Department of Computer Science & Technology

Computing Facilities within the Department

Program Specific Laboratory Courses:

To meet the Program Specific Laboratory curriculum requirements, Lab09, Lab 10, Lab 06 and Lab 11 are used. The list of R18 and R20 Laboratory Courses are:

R18 - Curriculum Practical Courses

Year	Semester	Name of the Course
II	I	18CST201 - Data Structures Laboratory
		18CST202 - Object Oriented Programming using JAVA Laboratory
		18CST203 - Database Management Systems
	II	18CST204-Design and Analysis of Algorithms Laboratory
		18CST205-Operating Systems Laboratory
III	I	18CST206-Computer Networks Laboratory
		18CST207-AI Tools, Techniques and Applications Laboratory
	II	18CST209-Software Engineering Laboratory
IV	I	18CST210-Distributed and Cloud Computing Laboratory
		18CST211-Mobile Application Development Laboratory

R20 - Curriculum Practical Courses

Year	Semester	Course Code & Course Title
II	I	20CST202-Data Structures and Algorithms Laboratory
		20CST203-Database Systems Laboratory
	II	20CST204-Network and Communication Laboratory
		20CST205-Object Oriented Programming Using Java Laboratory
		20CST206-Operating Systems Laboratory
III	I	20CST207 AI Tools, Techniques and Applications Laboratory
		20CST208-Software Engineering Laboratory
	II	20CST209-Cryptography and Network Security Laboratory
		20CST210-Cloud Computing Laboratory
		20CST211-Internet and Web Programming Laboratory

Skill Oriented Courses

Year	Semester	Course Code & Course Title	
II	II	Skill Oriented Course -II	20CST601- Web Development using FLASK Framework
			20CST602- Data Science using R
III	I	Skill Oriented Course -III	20CST603- Computer Graphics
			20CST604- Data Mining
	II	Skill Oriented Course -IV	20CST605- Software Testing
			20CST606- Pattern Recognition
IV	I	Skill Oriented Course -V	20CST607- Statistics with R Programming
			20CST608- Middleware Technologies
			20CST609- Selenium with Java

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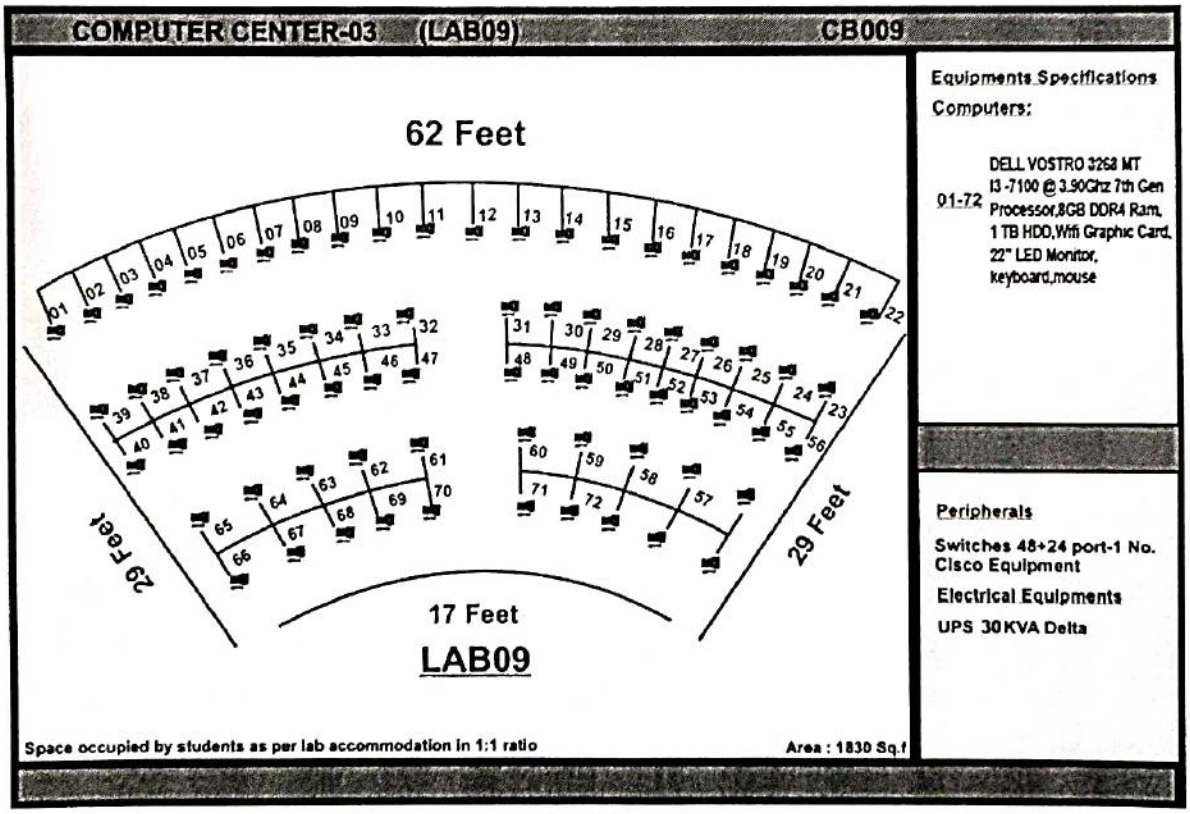
Hardware Details

Name of the Laboratory: Lab 09

S.No	Equipment Type	Specification	Size / Units
1	Area		1830 Sq.Ft
2	Computer – Dell Vostro 3268 MT Series	I3 7th Gen Processor 8GB DD RAM 1TB HDD, Wifi Graphic Card Dell 22'' Monitor Keyboard & Mouse	72 Units
3	Peripherals	Switches 48 + 24 Port 1 CISCO Equipment	1 Unit
4	Electrical Equipment	UPS 30KVA Delta	1 Unit



LAB 09 Layout

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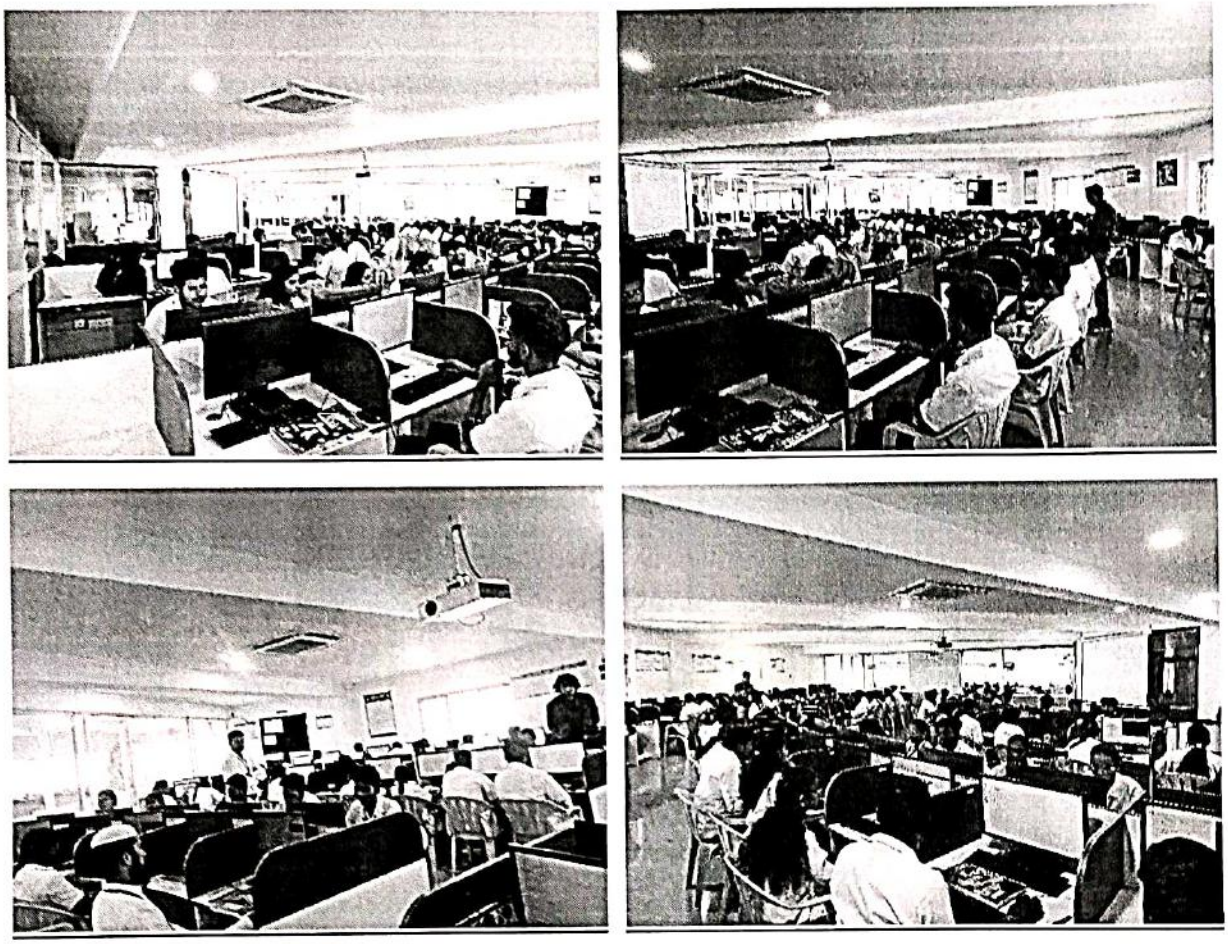
Sample Photographs of Lab 09:



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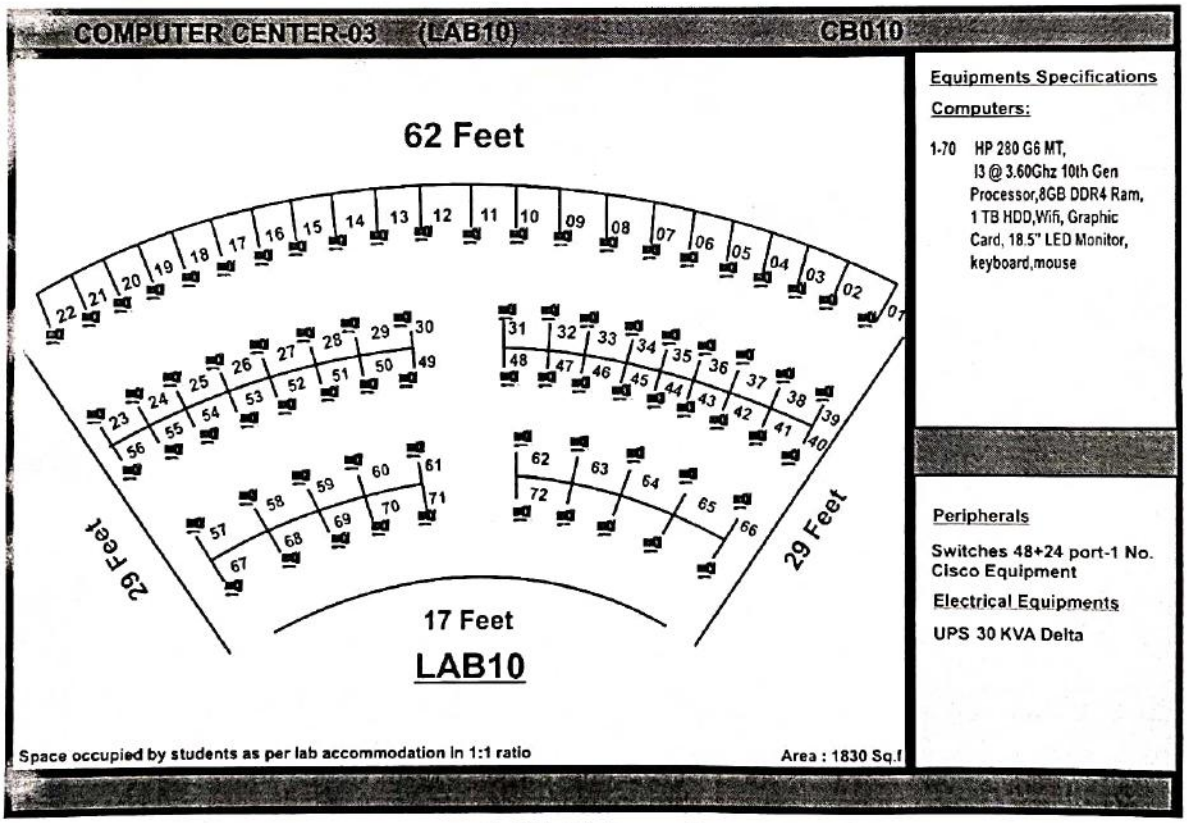
Name of the Laboratory: Lab 10

S.No	Equipment Type	Specification	Size / Units
1	Area		1830 Sq.Ft
2	Computer – HP 280 G6 MT Series	I3 10th Gen Processor 8GB DD RAM 1TB HDD, Wifi HP 18.5'' Monitor Keyboard & Mouse	70 Units
3	Peripherals	Switches 48 + 24 Port 1 CISCO Equipment	1 Unit
4	Electrical Equipment	UPS 30KVA Delta	1 Unit



LAB 10 Layout

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Sample Photographs of Lab 10:

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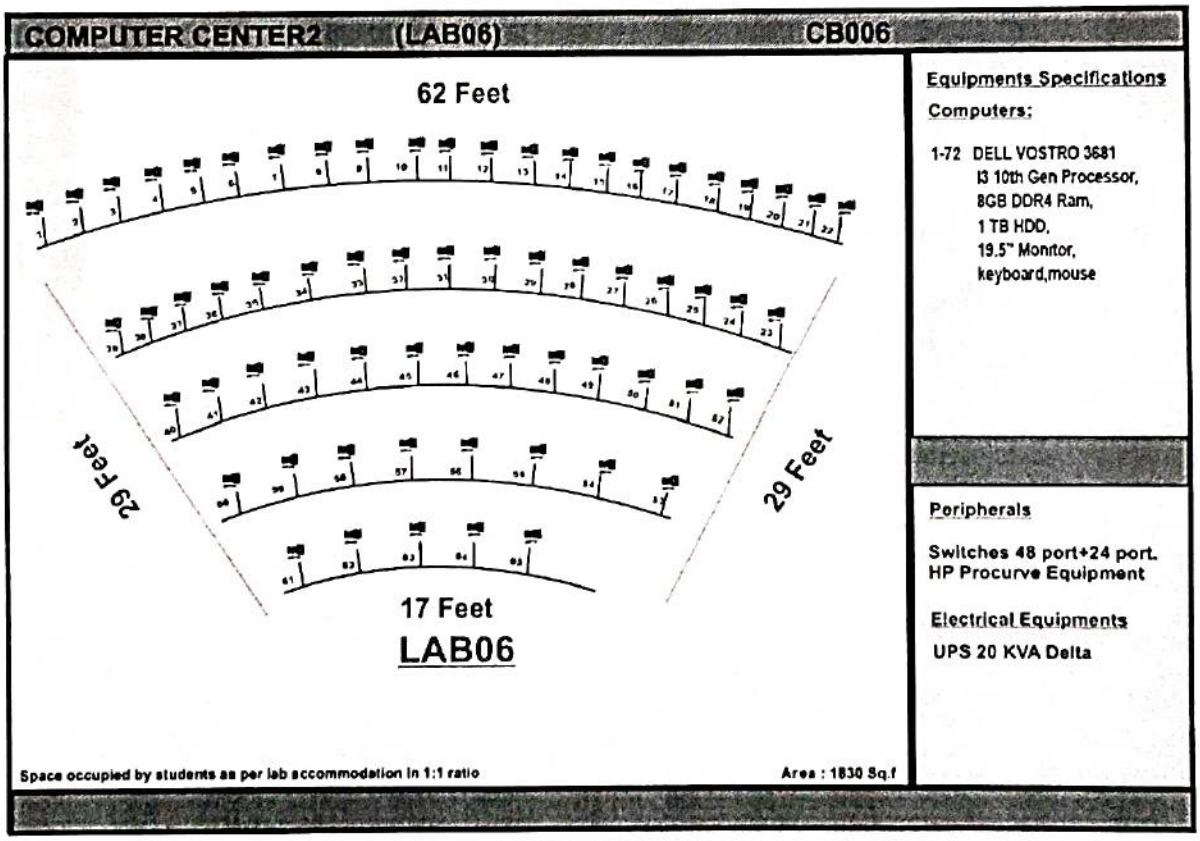
Name of the Laboratory: Lab 06

S.No	Equipment Type	Specification	Size / Units
1	Area		1830 Sq.Ft
2	Computer – Dell Vostro 3681 Series	I3 10th Gen Processor 8GB DD RAM 1TB HDD Dell 19.5'' Monitor Keyboard & Mouse	72 Units
3	Peripherals	Switches 48 + 24 Port HP Procurve Equipment	1 Unit
4	Electrical Equipment	UPS 20KVA Delta	1 Unit



LAB 06 Layout

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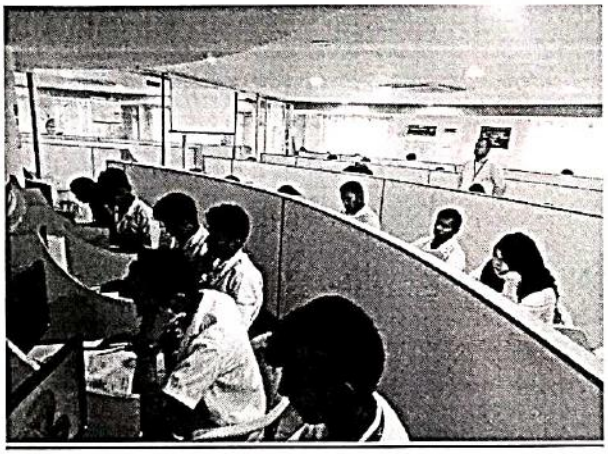
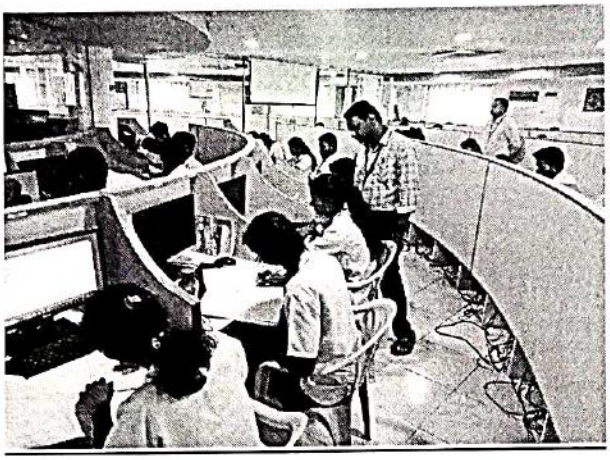
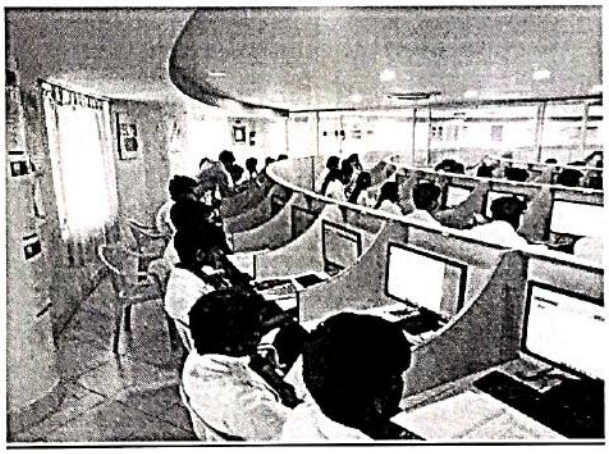
Sample Photographs of Lab 06:







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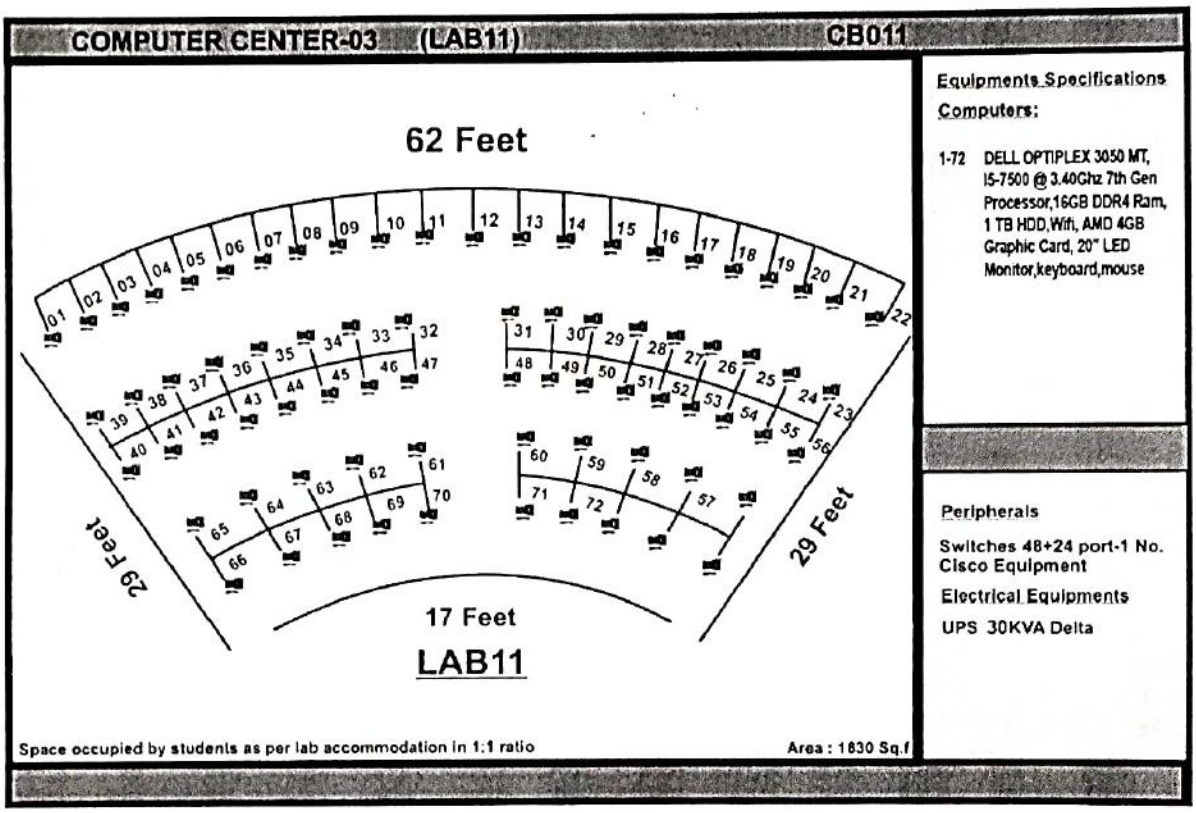
Name of the Laboratory: Lab 11

S.No	Equipment Type	Specification	Size / Units
1	Area		1830 Sq.Ft
2	Computer- Dell OPTIPLEX 3050 MT Series	I5 7th Gen Processor,16GB DDR4 RAM, 1TB HDD, WiFi, Dell 19.5'' Monitor, Keyboard & Mouse	72 Units
3	Peripherals	Switches 48 + 24 Port 1 CISCO Equipment	1 Unit
4	Electrical Equipment	UPS 30KVA Delta	1 Unit



LAB 11 Layout

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)
Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi
NAAC Accredited with A+ Grade
NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH), MBA & MCA

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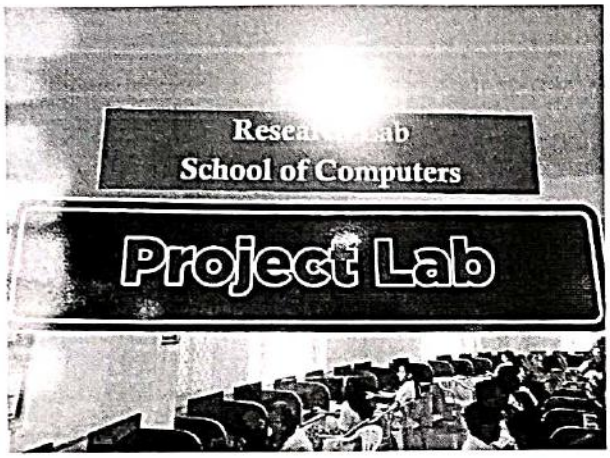
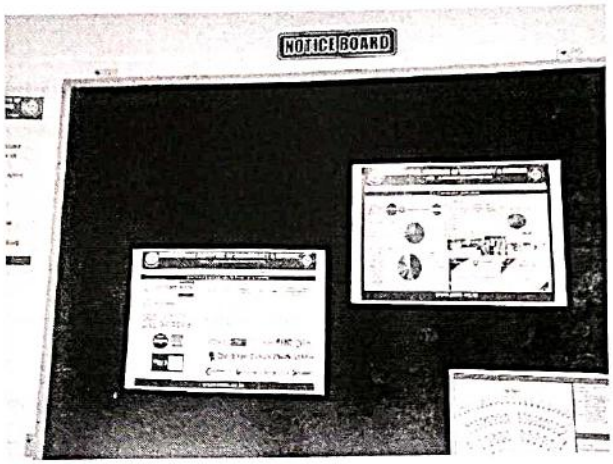
Sample Photographs of Lab 11:





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Software Details

Licensed Software

1	**Legal System Software:**	
	i	Microsoft Windows 8 / 10 / 11
	ii	Microsoft CASA and GGS (Common to All)
2	**Legal Application Software:**	
	i	IBM Rational Rose Software
	ii	Adobe Web Premium CSS/Acrobat Professional
	iii	Oracle Standard Edition

Open-Source Software

1	**Open Source System Software:**	
	i	Ubuntu 18/21 LTS(64-bit)
	ii	Centos
2	**Open Source Application Software:**	
	i	Geany
	ii	g++, gcc -compilers
	iii	Python (idle,idle3,idle3.4)
	iv	Eclipse(eclipse-platform 3.8.1-5.1)
	v	Mysql workbench
	vi	Netbeans IDE 7.0.1
	vii	Weka 3.6, WINRUNNER
	viii	openjdk-7-jdk
	ix	Scratch
	x	libre-base
	xi	Rbase, Rstudio
	xii	J2ME(Sun java wireless Tool Kit
	xiii	Micromedia Flash8
	xiv	Mysql
	xv	php5,php5-mysql
	xvi	Wireshark
	xvii	NS2 or NS3 simulator
	xviii	Snort
	xix	Apache Kafka, Camel, Mulesoft
	xx	Selenium, Junit
3	**BROWSERS:**	
	i	Chrome
	ii	Firefox
	iii	Internet Explorer
	Iv	Microsoft Edge
4	**EDITORS:**	
	i	Gedit
	ii	Vim

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5	OTHER SOFTWARE:	
	i	Rdesktop
	ii	VMplayer/Virtual Box/Vmware
	iii	OpenSSH-server, OpenSSH-Client
	iv	Flash player for Browser
	v	Libreoffice
	vi	VLC player
	vii	Wine
	viii	Play on Linux
	ix	N-stalker

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