SYED AMMAL ENGINEERING COLLEGE
AN AUTONOMOUS INSTITUTION
Accredited with 'A+' Grade by NAAC
Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai | Recognized Under section 2 (f) and 12 B of the UGC Act 1956 | An ISO 9001:2015 Certified Institution
NBA Accredited UG Courses : CSE, ECE, EEE & MECH | Anna University Approved Research Centres : EEE, CSE, MECH & ECE
Dr. E.M. Abdullah Campus, Ramanathapuram - 623 502, Tamil Nadu. | Ph: 04567 - 222 234, Mobile : 94873 04000, 84893 04000, 87548 88877
E-mail : office@syedengg.ac.in, saec@syedengg.ac.in | Web : www.syedengg.ac.in

AI (Artificial Intelligence) LABORATORY

Lab Incharge: Mr. R. Gautham Praveen
Technician: Ms. B. Ramathilagam

Major Equipment:
Hp Intel Core I7 12 th Gen, 1TB HDD, 32GB DDR 4 Ram, Nvidia 4GB Graphics Card, 1 TB HDD, HP 19'5 Monitor, HP KB & Mouse
Cost of the Major Equipment: Rs. 43,50,000/-
Area of the Laboratory: 88.628 Sq. m

Description:

- AI Laboratory has 60 computers of various requirements for the curriculum and academic purposes are installed.
- In that all the 60 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 CO_2gas 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.
- Emergency Exit is provided in cases of any unexpected accidents.

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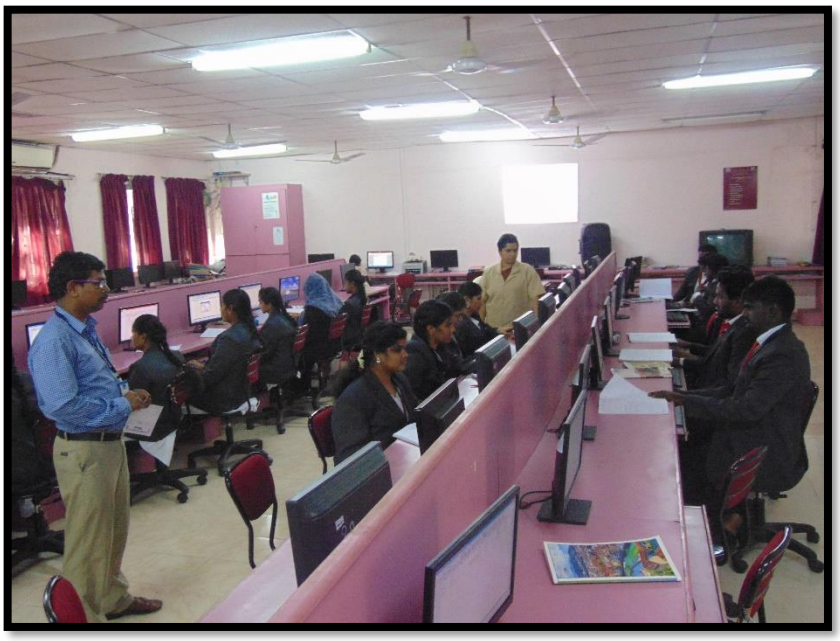

The Following courses are conducted in the Laboratory for the academic year 2024 - 2025

CCS370	UI/UX Laboratory	5th Semester
CCS347	Game Development Laboratory	5th Semester
AD3511	Deep Learning Laboratory	5th Semester
CS3591	Computer Network Laboratory	5th Semester
CCS334	Big Data Analytics Laboratory	5th Semester
CCS333	Augmented Reality/Virtual Reality Laboratory	5th Semester

OPEN SOURCE LABORATORY (OSS LABORATORY)

Lab Incharge: Mr. B. John Samuel
Technician: S. Mohamed Ibrahim & Mrs. R. Poorani Devi

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. 17,82,990/- (Rs,7,51,740/- + Rs. 10,3,250/-)
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 CO_2gas 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.
- Emergency Exit is provided in cases of any unexpected accidents.

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GE3361	Professional Development	3rd Semseter
CS3361	Data Science Laboratory	3rd Semseter
CS3381	Object Oriented Programming Laboratory	3rd Semseter
CS3691	Embedded Systems and IOT Laboratory	5th Semseter
CS3501	Compiler Design Laboratory	5th Semseter
CCS332	App development Laboratory	5th Semseter
OCS352	IOT Laboratory	7th Semseter

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PROGRAMMING LABORATORY

Lab Incharge: Mrs. M. Suganya
Technician: Mr. M. DhivanDul Hag

Major Equipment:

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. 15,42,024.00/-
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.
- Carbon di oxide Fire Extinguisher is deployed. As the Computers and its components are under class 'C' fire accident types this CO_2 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.
- 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.
- McAfeee Internet security is installed on every computer for the live security and monitoring system.

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CS3311	Data Structures	3rd Semester
24GE101P	Problem Solving using c Programming	1st Semester
AD3381	Database and Design Management	3rd Semester

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PROJECT LABORATORY

Lab Incharge: Mrs. K. Meenaloshini
Technician: Mr. Naveen Kumar

Major Equipment:

1) Lenova Desktop Model: 10KXX002LIH, Intel i3-6th gen, 4GB DDR3 RAM, 1 TB HDD, Lenova 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 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 10 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 CO_2 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.
- 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.

Sample Projects:

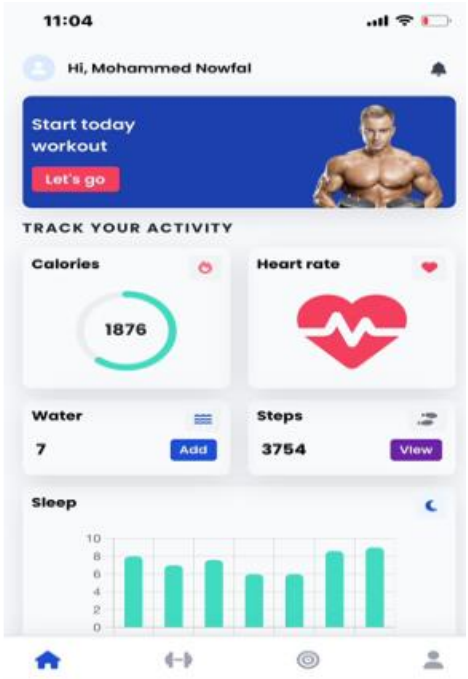
Title: HYDRA BUG

Abstact: Lake cleaning machines will be employed in surface water bodies such as lakes and ponds where there is an accumulation of waste, such as plastics. They are designed to collect and remove waste from the water surface. The integrated systemincorporates the usage of AI and IoT technology, providing flexibility to monitor and control the entire process. This

machine will not only benefit humans by cleaning water for everyday usage but also protect the lifetimes of aquatic animals.

Title: Fitness Optimizer

Abstact: Introducing an AI-driven fitness app tailored to individual health conditions, providing personalized diet plans, and workout routines. This innovative app monitors user activity, corrects errors to improveworkout effectiveness and posture. Through continuous learning, it evolves alongside users, optimizing fitness outcomes, and heralding a new era in personalized fitness management.



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Title: Smart Academic Monitoring and Attendance System for Parents

Abstract: An innovative application is designed to empower parents by providing seamless, real-time access to their children's academic performance and daily attendance records. With a secure login system, parents can monitor their child's progress, track attendance, view grades, and receive important updates in a visually engaging and user-friendly interface. This app offers a comprehensive, all-in-one solution for staying connected to your child's education, enabling proactive involvement and timely support.

Faculty Startup #1 *qoresys - Imba,* a virtual personal assistant for the education sector like Siri, Ok Google to solve the problems in the Education Sector. Teachers benefit from streamlined lesson planning and classroom management tools, while parents receive real-time updates and engagement opportunities. Imba integrates with educational tools and supports multilingual and special needs adaptations, making it an essential companion for a more effective and inclusive educational experience.