



SYED AMMAL ENGINEERING COLLEGE

(An ISO 9001: 2015 Certified Institution)

Dr. E.M. Abdullah Campus, Ramanathapuram – 623 502



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (Accredited by NBA)

OPEN SOURCE LABORATORY (OSS LABORATORY)

Lab Incharge: Mr. B. John Samuel

Technician: Ms. B. Ramathilagam

Major Equipment:

- 1) Dell Optiplex 3000 Core i3 Intel H61 MB 4 GB DDR3 RAM 320 GB HDD 18.5" LCD Dell Monitor Dell K/B & Mouse
- 2) Intel Core i5 9th Gen, Asus prime H310M-E M/B, 16 GB DDR4 RAM, Seagate 1TB HDD, Nvidia GT710 2GB DDR3 Graphics card, Dell 18.5" Monitor, HP USB KB & Mouse

Cost of the Major Equipment: Rs. 17,26,069/-

Area of the Laboratory: 197.70 Sq. m

Description:

- OSS Laboratory has 66 computers of various requirements for the curriculum and academic purposes are installed.
- In that 33 computers are very advanced computers which is helpful to run complex exercises too.
- All the machines have Windows 10 installed on it with preinstalled Windows defender services for the security purposes. All the Computers are installed with required software that are needed to conduct the regular scheduled laboratories.
- This Lab is equipped with good Air-conditioning systems.
- As well as it has UPS power supply for the unhindered power supply. Every system is numbered with unique number for the identification.
- Student system ratio is 1:1 so every student can work with no interruptions.
- A student log book is maintained to know the details about student and computer details in the laboratory.
- This lab is equipped with a LCD projector for providing demonstration classes.
- Good structured cabling is done throughout the lab.
- Carbon di oxide Fire Extinguisher is deployed. As the Computers and its components are under class 'C' fire accident types this CO₂ gas extinguisher is deployed.
- Provided MCB for Every row Computers separately to protect the mother boards and other computer components from the short circuits and power overload.
- Proper earthing is done to avoid the electrical shocks for humans as well as heavy voltage flow in the computer components and circuits.
- All Systems have UPS power supply to avoid sudden power failures. Sudden failures may corrupt and damage the internal parts of the computer.
- Network switches are kept in the racks under good air conditions to avoid the network problems and overheating issues.
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The Following courses are conducted in the Laboratory for the academic year 2019-2020

CS8261	C Programming Laboratory	2 nd Semester
CS8582	Object Oriented Analysis and Design Laboratory	5 th Semester
CS8661	Internet Programming Laboratory	6 th Semester
CS8662	Mobile Application Development Laboratory	6 th Semester
CS8611	Mini Project	6 th Semester
CS8602	Compiler Design	6 th Semester
CS6711	Security Laboratory	7 th Semester



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CORE LABORATORY

Lab Incharge: Mr. G. Saravanakumar

Technician: Mr. K. Senthil Kumar

Major Equipment:

- 1) Dell Optiplex 3000 Core i3 Intel H61 MB 4 GB DDR3 RAM 320 GB HDD 18.5”
LCD Dell Monitor Dell K/B & Mouse
- 2) Lenovo 2.93 Core 2 due Processor, 320GB HDD, 2 GB DDR2 RAM, Intel G41
M/B, Lenova monitor 18.5”,K/B, mouse

Cost of the Major Equipment: Rs. 14,84,960/-

Area of the Laboratory: 105.69 Sq. m

Description:

- Core Laboratory has 66 computers of various requirements for the curriculum and academic purposes are installed.
- All the machines have Linux (opensuse 13.2) installed on it. As linux is an open source and virus free this gives very secure environment. All the Computers are installed with required software that are needed to conduct the regular scheduled laboratories.
- This Lab is equipped with good Air-conditioning systems.
- As well as it has UPS power supply for the unhindered power supply. Every system is numbered with unique number for the identification.
- Student system ratio is 1:1 so every student can work with no interruptions.
- A student log book is maintained to know the details about student and computer details in the laboratory.
- This lab is equipped with a LCD projector for providing demonstration classes.
- Good structured cabling is done throughout the lab.
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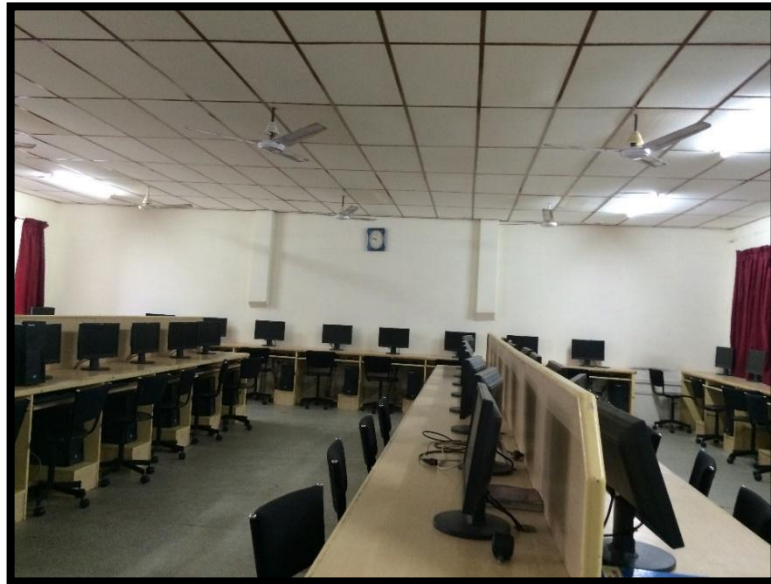
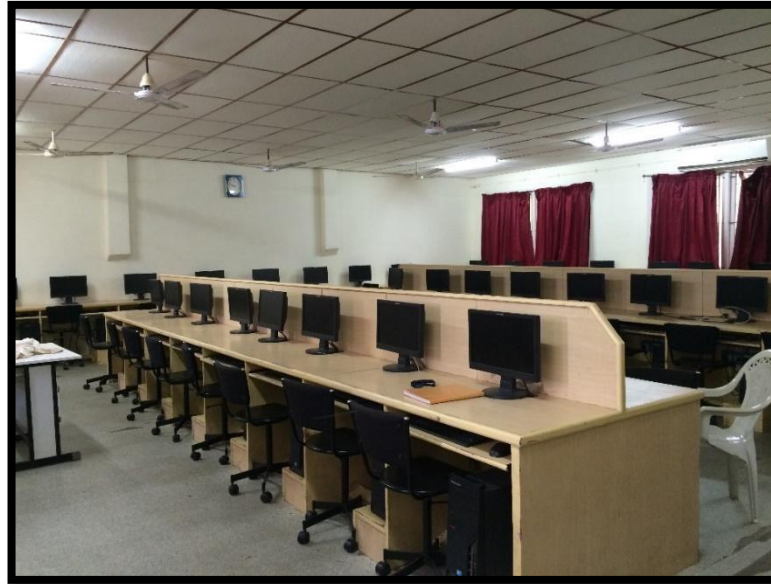
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The Following courses are conducted in the Laboratory for the academic year 2019-2020

CS8383	Object Oriented Programming Laboratory	3 rd Semester
EC8381	Fundamentals of Data Structures in C Laboratory	3 rd Semester (ECE)
CS8461	Operating Systems Laboratory	4 th Semester
CS8481	Database Management Systems Laboratory	4 th Semester
CS8383	Object Oriented Programming Laboratory	5 th Semester (EEE)
CS6712	Grid and Cloud Computing Laboratory	7 th Semester



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PROGRAMMING LABORATORY

Lab Incharge: Mr. J. Ragaventhiran

Technician: Mr. J. Antony Came Roon

Major Equipment:

- 1) Thinkcentre M70e (4089 A13) Intel core 2 Duo @ 2.93 Ghz Processor, Intel G41 Chipset Motherboard, 2 GB DDR3 @1066Mzh RAM, 320 GB @ 7200 Rpm SATA HDD, Lenovo Keyboard, Optical Mouse, Gigabit Ethernet card/Micro Tower Cabinet 18.5” Dell LCD Color Monitor

Cost of the Major Equipment: Rs. 14,85,000.00/-

Area of the Laboratory: 105.69 Sq. m

Description:

- Programming Laboratory has 66 computers of various requirements for the curriculum and academic purposes are installed.
- All the computers are installed with Windows 7 Operating system installed on it.
- This Lab is equipped with good Air-conditioning systems.
- As well as it has UPS power supply for the unhindered power supply. Every system is numbered with unique number for the identification.
- Student system ratio is 1:1 so every student can work with no interruptions.
- A student log book is maintained to know the details about student and computer details in the laboratory.
- This lab is equipped with a LCD projector for providing demonstration classes.
- Good structured cabling is done throughout the lab.
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- Emergency Exit is provided in cases of any unexpected accidents.
- SMADAV Antivirus is deployed in every computer for the protection against spyware, malware, virus, worms etc.
- McAfee Internet security is installed on every computer for the live security and monitoring system.



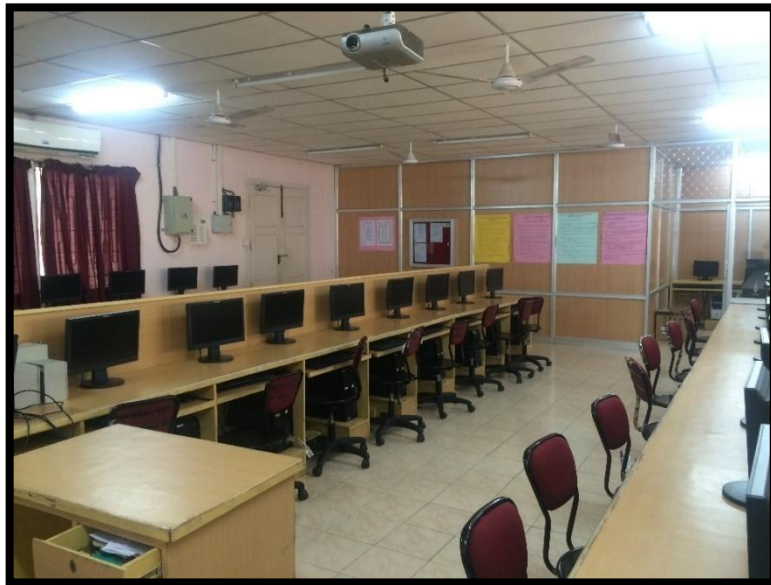
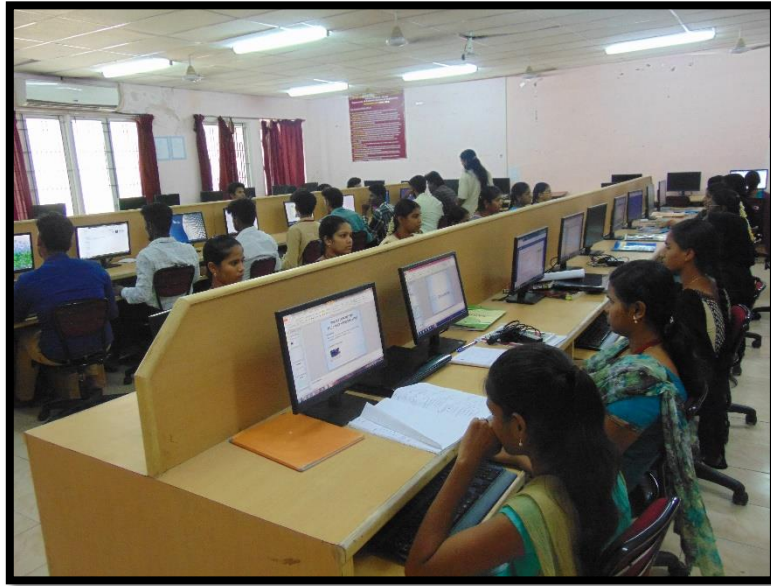
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The Following courses are conducted in the Laboratory for the academic year 2019-2020

GE8161	Problem Solving and Python Programming Laboratory	1 st Semester
CS8381	Data Structures Laboratory	3 rd Semester
CS8581	Networks Laboratory	5 th Semester
CS6811	Project Work	8 th Semester



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RESEARCH LABORATORY

Lab Incharge: Dr. T. B. Siva Kumar

Technician: Ms. B. Ramathilagam

Major Equipment:

- 1) AMD FX-6300-6 Core (3.3 GHz/14mb cache/AM3+) Asus M/B 1TB HDD 8GB 1333MHz RAM, Cori ATX Cabinet, 18.5" Dell Monitor, Logitech K/B & Mouse

Cost of the Major Equipment: Rs. 6,71,025/-

Area of the Laboratory: 72.69 Sq. m

Description:

- The Research Laboratory has 20 advanced computers and it is installed with software which are helpful to do the research work and project for both students and faculties.
- These laboratories have Windows 7 and Linux (ubuntu 14.04 & 16.04) operating systems with licensed software's which is helpful for the students and faculties to do their research work in wide range of domains.
- This Lab is equipped with good Air-conditioning systems.
- As well as it has UPS power supply for the unhindered power supply. Every system is numbered with unique number for the identification.
- Good structured cabling is done throughout the lab.
- Carbon di oxide Fire Extinguisher is deployed. As the Computers and its components are under class 'C' fire accident types this CO₂ gas extinguisher is deployed
- Provided MCB for Every row Computers separately to protect the mother boards and other computer components from the short circuits and power overload.
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- Emergency Exit is provided in cases of any unexpected accidents.
- SMADAV Antivirus is deployed in every computer for the protection against spyware, malware, virus, worms etc.
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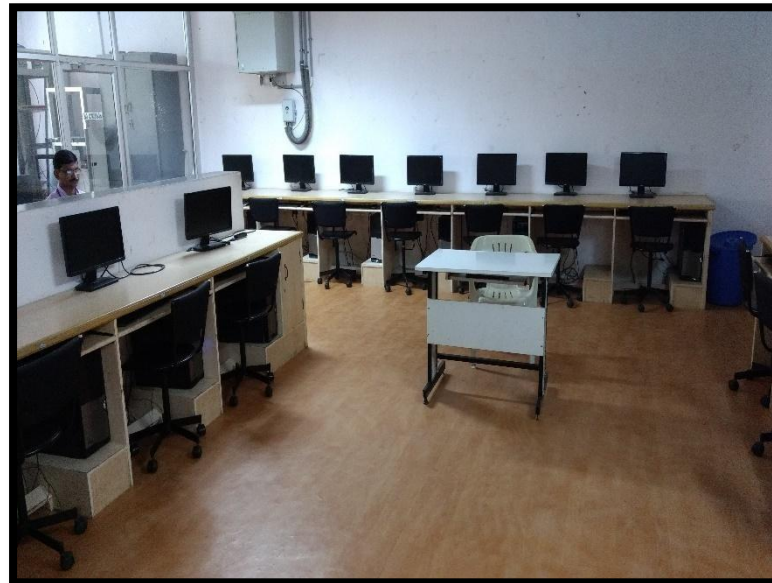
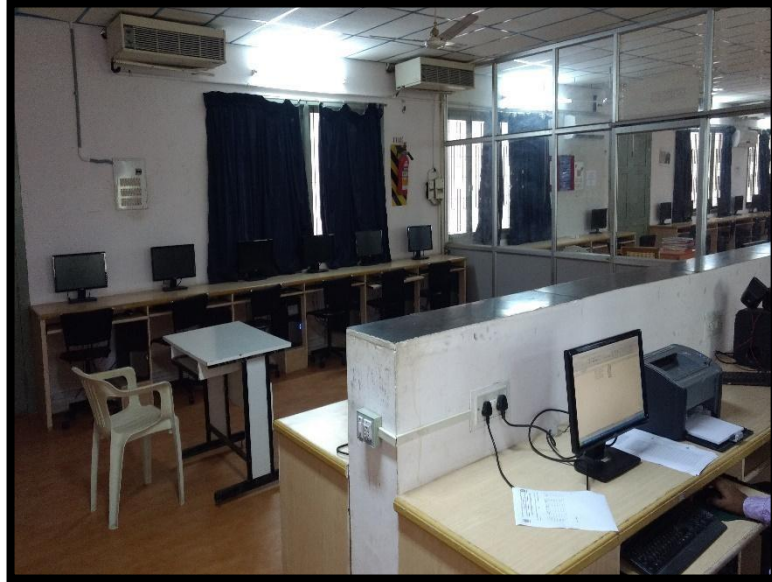
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COMMUNICATION & SOFT SKILLS LABORATORY

Lab Incharge: Mr. M. H. Anand Babu

Technician: Mr. R. Katturajan

Major Equipment:

- 1) Think Centre M58E(7298AJ5), Intel core 2 Duo @2.93GHz Processor, Intel G41 Chipset Motherboard, 2GB DDR-2 @ 1066 MHz RAM, 320 GB @ 7200 SATA Hard Disk, Keyboard, Optical Mouse, Gigabit Ethernet Card, Micro Tower cabinet, 18.5” TFT color Monitor (Lenovo)
- 2) Think centre M70E (4089A13), Intel Core 2 Duo @ 2.93 GHZ, Processor, Intel G41 Chipset Motherboard, 2GB DDR-3@1056Mhz RAM, 320 GB 7200 RPM SATA HARD DISK, Keyboard, Optical Mouse, Gigabit Ethernet Card, Micro Tower Cabinet, 18.5” TFT color Monitor (Lenovo)

Cost of the Major Equipment: Rs. 13,15,025/-

Area of the Laboratory: 149.26 Sq. m

Description:

- The Communication Laboratory has 66 and it is installed with software which are helpful increase the communication skills for both students and faculties.
- These laboratories have Windows XP operating systems with Globearena software's which is helpful for the students and faculties to learn and demonstrate their communication skill.
- This Lab is equipped with good Air-conditioning systems.
- As well as it has UPS power supply for the unhindered power supply. Every system is numbered with unique number for the identification.
- A student log book is maintained to know the details about student and computer details in the laboratory.
- Good structured cabling is done throughout the lab.
- Carbon di oxide Fire Extinguisher is deployed. As the Computers and its components are under class 'C' fire accident types this CO₂gas extinguisher is deployed
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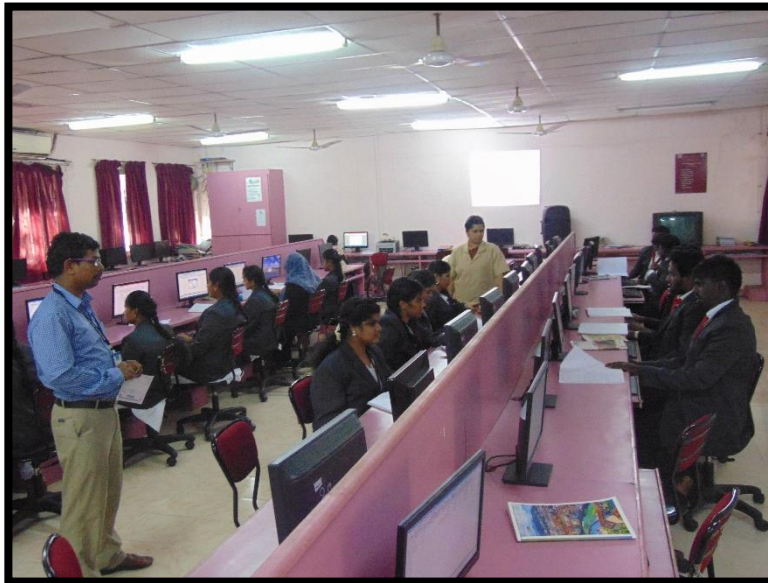
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- McAfee Internet security is installed on every computer for the live security and monitoring system.



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HS8381	Interpersonal Skills/Listening and Speaking	3 rd Semester
HS8581	Professional Communication	5 th Semester
BA5111	Spoken Written Communication	1 st Semester (MBA)
BA8211	Data Analysis and Business Modeling Lab	2 nd Semester (MBA)
HS8461	Advanced Reading and Writing Lab	4 th Semester



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PROJECT LABORATORY - 1

Lab Incharge: Mr. Dr. A. Kanmani

Technician: Ms. M. Suganya

Major Equipment:

- 1) Dell Optiplex 390 DT – N Sereis Base intel core i3 2100 Processor intel H61 Chipset
Mother Board 2GB DDR3 RAM , 320 GB SATA HDD Dell K/B & Optical Mouse Dell
18.5” TFT Monitor

Cost of the Major Equipment: Rs. 4, 14, 000/-

Area of the Laboratory: 106.94 Sq. m

Description:

- The Project Laboratory-1 has 18 advanced computers and it is installed with software which are helpful to do the project works.
- All the machines are installed with Windows 7 Operating system installed on it.
- Innovative projects are displayed in this laboratory. Students doing their projects can go through this displayed projects and get new ideas.
- This Lab is equipped with good Air-conditioning systems.
- As well as it has UPS power supply for the unhindered power supply. Every system is numbered with unique number for the identification.
- Good structured cabling is done throughout the lab.
- Carbon di oxide Fire Extinguisher is deployed. As the Computers and its components are under class ‘C’ fire accident types this CO₂ gas extinguisher is deployed
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PROJECT LABORATORY - 2

Lab Incharge: Mrs. G. Sharmila

Technician: Ms. M. Suganya

Major Equipment:

- 1) Lenovo Desktop Model: 10KXX002LIH, Intel i3-6th gen, 4GB DDR3 RAM, 1 TB HDD, Lenovo K/B, Mouse & 20" Monitor

Cost of the Major Equipment: Rs. 10, 87, 200/-

Area of the Laboratory: 153.25 Sq. m

Description:

- The Project Laboratory-2 has 36 advanced computers and it is installed with software which are helpful to do the project works.
- All the machines are installed with Windows 7 Operating system installed on it.
- Innovative projects are displayed in this laboratory. Students doing their projects can go through this displayed projects and get new ideas.
- This Lab is equipped with good Air-conditioning systems.
- As well as it has UPS power supply for the unhindered power supply. Every system is numbered with unique number for the identification.
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