



# NEW PRINCE SHRI BHAVANI COLLEGE OF ENGINEERING AND TECHNOLOGY

Affiliated to Anna University | Approved by AICTE | Accredited by NAAC  
Tambaram - Velachery Main Road, Santhosapuram, Chennai-600 073.



## DEPARTMENT OF INFORMATION TECHNOLOGY

### LIST OF LABORATORIES

| Sl.no | Name of the Laboratory  | Lab Place                |
|-------|---|--------------------------|
| 01    | <b>RANDY SCHMIDT LAB</b><br>(Computer Lab 1)                      | Main Block ,Second Floor |
| 02    | <b>JAMES GOSLING LAB</b><br>(Computer Lab 2)                      | Main Block ,Second Floor |
| 03    | <b>LICKLIDER LAB</b><br>(Computer Lab 3)                          | Main Block ,Third Floor  |
| 04    | <b>DOUGH CUTTING &amp; MIKE<br/>CAFARELLA</b><br>(Computer Lab 4) | Main Block ,Third Floor  |
| 05    | <b>WINDESK ENGINEERING<br/>SOLUTIONS LAB</b>                      | Main Block ,First Floor  |
| 06    | <b>TOUCHMARK DESCIENCE LAB</b>                                    | Main Block ,First Floor  |
| 07    | <b>SUNITHA SARWAGI PROJECT LAB</b>                                | Main Block ,Third Floor  |
| 08    | <b>LARRY PAGE RESEARCH LAB</b>                                    | Main Block ,Third Floor  |



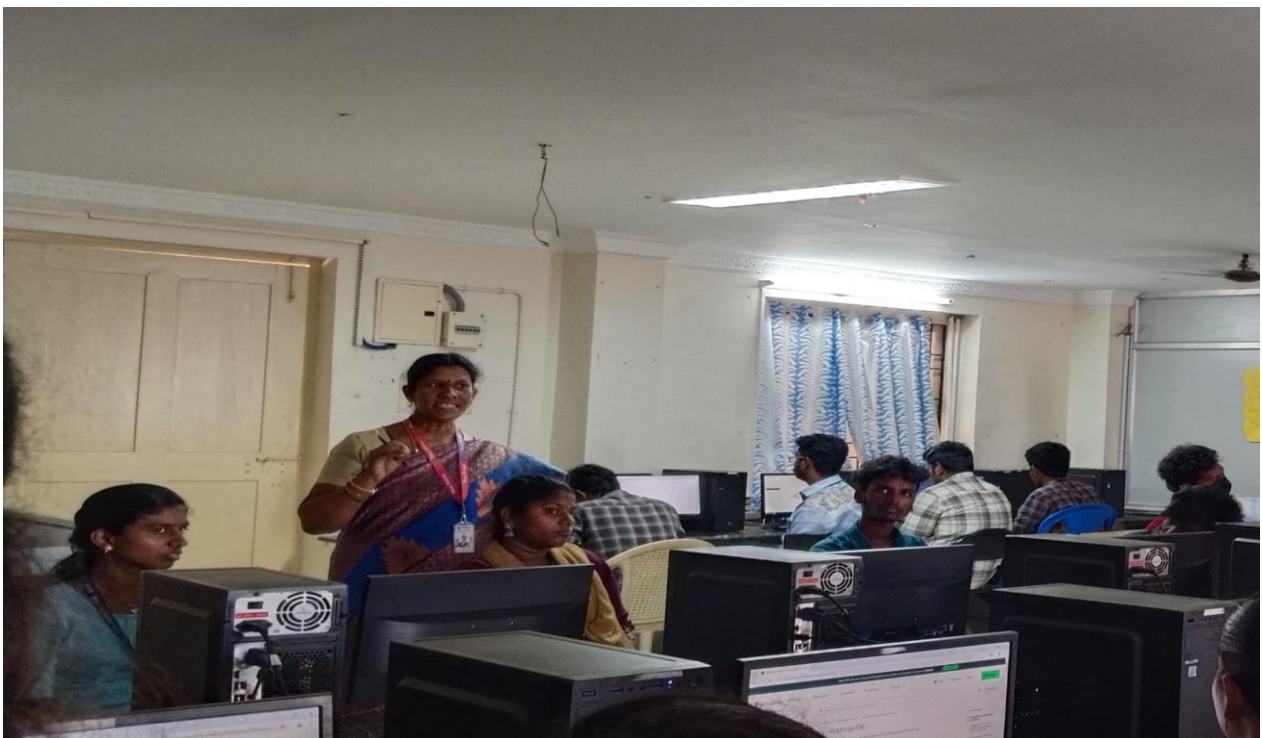
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## DEPARTMENT OF INFORMATION TECHNOLOGY

|   |                      |
|---|----------------------|
| <b>RANDY SCHMIDT LAB (Computer Lab 1)</b> |                      |
| <b>(906 sq. feet)</b>                     |                      |
| Incharge                                  | Ms. E. Jothi (AP/IT) |
| Technical Assistant                       | Ms. M. Abirami       |



The department of Information Technology has well established RANDY SCHMIDT LAB (Computer Lab 1) for doing curriculum labs. This laboratory provides essential facilities to the students to enhance their knowledge Full Stack Web Development, Database Management Systems, Operating Systems Laboratory, Mobile Application Development labs.

### LIST OF EQUIPMENTS:

| S.No | Equipment Name    | Configuration/Specification                                  | Quantity | Remarks                      |
|------|-------------------|--|----------|------------------------------|
| 1    | Desktop Computers | Intel Core i3, 8GB RAM, 1TB HDD, 19" FHD Monitor             | 30       | For programming and research |
| 2    | Servers           | Dual Intel Xeon, 8GB RAM, 1TB SSD, Linux OS(Ubuntu 16.0 LTS) | 1        | Centralized data             |



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|   |                     |  |   |                          |
|---|---------------------|--|---|--------------------------|
|   |                     |  |   | management               |
| 3 | Networking Switches | D-Link 24-Port Gigabit Switch with PoE                   | 2 | For lab networking setup |
| 4 | UPS Systems         | 10 KVA Microtek online UPS with 15.65 AH Amron Batteries | 1 | Power backup for lab     |
| 5 | Printers            | Laser Printer  | 1 | For document printing    |

## SOFTWARE REQUIREMENTS AS PER CURRICULUM:

| S.No | Subject Code | Subject Name                              | Software Requirement                       | No. Of User's |
|------|--------------|---|--|---------------|
| 1    | IT8511       | Full stack web development lab            | Nodejs, MongoDB compass, Angular framework | 30            |
| 2    | U23CS302     | Database Management Systems               | MySQL                                      | 30            |
| 3    | U23CS407     | Operating Systems Laboratory              | C Compiler, Virtual Box                    | 30            |
| 4    | CS8662       | Mobile Application Development Laboratory | Android Studio                             | 30            |



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|   |                           |
|---|---------------------------|
| <b>JAMES GOSLING LAB (Computer Lab 2)</b> |                           |
| <b>(792 sq. feet)</b>                     |                           |
| Incharge                                  | Ms. U. Esakiammal (AP/IT) |
| Technical Assistant                       | Ms. R. Kavitha            |



The department of Information Technology has well established JAMES GOSLING LAB (Computer Lab 2) for doing curriculum labs. This laboratory provides essential facilities to the students to enhance their knowledge Full Stack Web Development, Object Oriented Programming, Embedded Systems with IOT, Object Oriented Software Engineering and Mobile Application Development.

## LIST OF EQUIPMENTS:

| S.No | Equipment Name      | Configuration/Specification                                  | Quantity | Remarks                      |
|------|---------------------|--|----------|------------------------------|
| 1    | Desktop Computers   | Intel Core i3, 8GB RAM, 1TB HDD, 19" FHD Monitor, Windows 11 | 30       | For programming and research |
| 2    | Servers             | Dual Intel Xeon, 8GB RAM, 1TB SSD, Linux OS(Ubuntu 16.0 LTS) | 1        | Centralized data management  |
| 3    | Networking Switches | D-Link 24-Port Gigabit Switch with PoE                       | 2        | For lab networking           |



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|   |             |  |   |                       |
|---|-------------|--|---|-----------------------|
|   |             |  |   | setup                 |
| 4 | UPS Systems | 10 KVA Microtek online UPS with 15.65 AH Amron Batteries | 1 | Power backup for lab  |
| 5 | Printers    | Laser Printer  | 1 | For document printing |

## SOFTWARE REQUIREMENTS AS PER CURRICULUM:

| S.No | Subject Code | Subject Name                                     | Software Requirement                       | No. of User's |
|------|--------------|--|--|---------------|
| 1    | U23CS303     | Object Oriented Programming Lab                  | Java, Net beans                            | 30            |
| 2    | U23CS306     | Object Oriented Programming with Data Structures | Java, Netbeans                             |               |
| 3    | IT8511       | Full stack web development lab                   | Nodejs, MongoDB compass, Angular framework | 30            |
| 4    | CS8691       | Embedded Systems and Iot Lab                     | Aurdino, Raspberrypi                       | 30            |
| 5    | CS8582       | Object Oriented Software Engineering Lab         | Argo UML                                   | 30            |
| 6    | CS8662       | Mobile Application Development Laboratory        | Android Studio                             | 30            |

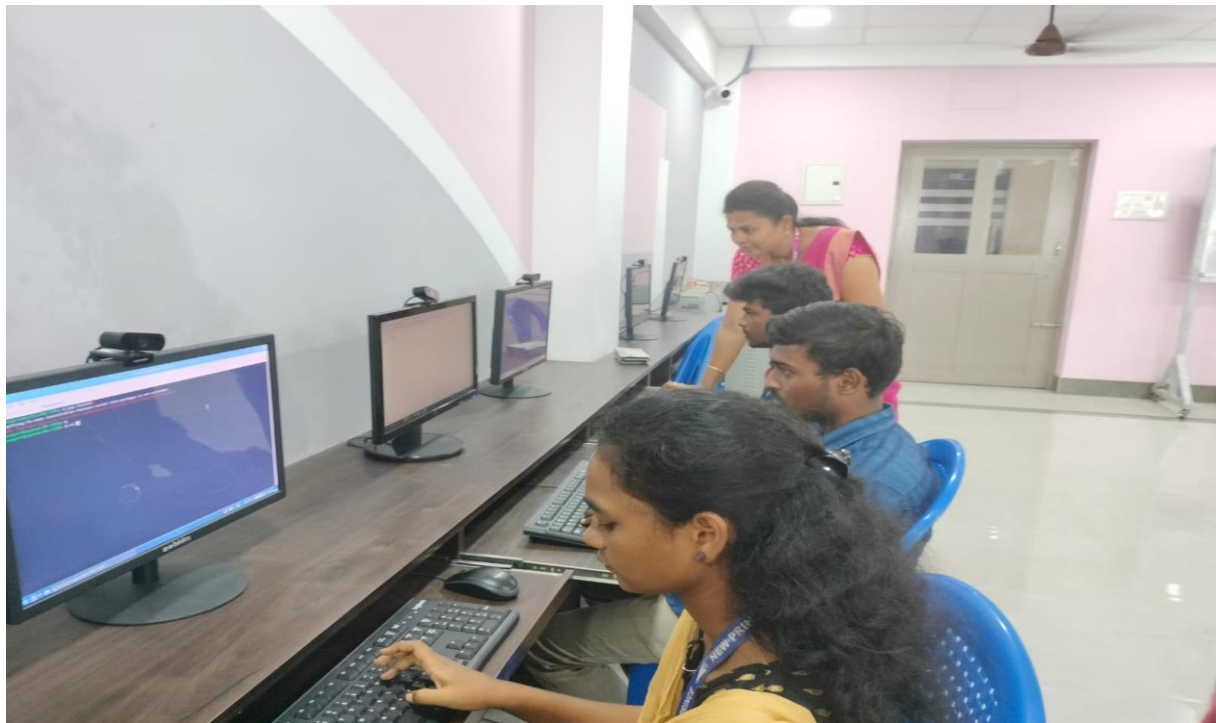


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|                                       |                          |
|---------------------------------------|--------------------------|
| <b>LICKLIDER LAB (Computer Lab 3)</b> |                          |
| <b>(695 sq. feet)</b>                 |                          |
| Incharge                              | Ms. D. Jansirani (AP/IT) |
| Technical Assistant                   | Ms. S. Monika            |



The department of Information Technology has well established LICKLIDER LAB (Computer Lab 3) for doing curriculum labs. This laboratory provides essential facilities to the students to enhance their knowledge in Cloud Computing, Data Science Laboratory, Artificial Intelligence and Machine Learning, Data Warehousing, Cryptocurrencies and Blockchain Technologies.

## LIST OF EQUIPMENTS:

| S.No | Equipment Name    | Configuration/Specification                                  | Quantity | Remarks                      |
|------|-------------------|--|----------|------------------------------|
| 1    | Desktop Computers | Intel Core i5, 8GB RAM, 256GB SSD, 19" FHD Monitor, Linux OS | 30       | For programming and research |
| 2    | Servers           | Dual Intel Xeon, 8GB RAM, 1TB HDD, Linux OS (Ubuntu 16.0)    | 1        | Centralized data             |



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|   |                     | LTS)   |   | management               |
|---|---------------------|--|---|--------------------------|
| 3 | Networking Switches | D-Link 24-Port Gigabit Switch with PoE                   | 2 | For lab networking setup |
| 4 | UPS Systems         | 10 KVA Microtek online UPS with 15.65 AH Amron Batteries | 1 | Power backup for lab     |
| 6 | Printers            | Laser Printer  | 1 | For document printing    |

## SOFTWARE REQUIREMENTS AS PER CURRICULUM:

| S.No | Subject Code | Subject Name   | Software Requirement                                    | No. Of User's |
|------|--------------|--|---|---------------|
| 1    | CCS335       | Cloud computing Laboratory                                 | Netbeans,XAMPP/WAMPP, Server                            | 30            |
| 2    | U23CS304     | Data Science Laboratory                                    | Tools: Python, Numpy, Scipy, Matplotlib                 | 30            |
| 3    | CS3491       | Artificial Intelligence and Machine Learning Laboratory    | Tools: Python, Numpy, Scipy, Matplotlib,Pandas, seaborn | 30            |
| 4    | CCS341       | Data warehousing Laboratory                                | Weka Tool   | 30            |
| 5    | CCS339       | Cryptocurrencies and Blockchain Technologies Laoboratories | Docker,Node.js, Java                                    | 30            |



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## DOUGH CUTTING & MIKE CAFARELLA LAB (Computer Lab 4) (695 sq. feet)

|                     |                                  |
|---------------------|----------------------------------|
| Incharge            | Ms. S. Kanmani Jebaseeli (AP/IT) |
| Technical Assistant | Ms. G. Bhuvaneshwari             |



The department of Information Technology has well established DOUGH CUTTING & MIKE CAFARELLA LAB (Computer Lab 4) for doing curriculum labs. This laboratory provides essential facilities to the students to enhance their knowledge in Computer Networks, Big Data Analytics, Web Essentials, Network Security, Networks and Security and Multimedia and Animation.

### LIST OF EQUIPMENTS:

| S.No | Equipment Name    | Configuration/Specification  | Quantity | Remarks                      |
|------|-------------------|--|----------|------------------------------|
| 1    | Desktop Computers | Intel Core i5, 8GB RAM, 256GB SSD, 19" FHD Monitor, Windows 10, Linux OS | 30       | For programming and research |
| 2    | Servers           | Dual Intel Xeon, 8GB RAM, 1TB  | 1        | Centralized                  |





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|   |                     |  |   |                          |
|---|---------------------|--|---|--------------------------|
|   |                     | HDD, Linux OS (Ubuntu 16.0 LTS)                          |   | data management          |
| 3 | Networking Switches | D-Link 24-Port Gigabit Switch with PoE                   | 1 | For lab networking setup |
| 4 | UPS Systems         | 10 KVA Microtek online UPS with 15.65 AH Amron Batteries | 1 | Power backup for lab     |
| 6 | Printers            | Laser Printer  | 1 | For document printing    |

## SOFTWARE REQUIREMENTS AS PER CURRICULUM:

| S.No | Subject Code | Subject Name                 | Software Requirement                             | No. Of User's |
|------|--------------|------------------------------|--|---------------|
| 1    | CS3591       | Computer Networks            | C/ Java, NS2 Simulator                           | 30            |
| 2    | CCS334       | Big Data Analytics           | Hadoop, Hive                                     | 30            |
| 3    | IT3401       | Web Essentials Laboratory    | Netbeans, Java,XAMPP/WAMPP, Apache Tomcat Server | 30            |
| 4    | CCS354       | Network Security Lab         | Snort, N-stalker, Wireshark                      | 30            |
| 5    | CCS352       | Multimedia and Animation Lab | GIMP, Audacity, Blender                          | 30            |



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## SUNITHA SARWAGI PROJECT LAB

|          |                                |
|----------|--------------------------------|
| Incharge | Dr. S. Subburam (Prof. & Head) |
|----------|--------------------------------|



The project laboratory of the department offers the students, the opportunity to gain valuable hands-on experience with state-of-the-art environment where students become proficient in both the physical and creative skills needed in the field of Information Technology. The Project Laboratory has a key role in promoting practical learning experience, where students develop creative proposals, and execute their final projects



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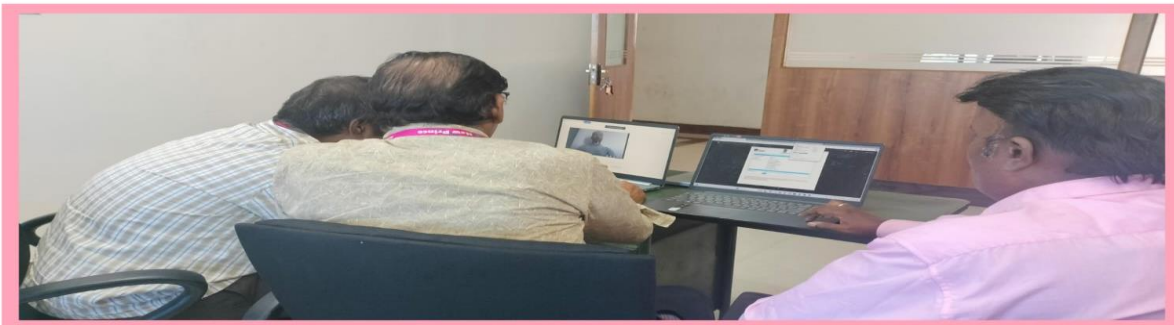
## LARRY PAGE RESEARCH LAB

|          |                                     |
|----------|-------------------------------------|
| Incharge | Dr. S. Siva Subramanian (Professor) |
|----------|-------------------------------------|

Research laboratories are environments where experiments are conducted, requiring high ethical standards, intellectual flexibility, and a vast body of knowledge. Researchers must adhere to ethical behavior, challenge perspectives, and ensure a conducive environment for open criticism and unexpected results to constantly redefine the frontiers of knowledge.

### Objectives:

Conduct innovative research in targeted disciplines, Develop and test new technologies and prototypes, education to students and researchers, Publish research findings in reputable journals and conferences.





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## WINDESK ENGINEERING SOLUTIONS LAB

Windesk Engineering Solutions Lab is a state-of-the-art research and development facility focused on software design, testing, and documenting. This lab enables students, researchers, and engineers to design, develop, and test innovative projects. The primary objective of this Laboratory is to: Advance student's projects and innovation, Foster research and development in software production design and testing, Provide hands-on training and education in various latest technologies, Collaborate with industry partners on joint research projects.





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## TOUCHMARK DESCIENCE LAB

**Touchmark Descience Lab** Solutions is a state-of-the-art research and development facility focused on software design, testing, and documenting. This lab enables students, researchers, and engineers to design, develop, and test innovative projects. The primary objective of this Laboratory is to: Advance student's projects and innovation, Foster research and development in software production design and testing, Provide hands-on training and education in various latest technologies, Collaborate with industry partners on joint research projects and conducting project expo's to students to enhance their innovative knowledge.

