MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

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Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi
NAAC Accredited with A+ Grade, NIRF India Rankings 2022 - Band: 251 - 300 (Engg.)
NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH), MBA & MCA

Department of Artificial Intelligence

Hardware Details

Name of the Laboratory: WB222 (Artificial Intelligence Lab)

S.No	Equipment Type	Specification	Size / Units
1	Area	WB222	1172.18 Sq.ft (108.9 Sq.mt)
2	Computers - Samsung 22 " Monitors, Logitech Keyboard & Mouse MK 220/200	7 12Th Gen/ 32GB DDR 4/ 2TB SATA+500GB SSD/NVIDIA 12GB GPU/WIFI	75 No's
3	Peripherals	CISCO 28 port switch	3 No's
4	Electrical Equipment	UPS DELTA 20 KVA HP H-Series	1 No
5	LCD Projector	EPSON W49 3LCD Projector 3000 LUMENS WXGA Resolution-128/800	1 No

WB-222 Lab Specification			Total Systems: 75 Projectors : 01
Model	Mantra Momentum4599 Tower Work Station(MSI)		
Configuration	Processor	i7 Processor 12th Gen	
	RAM	32 GB DDR 4	
	HDD	2 TB SATA+500 GB SSD	
	Graphic Card	NVIDIA 12 GB	
	Monitor	Samsung 22" LED	
	Keyboard & Mouse	Logitech	
Other Equipment Information			
Peripherals	Electrical Equipment		LCD Projector
CISCO 28 port switch- 3 No's	UPS DELTA 20 KVA HP H-series-1 No		EPSON W49 3LCD Projector 3000 LUMENS WXGA Resolution-128/800

Laboratory Name	Software's used
Big Data Analytics	Virtual BOX, Ubuntu OS,Jdk-8, Hadoop 3.3.6, Scala, Spark, Pig, Hive, Mongo DB (all are open source)
Machine Learning, Deep Learning & AI Tools, Techniques and Applications	Jupyter Notebook, Google Colab
Data Structures using Python	Geany, Python IDLE (all are open source)
Operating Systems Fundamentals	Linux OS - Putty

Licensed Application Software's:	Oracle Standard Edition, SQL Server (CASA), Microsoft Office(CASA)
Legal System Software :	Microsoft Windows 8/10/11/ Microsoft CASA (Institute Level)

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Sample Photographs of WB222 Lab:

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Hardware Details

Name of the Laboratory: Lab 05

S.No	Equipment Type	Specification	Size / Units
1	Area	Computer Centre (Lab 5)	1614.59 Sq.ft (150 Sq.mt)
2	Computer – DELL VOSTRO 3669 DESKTOP(DELL02)	i3 7th Gen,1TB HDD,4 GB DDR4 RAM HP-Keyboard,HP-Mouse	66 No's
3	Peripherals	Network Switch HP- Pro Curve 48 port - 01 24 port - 01	2 No's
4	Electrical Equipment	UPS DELTA 20 KVA	1 No

CB- Lab 05 Specification			Total Systems: 66
Model		Dell Vostro 3669 Series	
Configuration	Processor	i 3 Processor - 7th Gen	
	RAM	8 GB DDR 3	
	HDD	500 GB SSD SATA	
	Monitor	Dell 19" Monitor	
	Keyboard & Mouse	HP	

Other Equipment Information	
Peripherals	Electrical Equipment
Network Switch / HP-Pro Curve 48 port- 01 24 port- 01 -- 2 No's	UPS DELTA 20 KVA -1 No

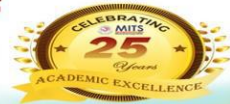| Laboratory Name	Software's used
Data Science Laboratory	Jupyter Notebook, Google Colab
Database Management Systems	SQL, Oracle12G
Design and Analysis of Algorithms & Fundamentals of Artificial Intelligence	Geany, Python IDLE (all are open source)
Object Oriented Programming - JAVA	JDK, Netbeans ,Eclipse, Geany
Operating Systems Fundamentals	Linux OS - Putty

Licensed Application Software's:	Oracle Standard Edition, SQL Server (CASA), Microsoft Office(CASA)
Legal System Software :	Microsoft Windows 8/10/11/ Microsoft CASA (Institute Level)

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Sample Photographs of Lab 05:

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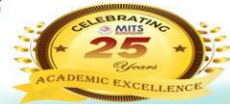**Program specific Labs in R20 Curriculum: (Artificial Intelligence)**

Year	Semester	Lab Course	S/W Requirements
I	I	Programming for Problem Solving (Python)	Python IDLE, Geany, Raptor(All are Open Source)
	II	C Programming and Data Structures Laboratory	Geany (Open Source)
II	I	Data Structures using Python Laboratory	Python IDLE, Geany, any other Online Software's (All are Open Source)
		Object Oriented Programming - JAVA Laboratory	JDK, Netbeans, Eclipse, Geany
		Fundamentals of Artificial Intelligence Laboratory	Python IDLE, Pycharm, Jupiter (Open Source)
		Android Application Development (SOC)	Android Studio latest Version
	II	Operating Systems Fundamentals Laboratory	Telnet in Ubuntu
		AI Tools, Techniques and Applications Laboratory	Jupiter, Google Colab
		Design and Analysis of Algorithms Laboratory	Geany
III	I	Database Management Systems Laboratory	SQL, Oracle12G
		Machine Learning Laboratory	Jupiter, Google Colab
		Python for Data Science	Jupiter, Google Colab
	II	Big Data Analytics Laboratory	VM ware, Ubuntu OS, Hadoop, MangoDB, JDK 0.8, PIG, Scala,Hive, Spark(all are open source)
		Deep Learning Laboratory	AnagondaNavigator, Jupiter, Google Colab
		Data Science Laboratory	Jupiter, Google Colab
		Full Stack Development	MangoDB, XAMPP, Online Compliers.

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Open Source System Softwares :	
1	Ubuntu 18/21 LTS(64-bit)
2	Centos
Open Source Application Softwares :	
1	Geany
2	g++, gcc -compilers
3	Python (idle,idle3,idle3.4)
4	Eclipse(eclipse-platform 3.8.1-5.1)
5	Mysql workbench
6	Netbeans IDE 7.0.1
7	Weka 3.6
8	openjdk-7-jdk
9	Scratch
10	libre-base
11	rbase, rstudio
12	J2ME(Sun java wireless Tool Kit
13	micromedia flash8
14	Mysql
15	php5,php5-mysql
BROWSERS:	
16	chrome
17	Firefox
18	Internet Explorer

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19	**Raptor 4.0.6**
20	**StarUML 5.0**
EDITORS:	
21	**Gedit**
22	**Vim**
OTHER SOFTWARES:	
23	**Rdesktop**
24	**vmplayer**
25	**OpeSSH-server,OpenSSh-Client**
26	**Flash player for Browser**
27	**Libreoffice**
28	**Vlc player**
29	**Wine**
30	**Play on linux**