

JERUSALEM COLLEGE OF ENGINEERING AN AUTONOMOUS INSTITUTION

Approved by AICTE, New Delhi, Affiliated to Anna University Chennai, Accredited by NBA, New Delhi and Accredited by NAAC with "A" Grade.

Velachery Main Road, Narayanapuram, Pallikaranai, Chennai, Tamil Nadu - 6001

DEPARTMENT OF INFORMATION TECH

LIST OF LABORATORY AND TECHNICAL SUPPORTING STAFF DETAILS

Sr.		Number	_	Weekly	
No	Laboratory	of students per set up(Batch Size)	•	utilizatio n status(all the courses for which the lab is utilized)	Picture
	Software Development Laboratory 1. JCS1412 Operating Systems Laboratory 2. JCS1711 - Big Data Analytics Laboratory 3. JIT1831 Comprehen sion and Technical skills lab 4. JIT1832 - Project work - Phase II	30		16 Hours/ week	Chennai, Tamili Nadu, India OLO BLOCK, JEFUSALBA COLLEGE OF ENGINEERNO, Narigenopuran, Palikarana, Chennai, Tami Nade Boots, unda Left 3-8600Pt Long 80,037766P OLOTUZ 8,0300 PM GMT +06:30
2	Advanced Data Structure Laboratory 1. JCS1311 Data Structures Laboratory 2. JCS1502 Object Oriented Analysis and Design Laboratory 3. JIT1731		bysicins. 30 mich core	Hours/we ek	Chennai, Tamili Nadu, India OD INCOCK, ERIUSALBA COLLEGE OF ENGNESINO, Narayanaguran, Palikannos, Chennai, Tami Nasio Gooding, India Lang 28,930782 Long 28,930782 OLON (24,53:18 PM GMT +65:50

Project work – Phase I 4. JIT1831 Comprehen sion and Technical skills lab 5. JIT1832 - Project work – Phase II				
Cloud Computing Laboratory 1. JCS1511 Internet Programmi ng Laboratory 2. JIT1612 Artificial Intelligence Laboratory 3. JCS1702 Cloud Computing Laboratory Laboratory		Hardware: Computer Systems: 30 • Intel Core i5,4GB RAM, 500 GB HDD • Monitor• HP LaserJet 1020 Plus Printer. Software: Tomcat server, Net Beans, Turbo C, JDK 1.8, Python 3.6, Windows 10, Virtual box, Googleapp engine, Open stack, Open nebula.	12 Hours/we ek	Chennai, Tamil Nadu, India Main Block, Jestushu College of Enginesenic, Narayanapuram, Palifiaranai, Chemai, Tamil Nado 600129, India Lant 12-85-817 Long 80-2078887 04/01/24 02-46 PM OMT +06-90
Network Laboratory 1. JCS1312 Database Manageme nt Systems Laboratory 2. JCS1411 Networks Laboratory 3. JIT1514 Mobile Application Developme nt Laboratory	30	Hardware: Computer Systems: 30 • Intel Core i5,8GB RAM, 500 GB HDD • Monitor• HP LaserJet M005 Printer. Software: MySQL, Android Studio, Net Beans, Turbo C, JDK 1.8, Python 3.6, Windows 10.	12 Hours/we ek	Chennai, Tamil Nadu, India Man Book, PRIJSALAW COLLEGE OF ENGINEERING, Narayanapuran, Palikarana, Chennai, Tamil Nado, Orocca, Endia Lat 1248/59 Long 88.201606 Long 88.20
Research Laboratory 1. JIT1621 Mini Project 2. JIT1731 Project work – Phase I	30	Systems: 30 • Intel Core	20 Hours/we ek	Chennai, Tamii Nadu, India Terraspace-Saich Agarimena, Yoli Rapeh Nager, Sh Main road, YOF Rajesh Nagar, Palikaranai, Chennai, Tami Naou 600123, Yoda Latt 1246399 Long 86.007987 A0/07/4 62046 M KMT +96/30

Anaconda python, Jupyter	
notebook, OpenCV,	
Tensorflow, XAMPP,	
MongoDB, Eclipse IDE,	
Hadoop Framework,	
Apache Spark, R Studio,	
weka, WordNet, Tonido	
Cloud Server, OpenMP,	
Open nebula, Cloud Sim,	
Audacity, Festival, Wave	
Surfer, MPI Compilers,	
Ubuntu 18.4, Windows	
10.	

6.1 Laboratories maintenance and overall ambiance (10)

Overall Ambience

- · All laboratories are equipped with state of art equipments to meet the requirements of UG courses as per the Curriculum.
- · Laboratory manuals are prepared and are available in soft and hard copy.
- · All laboratories are well furnished.
- · Department has experienced faculty to educate them in all the fields of engineering
- · All laboratories have sufficient natural light, good ventilation with tubes and A/C or fan arrangement.
- · Conditions of chairs/benches are in good condition.
- · Project lab has been provided for the students to carry out their mini and major project work
- · Students are not allowed to enter into the Lab without black shoes.

S.No	Name of the Laboratory	Quality of instruments	Over all ambience	Photo
1	Software Development Laboratory	As per University requirements all equipments in the lab are in good working condition	Good	Chenna, Tamil Nadu, India OLD RECOX, RETURNED COLLEGE OF BNOWEERING, Narryamouran, Pallaceret Tamil Nadu 200724, India Lant 12:486009* GOOGLE On 60:307786* OA(01/24 03:00 PM GMT +05:30

2	Advanced Data Structure Laboratory	As per University requirements all equipments in the lab are in good working condition	Good	Chenna, Tamii Nadu, India ON BLOCK, BRUSALEN COLLEGE OF ENGINEERIN, Narsymapuran, Palinarus Tamii Nadu 200729, India Let 12 48507 Long 80.20781* O4.00724 0310 PM OUT + 05:30
3	Cloud Computing Laboratory	As per University requirements all equipments in the lab are in good working condition	Good	Chennai, Tamil Nadu, India Main Blook, JERIBALEM COLLEGE OF ENGINEERING, Naryymsjoran, Palikarawi Tamik Madu 200728. Indi Lart 12-8454** Google Out/01/24 02-46 PM GMT +05:30
4	Network Laboratory	As per University requirements all equipments in the lab are in good working condition	Good	Chennal, Tamil Nadu, India Man Rico, JERUSALIN COLLEGE OF ENGINEERING, Nanyanspuran, Palkacora Tamil And School, Long 80 201001
5	Research Laboratory	As per University requirements all equipments in the lab are in good working condition	Good	Chennai, Tamili Nadu, India Terraspoce-Salah Aperimente, VPP Repeth Nagor, Sth Main road, VPP Repeth Nagor, Chennai, Tamili Nadio (2013), India Let 12 464 589° Let 12 465 589° Let 06 10 10 10 10 10 10 10 10 10 10 10 10 10

- 1. Vision, Mission, PEO's, PSO's, PO's are displayed in all the laboratories.
- 2. All laboratories are equipped with essential equipment to meet the requirements of the curriculum.
- 3. Safety measures and Do's and Don'ts are displayed in each laboratory.
- 4. Adequate consumables are maintained in laboratories.
- 5. The student login register is maintained in each laboratory.
- 6. The computers are repaired immediately with the support of technicians or external service providers in case of any issues.
- 7. All necessary system updates like Operating system, Microsoft Office, Antivirus update and respective laboratory software are updated every semester and maintained based on requirement.
- 8. Based on the requirements of the student project, FDP, workshop, value-added courses, training program, etc. software are installed, updated and the same is maintained in the system maintenance register.
- 9. The display board provided for displaying the course syllabus and list of experiments for the appropriate laboratory course.
- 10. The laboratories are equipped with Air conditioners and fans for good ventilation and ambiance.
- 11. Proper ventilation and lighting effect are ensured in the laboratories
- 12. The air conditioners in laboratories are serviced and maintained periodically by the powerhouse department.
- 13. The laboratories are also provided with LED lights for better luminance and power saving.
- 14. The laboratories have an adequate number of Furniture, Ergonomics Benches/Chairs to accommodate the students with comfort.
- 15. The laboratories are equipped with the rolling chairs and smooth finish floor tiles for better appearance.
- **16**. LCD projectors are provided in the laboratories for ICT.
- 17. Proper routings are provided for internet access and separate domain to the students.
- 18. Movable sliding keyboard draws are provided for easy access of computer table.
- 19. Each laboratory is equipped with a whiteboard, computer, the Internet, and such other amenities.
- 20. Each laboratory is equipped with First Aid Box and Fire Extinguisher.
- 21. Awareness labels about conserve energy are pasted in laboratories.
- 22. Charts showing the description of basic concepts are displayed in all the laboratories.
- 23. UPS facility is available for all computer systems.
- 24. Wi-Fi with well-equipped high-speed systems within the campus for effective contribution in projects and research.
- 25. Drinking water facilities are available within the laboratories.
- 26. Dustbins for easy disposal of wastes/electronic wastes are made available in all laboratories.
- 27. Laboratory manuals are prepared and are made available in soft and hard copy.
- 28. Laboratories are operated beyond college hours for the convenience of the students.

6.2 Safety measures in Laboratories (10)

S.no	Laboratory Name	Safety Measure
1	Software Development Laboratory	 Specific Safety Rules in the form of Do's and Don'ts are displayed in the Laboratory. Well-trained technical supporting staff is available to monitor the labs at all times. First aid box, Fire extinguishers are kept in the laboratory. Periodical

		 servicing of the lab equipment. Proper earthing has been done for all Electrical Equipment. Maintain a clean and organized laboratory. Avoiding the use of cell phones. Appropriate storage areas Permission denied for pen drives. Sign the log-in register before leaving the lab. Computers should be turned off properly before leaving the lab. Students must remove their footwear before entering to the lab. The student must immediately inform the instructor if there's any defect, error, or damage observed at the computer (Hardware/software)
2	Advanced Data Structure Laboratory	 Specific Safety Rules in the form of Do's and Don'ts are displayed in the Laboratory. Well-trained technical supporting staff is available to monitor the labs at all times. First aid box, Fire extinguishers are kept in the laboratory. Periodical servicing of the lab equipment. Proper earthing has been done for all Electrical Equipment. Maintain a clean and organized laboratory. Avoiding the use of cell phones. Appropriate storage areas Permission denied for pen drives. Sign the log-in register before leaving the lab. Computers should be turned off properly before leaving the lab. Students must remove their footwear before entering to the lab. The student must immediately inform the instructor if there's any defect, error, or damage observed at the computer (Hardware/software)
3	Cloud Computing Laboratory	 Specific Safety Rules in the form of Do's and Don'ts are displayed in the Laboratory. Well-trained technical supporting staff is available to monitor the labs at all times. First aid box, Fire extinguishers are kept in the laboratory. Periodical servicing of the lab equipment. Proper earthing has been done for all Electrical Equipment. Maintain a clean and organized laboratory. Avoiding the use of cell phones. Appropriate storage areas Permission denied for pen drives. Sign the log-in register before leaving the lab. Computers should be turned off properly before leaving the lab. Students must remove their footwear before entering to the lab. The student must immediately inform the instructor if there's any defect, error, or damage observed at the computer (Hardware/software)

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4	Network Laboratory	 Specific Safety Rules in the form of Do's and Don'ts are displayed in the Laboratory. Well-trained technical supporting staff is available to monitor the labs at all times. First aid box, Fire extinguishers are kept in the laboratory. Periodical servicing of the lab equipment. Proper earthing has been done for all Electrical Equipment. Maintain a clean and organized laboratory. Avoiding the use of cell phones. Appropriate storage areas Permission denied for pen drives. Sign the log-in register before leaving the lab. Computers should be turned off properly before leaving the lab. Students must remove their footwear before entering to the lab. The student must immediately inform the instructor if there's any defect, error, or damage observed at the computer (Hardware/software)
5	Research Laboratory	 Specific Safety Rules in the form of Do's and Don'ts are displayed in the Laboratory. Well-trained technical supporting staff is available to monitor the labs at all times. First aid box, Fire extinguishers are kept in the laboratory. Periodical servicing of the lab equipment. Proper earthing has been done for all Electrical Equipment. Maintain a clean and organized laboratory. Avoiding the use of cell phones. Appropriate storage areas Permission denied for pen drives. Sign the log-in register before leaving the lab. Computers should be turned off properly before leaving the lab. Students must remove their footwear before entering to the lab. The student must immediately inform the instructor if there's any defect, error, or damage observed at the computer (Hardware/software)

Table B.6.3

6.3 Project laboratory (20) Project Laboratory

Project laboratory is to provide a practical and creative space for faculty and students with various software. This Laboratory offers the opportunity to gain valuable hands-on experience with state-of-the-art environment where the faculty members and students become proficient in both the physical and creative skills needed in the field of Information Technology.

- Students and faculty members are encouraged to utilize additional facilities available in the laboratories.
- Students are encouraged to do mini-projects with the facilities available in the laboratories.
- The department library is equipped with books, NPTEL videos and project reports to assist students in their research projects.
- Project laboratory can be utilized after working hours for the benefit of students, faculty members and research scholars.
- Students are motivated to access periodical magazines and e-journals related to electronics and communication available in the library to gain deep insights to help them in their areas of interest.
- Students are trained to incorporate transferable skills for redesigning the experiments.
- Video lectures are given to the students to demonstrate all experiments along with step-by-step explanations.
- Students are encouraged to do their experiments using the Virtual Labs platform provided by the

Indian Institute of Technology. The following table shows the available facilities in Project laboratory.

The following table B.6.4 shows the available facility and utilization for the project laboratory.

S.no	Laborator	Name of the Facilities	Utilization
1	y Name Project Laboratory	Hardware: Computer Systems: 30 • Intel Core i7,32GB RAM, 500 GB HDD • Monitor• HP Laser MFP1136-1139 1188 Printer – 1. Software: Android Studio, Python 3.6, JDK 1.8, Globus Toolkit, MySQL, Net Beans, Visual Studio 2017, Anaconda python, Jupyter notebook, OpenCV, Tensorflow, XAMPP, MongoDB, Eclipse IDE, Hadoop Framework, Apache Spark, R Studio, weka, WordNet, Tonido Cloud Server, OpenMP, Open nebula, Cloud Sim, Audacity, Festival, Wave Surfer, MPI Compilers, Ubuntu 18.4, Windows 10.	Utilized for Project work (VIII semester), mini projects (VI semester) Science day /hackathon projects Research activities for faculty members Conducting value added courses and workshops Conducting active learning activities Lab demonstration

Table B.6.4