

DEPARTMENT OF COMPUTER SCIENCE & ENGG.

Computing Infrastructure in CSE Department: There are total 09 Computing Labs with 220 Systems

Sub: List of Laboratories and their details

Location	Earlier Name	New Name	Purpose/About Lab	Existing SW	Proposed of SW	HW Configuration	No Of Systems	Faculty Incharge	even sem	odd sem
AG24	Not Applicable (New Lab)	Centre for Artificial Intelligence & Machine Learning and Cloud Computing	This lab is to be established to carry out fundamental and applied research into neural systems and deep learning mechanisms, aimed at creating artificial intelligence and provides and facilitates the students to access virtual machines running on open source operating systems and applications and practical ability in cloud computing environment. The other key characteristic of this lab is its high level of engagement with other disciplines.	Open Source Software / Framework/Tools	Nvidia GPU Drivers Nvidia CUDA Nvidia CuDNN TensorFlow-gpu PyTorch Theano NumPy Keras Caffe OpenCV Python Anaconda	Desktop Computer Systems for AI-ML lab Specifications: 1. Minimum 8 core Intel i7 CPU 2. 32 GB RAM 3. 1 TB HDD 4. OS: Ubuntu 18 5. GPU Card: Nvidia GTX-1050Ti OR Nvidia 1650 6. Display supplied with the system having two inputs (VGS/ HDMI/ DVI) 21-24 inch	25+ 1 Server	Mr. Arko Bagchi M:9434393838 Mail:arko.set@mriu.edu.in	1. computer Network Lab 2. DBMS Lab 3. Python lab 4. Cloud Computing Lab 5. Machine Learning Lab 6. Compiler Design Lab 7. Project Lab 8 Data Mining lab	1. IT Mobile Security Lab 2. GPU Programming Lab 3. ITCAAT Lab 4. 3DCTGMA Lab 5. CCADM Lab 6. Design and Analysis of Algorithms Lab 7. AI Lab 8. ITDS Lab 9. OOPs lab 10. DEVOPS Lab 11. DSA Lab 12. PML Lab
AF-06	PG Research Lab	Research, Innovation, collaboration & Engagement (RICE) Lab	This LAB is established for scientific research which is to produce reliable knowledge and work towards understanding and solving societal, technical, and environmental challenges.	1. Visual Studio 2. Rational Rose 3. TURBO C, C++ 4. JAVA 5. PROLOG	C/C++ IBM SPSS MS Excel, Weka, Mendely Etc	ANT PC PHELI DOLE CL 12700P/ ANT PC PHELI DOLE CL 14900k MR: Specifications: 1. Intel Core i7 12700 (12Core, 20 threads Up to 4.9 GHz)/ i9 (20 Core 32 threads Up to 6.5 GHz), 2. MSI Mainboard PRO B760M-E DDR4, 2X16GB G.Skill Ripsawa V DDR4 3600 MHz, 3. GeForce RTX 3060 12GB Graphics Card,	(25+5 high end) =30	Mr. Ashok M: 98730 80814 eMail: ashokmadaan.set@mriu.edu.in	1. Reinforce learning lab 2. Machine Learning Lab 3. Operating System Lab 4. Programming in R Lab 5. Python Lab 6. IT Network Security Lab 7. Python Lab 8. Cloud	1. Computer Graphics Lab 2. NLP Lab 3. ISF Lab 4. DSA Lab 5. Project Lab 6. SDP Lab 7. Data structure Lab 8. Design and Analysis of Algorithms Lab 9. COII Lab 10. Python Lab 11. AI Lab 12. NLP Lab 13. IT MS Lab
AF-09A	Cloud Lab	High Performance Computing lab	The High Performance Computing Lab is for both classroom instruction as well as a research use. It is used in the instruction of high performance computing, scientific computing, computer graphics, and general Linux instruction.	1. TURBO C/ C++ 2. Netbeans, Putty, 3. Linux Centos, 4. Vmware Player, 5. Andriod , Blender GIMP	MATLAB Linux Python Dev C++ XAMPP, PHP/MYSQL, Subline etc. Android Virtual Box	HP Workstation Processor :i7 HDD: 1TB/500GB RAM:32/16/8/4GB	35	Dr. Shefali Singhal M:7838549223 Mail:shefali.set@mriu.edu.in	1. Project Lab 2. Data mining Lab 3. Deep Learning Lab 4. Computer Network Lab 5. Cloud Computing Lab 6. Digital Forensics Lab 7. Compiler Design Lab 8. Operating System Lab	1. AI Lab 2. Project Lab 3. Computer Graphics Lab 4. Design and Analysis of Algo lab 5. Data Structure Lab 6. Python Lab 7. OOPs Lab 8. Advance ML Lab
AF-09B	Data Analytics Lab	Data Analytics Lab	This lab is aimed to learn advanced technologies of computer science such as Machine Learning, Artificial Intelligence, Deep Learning and Data Mining. The Lab facilitates database designing and management through dedicated tools such as Oracle, and MySQL and related computing paradigm and frameworks. Lab provides computing platform for Python, R, and OpenCV and other necessary for building unique set of ideas, fundamental of Machine Learning, Artificial Intelligence and Deep Learning models and algorithms.	1. TURBO C/ C++ 2. IBM Cognos 3. R Studio 4. Wireshark	Dev C++ IBM Cognos R Studio Python Tableau RapidMiner Studio Matlab	DELL Desktop Processor:i5 HDD:1TB RAM:8GB	30	Mr. Vaibhav Singh Pundir M: 88262 80594 Mail: vaibhavpundir.set@mriu.edu.in	1. Project Lab 2. Data mining Lab 3. Deep Learning Lab 4. Computer Network Lab 5. Cloud Computing Lab 6. Digital Forensics Lab 7. Compiler Design Lab 8. Operating System Lab	1. SDP Lab 2. Data Science Using Python Lab 3. Data structures lab 4. Project Lab 5. OOPs Lab 6. PML lab 7. Design and Analysis of Algorithms 8. Simulation Lab 9. CG Lab 10. AI Lab
AF-11A	ProgrammingLab	Coding Lab	The Coding Lab provides a state of the art computing environment for the students for programming assignments and practice. The lab is installed with all important editors and languages like CodeBlock, Dev C++ which provides a dual operating system environment where the students can learn to execute C and C++ programs in all types of environments.	1. TURBO C, C++ 2. MySQL 3. Unity 4. OPEN GL 5. SCI	Dev C++ CodeBlock Visual Studio Android Python Java	DELL Desktop Processor:i5 HDD:1TB RAM:8GB	30	Dr. Shaveta Jain M:70186 13431 Mail:shavetajain.set@mriu.edu.in	1. DBMS Lab 2. Operating System Lab 3. Machine Learning Lab 4. Programming in R Lab 5. Deep Learning Lab 6. Project Lab	1. Big Data Analytics Lab 2. Machine Learning Lab 3. Adv ML Lab 4. Data Structure Lab 5. OOPs Lab 6. Computer Graphics Lab 7. Adv CG lab 8. Python Lab 9. Adv DSA Lab 10. Python Lab
AF-11B	ProgrammingLab	Full Stack Development lab	A Full-Stack Developer is a developer who works on both the front-end and back-end of a website or application. In this lab students learn to handle projects that involve databases, building user-facing websites. Students will be able to work on both sides and understand the workflow when building an application.	1. TURBO C, C++ 2. MySQL 3. PROLOG	HTML and CSS Editor Java script Editor MySQL Ruby/Python/PHP,	DELL Desktop Processor:i5 HDD:1TB RAM:8GB	30	Dr. Ravinder Kr. Chahar M: 98108 54055 Mail: rkchahar.set@mriu.edu.in	1. DBMS Lab 2. Operating System Lab 3. Data Mining Lab 4. Programming in R Lab 5. Cloud Computing Lab 6. Project Lab	1. Data Structure Lab 2. Data Science Lab 3. AI Lab 4. NLP Lab 5. DAA Lab 6. AI Lab 7. PML Lab 8. SDP Lab 9. Python Lab 10. ML Lab 11. OOPs Lab
AF-11C	ProgrammingLab	Agile Software Engineering Lab	In this lab, students learn the specific type of development methodology that anticipates the need for flexibility and applies a level of pragmatism to the delivery of the finished product.	1. TURBO C, C++ 2. PROLOG 3. VISUAL STUDIO 10	Jira Agile Software C/C++ Visual Studio Git/Any Version Control tool	DELL Desktop Processor:i5 HDD:1TB RAM:8GB	30	Mr. Mahboob Alam M:98916 00022 Mail:mahboobalam.set@mriu.edu.in	1. Computer Network Lab 2. DBMS Lab 3. Python lab 4. Reinforcement Learning Lab 5. ITSS Lab 6. Compiler Design Lab 7. Project Lab 8 Data Mining lab	1. OOPs Lab 2. BI Lab 3. Project Lab 4. Python Lab 5. AI Lab 6. CG Lab 7. DSA Lab 8. Penetration Lab 9. DSA lab
CF-21	Computer Lab(Installed with New Machine)	Visualization & Graphics Lab	The Visualization and Graphics Lab serves as a facility for conducting research in the areas of scientific visualization, geometry processing, and computer graphics.	1. TURBO C, C++ 2. SAP	C/C++ Python Matlab OpenCV	HP Desktop MODEL: 280 Pro G6 Processor:i5 HDD: 1TB RAM:8GB	60	Ms. Shobha Tyagi M:9717054707 Mail:shobhatyagi.set@mriu.edu.in	1. PPS Lab 2. Matlab Lab	1. PPS Lab 2. Matlab Lab