# MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

(UGC-AUTONOMOUS INSTITUTION)

Affiliated to JNTUA, Ananthapuramu & Approved by AICTE, New Delhi

NAAC Accredited with A+ Grade, NIRF India Rankings 2024 - Band: 201-300 (Engg.)

NBA Accredited - B.Tech. (CIVIL, CSE, ECE, EEE, MECH, CST), MBA & MCA

## Department of Computer Science & Technology

### List of Laboratories and Computing Facility within the Department

The department possess sufficient laboratories which are equipped with adequate hardware and software to meet the program specific curriculum requirements.

**LAB Infrastructure:** Labs 09 & 10 of Computer Centre are assigned to CST Dept.

**File In-charge**

**HOD**

Head of the Department
Computer Science & Technology
Madanapalle Institute of Technology & Science
MADANAPALLE - 517 325

## Department of Computer Science & Technology

The department possess sufficient laboratories which are equipped with adequate hardware and software to meet the program specific curriculum requirements.

**Name of the Laboratory: Lab 09**

***Infrastructure Details***

| S.No | Equipment Type | Specification | Size / Units | Supporting Documents |
|---|---|---|---|---|
| 1 | Area | | 1830 Sq.Ft | |
| 2 | Computer – HP Z2 Tower G9 Work Station | I7-14th Gen Processor, 1X32 GB DDR5 RAM, 1TB NVME M2 SSD, 8GB NVIDIA RTX A1000 Graphics Card, HP21.5" FHD Monitor Keyboard & Mouse | 72 Units | Stock Register |
| 3 | Peripherals | Switches 48 + 24 Port 1 CISCO Equipment | 1 Unit | Stock Register |
| 4 | Electrical Equipment | UPS 30KVA Delta | 1 Unit | Stock Register |

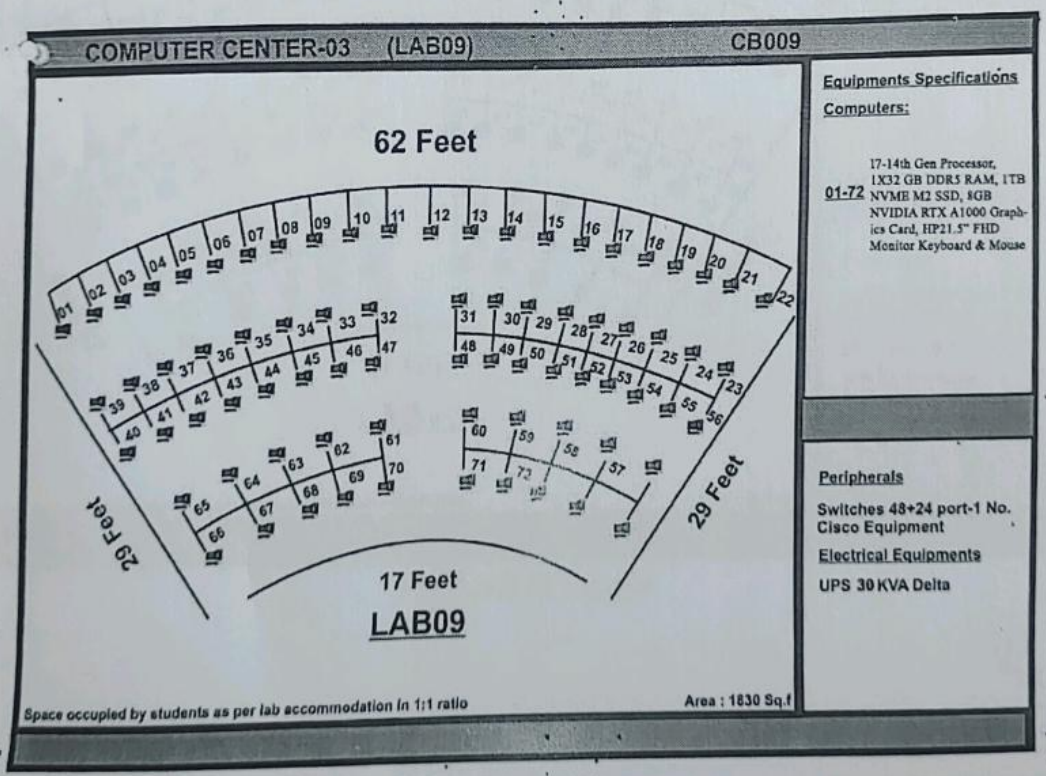


**Fig: LAB 09 Layout**

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## Department of Computer Science & Technology

**Name of the Laboratory: Lab 10**

***Infrastructure Details***

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

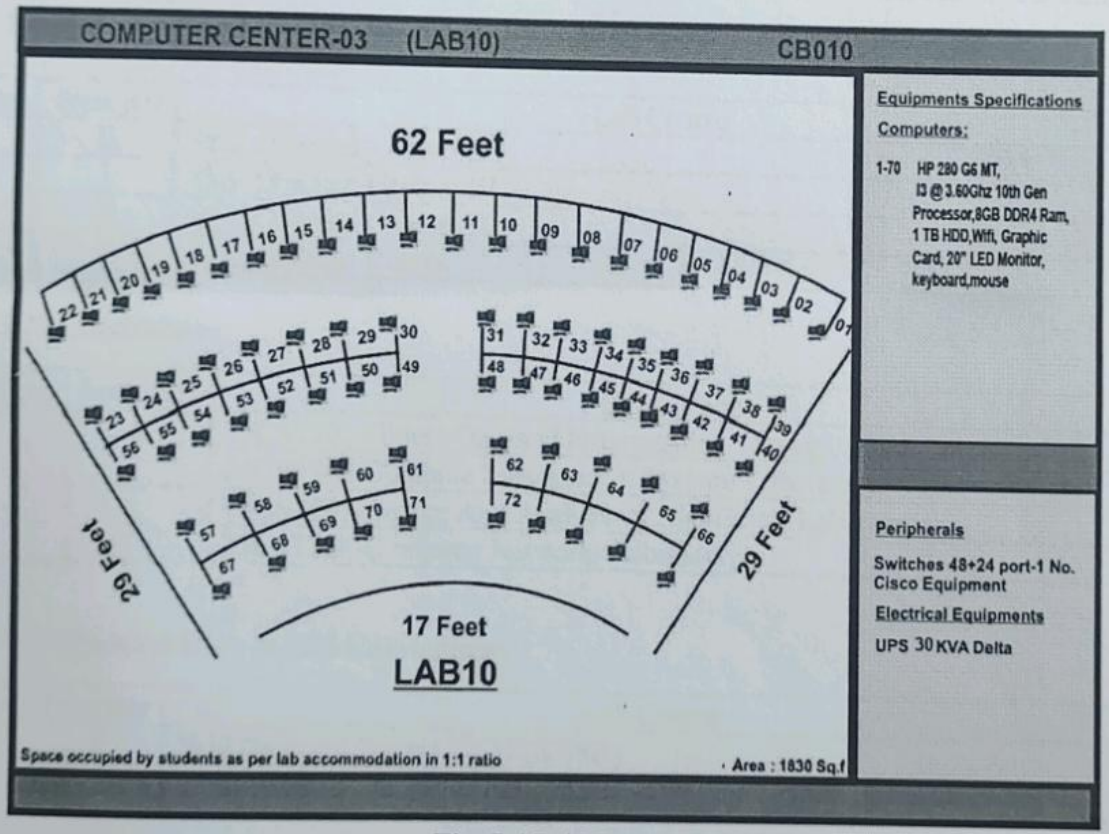


**Fig: LAB 10 Layout**

HOD

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Madanapalle Institute of Technology & Science
MADANAPALLE - 517 325

## Department of Computer Science & Technology

### Program Specific Laboratory Courses

**R20 Curriculum:**

| Year | Semester | Lab Course |
|---|---|---|
| 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 Labs in R20 Curriculum:**

| Year | Semester | Lab Course |
|---|---|---|
| II | II | Skill Oriented Course -II |
| III | I | Skill Oriented Course -III |
| | II | Skill Oriented Course -IV |
| IV | I | Skill Oriented Course -V |

**R23 Curriculum:**

| Year | Semester | Lab Course |
|---|---|---|
| II | I | 23CST201-Object-Oriented Programming Through JAVA Laboratory |
| | | 23CST202-Database Management Systems Laboratory |
| | II | 23CST203-Design And Analysis of Algorithms Laboratory |
| | | 23CST204-Computer Networks Laboratory |

**Skill Oriented Labs in R23 Curriculum:**

| Year | Semester | Lab Course |
|---|---|---|
| II | I | Skill Oriented Course -I (23CST601) |
| | II | Skill Oriented Course -II (23CST603) |

HOD

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# 2024-2025

# EVEN SEMESTER

# MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE

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## Department of Computer Science & Technology

## 2024-25 AY (Even Semester)

**Name of the Laboratory: Lab 09**

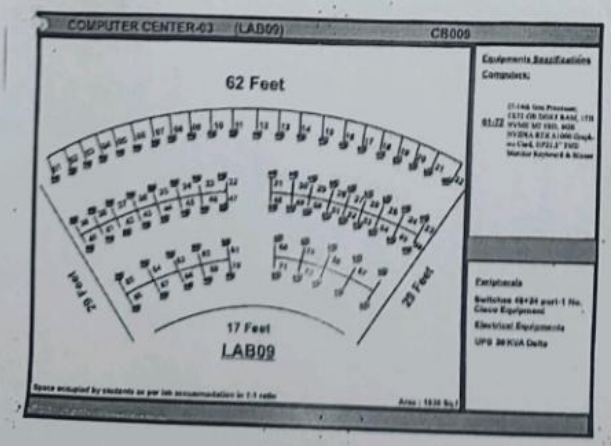
***Infrastructure Details***

| S.No | Equipment Type | Specification | Size / Units | Supporting Documents |
|---|---|---|---|---|
| 1 | Area | | 1830 Sq.Ft | |
| 2 | Computer – HP Z2 Tower G9 Work Station | I7-14th Gen Processor, 1X32 GB DDR5 RAM, 1TB NVME M2 SSD, 8GB NVIDIA RTX A1000 Graphics Card, HP21.5" FHD Monitor Keyboard & Mouse | 72 Units | Stock Register |
| 3 | Peripherals | Switches 48 + 24 Port 1 CISCO Equipment | 1 Unit | Stock Register |
| 4 | Electrical Equipment | UPS 30KVA Delta | 1 Unit | Stock Register |

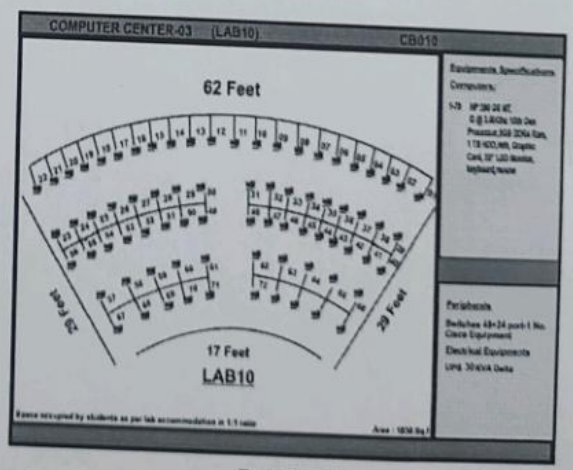
**Name of the Laboratory: Lab 10**

***Infrastructure Details***

| S.No | Equipment Type | Specification | Size / Units | Supporting Documents |
|---|---|---|---|---|
| 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 | Stock Register |
| 3 | Peripherals | Switches 48 + 24 Port 1 CISCO Equipment | 1 Unit | Stock Register |
| 4 | Electrical Equipment | UPS 30KVA Delta | 1 Unit | Stock Register |




LAB 09




LAB 10

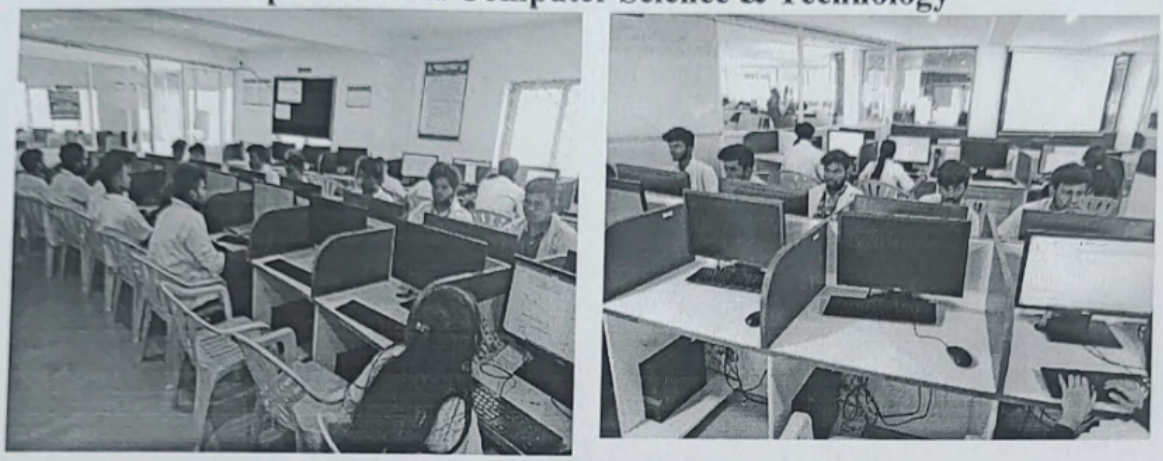


**Fig: Sample Photographs of Laboratories**

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# DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

2024-2025 AY (EVEN Semester)

Even Semester Lab Courses with Allotted Lab Details

**II-II Semester: R23 Regulations**

| Year | Semester | Lab Course | S/W Requirements | Section | Lab Allotted |
|---|---|---|---|---|---|
| II | II | Computer Networks Laboratory | Geany, NS 2 | A | 10 |
| | | | | B | 10 |
| | | | | C | 10 |
| | | Design And Analysis of Algorithms Laboratory | Geany | A | 09 |
| | | | | B | 10 |
| | | | | C | 09 |
| | | Skill Enhancement Course – II | Python – Jupyter. Geany | A | 09 |
| | | | | B | 09 |
| | | | | C | 09 |

**III-I Semester: R20 Regulations**

| Year | Semester | Lab Course | S/W Requirements | Section | Lab Allotted |
|---|---|---|---|---|---|
| III | II | 20CST209 Cryptography and Network Security Laboratory | JDK & JRE, Online Tool | A | 10 |
| | | | | B | 10 |
| | | | | C | 10 |
| | | 20CST210 Cloud Computing Laboratory | Virtual Box, VM images, AWS | A | 09 |
| | | | | B | 09 |
| | | | | C | 09 |
| | | 20CST211 Internet and Web Programming Laboratory | HTML 5.0, XAMP, PHP | A | 10 |
| | | | | B | 10 |
| | | | | C | 09 |
| | | Skill Oriented Course – IV | C Geany, JDK & JRE, Winrunner, Test Director | A | 09 |
| | | | | B | 10 |
| | | | | C | 10 |

HOD
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## DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

### Academic Year 2024-2025

### Lab Slot - Even Semester

**Lab-09**

| | 9.10-10.10 | 10.10-11.10 | 11.10-12.10 | BREAK | 01.00-02.00 | 02.00-03.00 | 03.00-04.00 | 04.00-05.00 |
|---|---|---|---|---|---|---|---|---|
| **Monday** | CC Lab III-CST-A | | | | SOC – II II-CST-A | | SOC – II II-CST-C | |
| **Tuesday** | DAA Lab II-CST-A | | | | | DS Lab I-CST-A | | |
| **Wednesday** | CC Lab III-CST-C | | | | | DS Lab I-CST-C | | |
| **Thursday** | CC Lab III-CST-B | | | | SOC – II II-CST-C | | SOC – IV III-CST-A | |
| **Friday** | DAA Lab II-CST-C | | | | IWP Lab III-CST-C | | | |
| **Saturday** | | | | | | | | |

**Time Table Coordinator**

**HOD**

Head of the Department
Computer Science & Technology
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## DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

**Academic Year 2024-2025**

**Lab Slot - Even Semester**

| Lab-10 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 9.10-10.10 | 10.10-11.10 | 11.10-12.10 | BREAK | 01.00-02.00 | 02.00-03.00 | 03.00-04.00 | 04.00-05.00 |
| Monday | CNS Lab III-CST-C | | | | | CN Lab II-CST-B | | |
| Tuesday | CNS Lab III-CST-B | | | | | CN Lab II-CST-C | | |
| Wednesday | CNS Lab III-CST-A | | | | | IWP Lab III-CST-B | | |
| Thursday | CN Lab II-CST-A | | | | SOC – IV III-CST-C | | SOC – IV III-CST-B | |
| Friday | DAA Lab II-CST-B | | | | IWP Lab III-CST-A | | | |
| Saturday | | | | | | | | |

Time Table Coordinator

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# 2024-2025
# ODD SEMESTER

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## Department of Computer Science & Technology

## 2024-25 AY (Odd Semester)

**Name of the Laboratory: Lab 09**

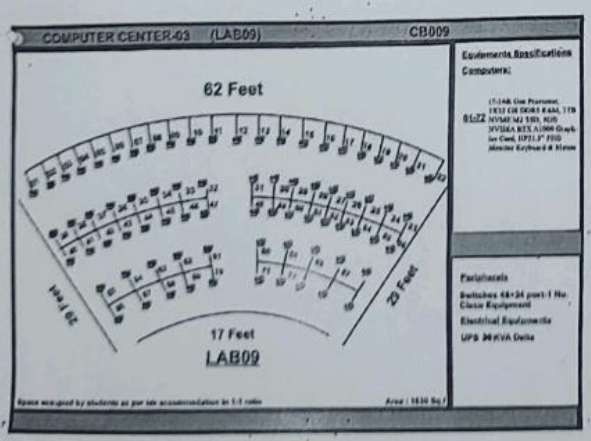
***Infrastructure Details***

| S.No | Equipment Type | Specification | Size / Units | Supporting Documents |
|---|---|---|---|---|
| 1 | Area | | 1830 Sq.Ft | |
| 2 | Computer – HP Z2 Tower G9 Work Station | I7-14th Gen Processor, 1X32 GB DDR5 RAM, 1TB NVME M2 SSD, 8GB NVIDIA RTX A1000 Graphics Card, HP21.5" FHD Monitor Keyboard & Mouse | 72 Units | Stock Register |
| 3 | Peripherals | Switches 48 + 24 Port 1 CISCO Equipment | 1 Unit | Stock Register |
| 4 | Electrical Equipment | UPS 30KVA Delta | 1 Unit | Stock Register |

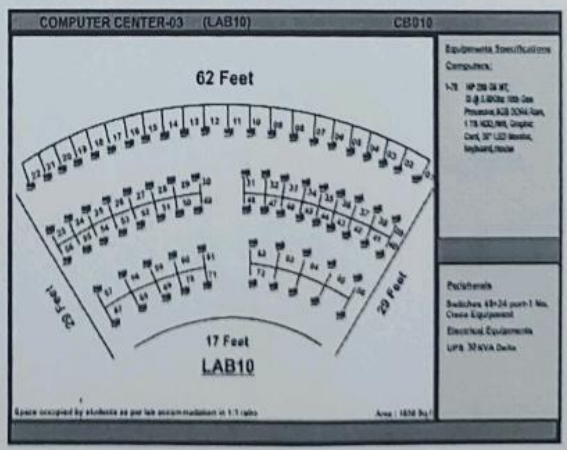
**Name of the Laboratory: Lab 10**

***Infrastructure Details***

| S.No | Equipment Type | Specification | Size / Units | Supporting Documents |
|---|---|---|---|---|
| 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 | Stock Register |
| 3 | Peripherals | Switches 48 + 24 Port 1 CISCO Equipment | 1 Unit | Stock Register |
| 4 | Electrical Equipment | UPS 30KVA Delta | 1 Unit | Stock Register |




LAB 09




LAB 10

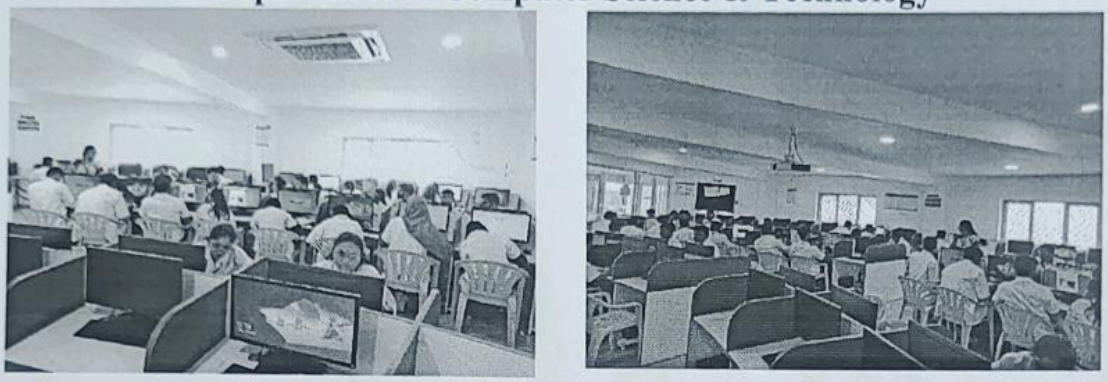


**Fig: Sample Photographs of Laboratories**

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# DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

2024-2025 AY (ODD Semester)

Odd Semester Lab Courses with Allotted Lab Details

**I-I Semester: R23 Regulations**

| Year | Semester | Lab Course | S/W Requirements | Section | Lab Allotted |
|---|---|---|---|---|---|
| I | I | 23CSE201 Computer Programming Laboratory | Geany | A | 09 |
| | | | | B | 10 |
| | | | | C | 09 |

**II-I Semester: R23 Regulations**

| Year | Semester | Lab Course | S/W Requirements | Section | Lab Allotted |
|---|---|---|---|---|---|
| II | I | 23CST201 Object-Oriented Programming Through JAVA Laboratory | Geany | A | 10 |
| | | | | B | 09 |
| | | | | C | 09 |
| | | 23CST202 Database Management Systems Laboratory | Oracle 11G | A | 10 |
| | | | | B | 09 |
| | | | | C | 09 |
| | | Skill Enhancement Course – I 23CST601 Python programming | Python – Jupyter. Geany | A | 10 |
| | | | | B | 10 |
| | | | | C | 09 |

**III-I Semester: R20 Regulations**

| Year | Semester | Lab Course | S/W Requirements | Section | Lab Allotted |
|---|---|---|---|---|---|
| III | I | 20CST207 AI Tools, Techniques and Applications Laboratory | Python – Jupyter, Colab, Anaconda | A | 09 |
| | | | | B | 10 |
| | | | | C | 09 |
| | | 20CST208 Software Engineering Laboratory | Star UML | A | 10 |
| | | | | B | 09 |
| | | | | C | 10 |
| | | Skill Oriented Course – III 20CST604 Data Mining | Oracle 11G & Python - Jupyter | A | 10 |
| | | | | B | 9 |
| | | | | C | 9 |

**IV-I Semester: R20 Regulations**

| Year | Semester | Lab Course | S/W Requirements | Section | Lab Allotted |
|---|---|---|---|---|---|
| IV | I | Skill Oriented Course V 20CST608 Middleware Technologies | JDK & JRE VMware, Eclipse | A | 10 |
| | | | | B | 10 |
| | | | | C | 10 |

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## DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

**Academic Year 2024-2025**

**Lab Slot - Odd Semester**

# Lab-09

| | 9.10-10.10 | 10.10-11.10 | 11.10-12.10 | BREAK | 01.00-02.00 | 02.00-03.00 | 03.00-04.00 | 04.00-05.00 |
|---|---|---|---|---|---|---|---|---|
| **Monday** | III-CST-A ATTA Lab | | | | II-CST-B OOPs Lab | | | |
| **Tuesday** | III-CST-C ATTA Lab | | | | II-CST-C OOPs Lab | | | |
| **Wednesday** | II-CST-B DBMS Lab | | | | II-CST-C Python_SOC | | III-CST-C DM _SOC | |
| **Thursday** | II-CST-C DBMS Lab | | | | | I-CST-C Computer Programming Laboratory | | |
| **Friday** | III-CST-B SE Lab | | | | | I-CST-A Computer Programming Laboratory | | |
| **Saturday** | | | | | | | | |

**Time Table Coordinator**

**HOD**

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## DEPARTMENT OF COMPUTER SCIENCE & TECHNOLOGY

**Academic Year 2024-2025**

**Lab Slot - Odd Semester**

| Lab-10 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 9.10-10.10 | 10.10-11.10 | 11.10-12.10 | BREAK | 01.00-02.00 | 02.00-03.00 | 03.00-04.00 | 04.00-05.00 |
| Monday | III-CST-C SE Lab | | | | 01.00-02.00 | | 02.00-03.00 | |
| Tuesday | II-CST-A DBMS Lab | | | | II-CST-B Python_SOC | | IV-CST-A MT_SOC | |
| Wednesday | III-CST-B ATTA Lab | | | | III-CST-A DM _SOC | | IV-CST-B MT_SOC | |
| Thursday | III-CST-A SE Lab | | | | | | III-CST-B DM _SOC | |
| Friday | II-CST-A OOPs Lab | | | | | I-CST-B Computer Programming Laboratory | | |
| Saturday | | | | | | | | |

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