 Capacity: 78
Dimension: 832 Sq.ft. (77 Sq.m)



Dayananda Sagar Vidya Samste, Bengaluru, Karnataka
560082, India

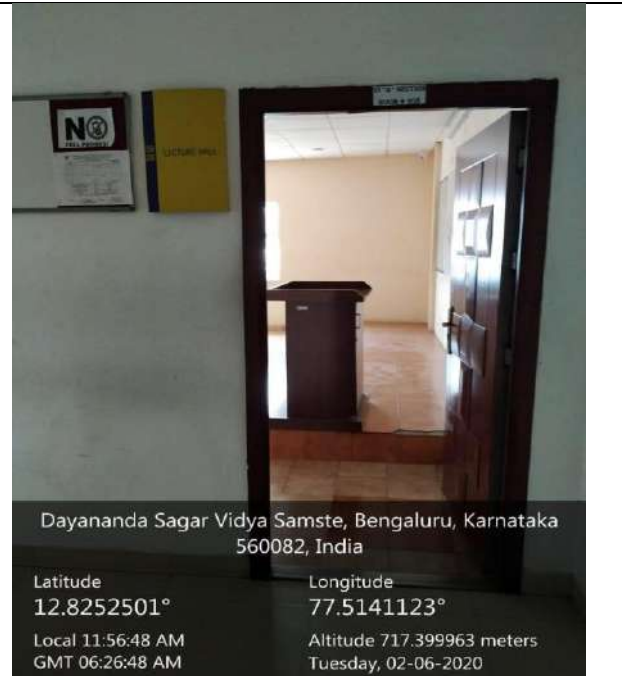
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Local 11:43:41 AM
GMT 06:13:41 AM

Longitude
77.5147939°

Altitude 709.799988 meters
Tuesday, 02-06-2020

Room No: 205 B Capacity: 100
Dimension: 1162.5 Sq.ft. (108 Sq.m)



Dayananda Sagar Vidya Samste, Bengaluru, Karnataka
560082, India

Latitude
12.8252501°

Local 11:56:48 AM
GMT 06:26:48 AM

Longitude
77.5141123°

Altitude 717.399963 meters
Tuesday, 02-06-2020

Room No: 208 Capacity: 98
Dimension: 1076.39sq.ft. (100 Sq.m)

Staff Room

Dimension: 1829.86 Sq.ft. (170 Sq.m)



Dayananda Sagar Vidya Samste, Bengaluru, Karnataka
560082, India

Latitude
12.8252655°

Local 11:57:02 AM
GMT 06:27:02 AM

Longitude
77.5141442°

Altitude 714.199951 meters
Tuesday, 02-06-2020

HOD Cabin Dimension: 238.0977 Sq.ft. (22.16 Sq.m)



Department Office Dimension: 303.5423Sq.ft. (28.2 Sq.m)

