SRI MUTHUKUMARAN INSTITUTE OF TECHNOLOGY

APPROVED BY THE AICTE, AFFILIATED TO ANNA UNIVERSITY

Accredited by NAAC B+ Grade | ANNA UNIVERSITY COUNSELLING CODE 1218

Sri Muthukumaran Institute of Technology (SMIT) is a Self financing Engineering college located in the Kundrathur main road at a distance of around 15 km from the Chennai city. The Institution is approved by AICTE, New Delhi & affiliated to Anna University, Chennai. The Institute has got recognition from UGC under 2(f) and 12(B) scheme. The Institution is accredited by National Assessment and Accreditation Council (NAAC) in the year 2018 and participated in the National Institute of Ranking Framework (NIRF) process. Our college has also participated in the All India Survey on Higher Education (AISHE).

Monthly News Letter
August, 2023
Issue - 1

Sri Muthukumaran Institute of Technology

(Approved by AICTE, Accredited by NBA & Affiliated to Anna University, Chennai-600 025, INDIA)
Chikkarayapuram, Near Mangadu, Chennai-600 069. Anna University Counselling Code : 1218

Monthly News Letter

Chairman
Thiru. A.N. Radhakrishnan

Chairman Message

Chairman
Thiru. A.N. Radhakrishnan

In Sri Muthukumaran Institute of Technology, we strongly believes in Swamy Vivekananda's philosophy that Education is the manifestation of perfection already in man, and accordingly set our motto as "Transformation through Education". In our college, a strong blend of state-of-the-art-Infrastructure and committed & competent human resource is cultivated to impart Engineering and Management Education with thrust on creativity and social responsibility. It is assured that every one of you who joins our Institution will be undergoing a journey of transformation from a normal individual into a whole-some-whole individual as an asset to the world.

Chairperson Message

Chair Person and
Managing Trustee
Mrs. Gomathi Radhakrishnan

We welcome everyone to the temple of Education 'Sri Muthukumaran Institute of Technology'. In our college we have created an educational eco system to feed and challenge the innovative and creative minds of Millenium students. In line with the thinking of Great Visionary Dr. A.P.J. Abdul Kalam, we strive to provide Education as an endless journey through knowledge and enlightenment. To quote him, "When learning is purposeful creativity blossoms, when creativity blossoms Thinking emanates. When thinking emanates, Knowledge is fully lit. When knowledge is lit, Economy flourishes." In Sri Muthukumaran Institute of Technology, we assure you that education which is intricately intertwined with creativity, thinking, knowledge and prosperity.

Principal Message

Principal
Dr. K. Somasundaram

I want to extend a warm welcome to Sri Muthukumaran Institute of Technology who has joined our institution. You have made an excellent choice in selecting our institution, known for its commitment to academic excellence, innovation, and holistic learning methodologies.

Engineering is a challenging field, and it requires perseverance and determination. Embrace new challenges, seek out opportunities for growth and foster a spirit of collaboration and camaraderie among your peers. Remember that success is not achieved overnight, but through consistent efforts and a strong work ethic.

Our esteemed faculty members are the backbone of our Institution. Your dedication, expertise, and passion for teaching inspire our student's community every day. I urge you to continue to ignite the spark of curiosity in our students, challenge their intellect, and instill in them a lifelong love for learning. Your guidance and mentorship play a vital role in shaping the engineers of tomorrow.

In the ever-evolving field of engineering, it is essential for us to stay abreast of the latest advancements and industry trends. Therefore, we will continue to enhance our curriculum, incorporating emerging technologies and interdisciplinary approaches. We will foster industry-academia collaborations, internships, and research opportunities to bridge the gap between theoretical knowledge and practical application.

Moreover, our commitment to holistic development remains unwavering. Alongside academic pursuits, we encourage you to engage in extracurricular activities, clubs and societies that align with your interests. These experiences will help you develop vital skills such as teamwork, leadership, and effective communication, preparing you for the multifaceted challenges of the professional world.

I must also emphasize the importance of maintaining a healthy work-life balance. While we strive for excellence, it is crucial to take care of our physical and mental well-being. Seek support from our counseling services, engage in recreational activities and nurture meaningful relationships within our college community. Remember, success is not only measured by academic achievements but also by personal growth and fulfillment. Embrace the diversity of thoughts, perspectives and backgrounds that make our college vibrant and enriching.

I have full reliance in the collective potential of our students, faculty, and staff to create a positive impact on society. Let us work hand in hand to cultivate a learning environment that nurtures innovation, critical thinking, and ethical practices. Together, we can inspire and transform lives through engineering.

May your efforts be met with success and may you emerge as confident and competent professionals ready to contribute to the betterment of our world.

Vice Principal Message

Vice Principal
Dr. V. Anitha

Welcome to a new academic year filled with possibilities and growth. As Vice Principal, I encourage you to embrace learning with enthusiasm and determination. We strive to provide a supportive environment that fosters both academic achievements and personal development. Collaborate, challenge yourselves, and explore diverse opportunities. Remember, success is a journey, not a destination. Let's work together to make this year remarkable. Here's to embracing knowledge and building a brighter future.

In the pursuit of academic excellence, we strive to provide a holistic education that goes beyond textbooks. We are committed to nurturing critical thinking, problem-solving, and communication skills among our students. By equipping them with these essential tools, we empower them to face the challenges of an ever-evolving world.

As Vice Principal, I am dedicated to promoting an atmosphere of openness and inclusivity.
To achieve these aspirations, it is essential that we stay at the forefront of educational innovation. We will continuously adapt our teaching methodologies to incorporate the latest advancements, ensuring that our students are well-prepared for the demands of the modern professional landscape.

In conclusion, I invite each member of our college to actively participate in the realization of this vision. Let us work hand in hand to create an institution that not only imparts knowledge but also nurtures character, compassion, and a lifelong learning. Together, we will sculpt a brighter future—one that radiates with the achievements of our students and the collective pride of being part of this esteemed institution.

In a world inundated with information, we want to pause and express profound gratitude to our exceptional newsletter coordinators. Your tireless dedication to crafting each edition, your keen eye for relevant and engaging content, and your skill in fostering connections within our community are truly remarkable. You transform mere updates into vibrant narratives that inspire and inform. Your commitment is the driving force behind our well-informed members. Thank you for your invaluable contributions, which play an integral role in our collective growth and success.

Contents

The

Department of Civil Engineering

inaugurated

ECO CLUB

on

16th August, 2023

for

Civil Engineering Students

at

Mechanical Auditorium, Dept of Mechanical Engineering.

Coordinated by,

Mr. R. Manikandan HOD, Dept of Civil Engineering.

Mr. R. Manikandan

ECO CLUB stands for

E- Everyone to save energy

C- Communicate our eco policy to our friends, family and our community.

O- Our environment needs all our help

C- Care for others and our environment

L- Love nature

U- Use less energy

B- Better Environment, Better tomorrow

VISION:

1. Work towards environmental alertness, Sustainability, Community sensation, Youth mobilization, better and healthy surrounding.
2. This club will be a center of excellence for Environmental protection and practice oriented research to ensure the contribution of natural resource conservation including soil, water, pasture and forestry.

OBJECTIVES:

1. To motivate the students to keep the surrounding green and clean.
2. To develop skills of observation, experimentation, survey, recording, analyses, reasoning needed for conserving environment through activities.
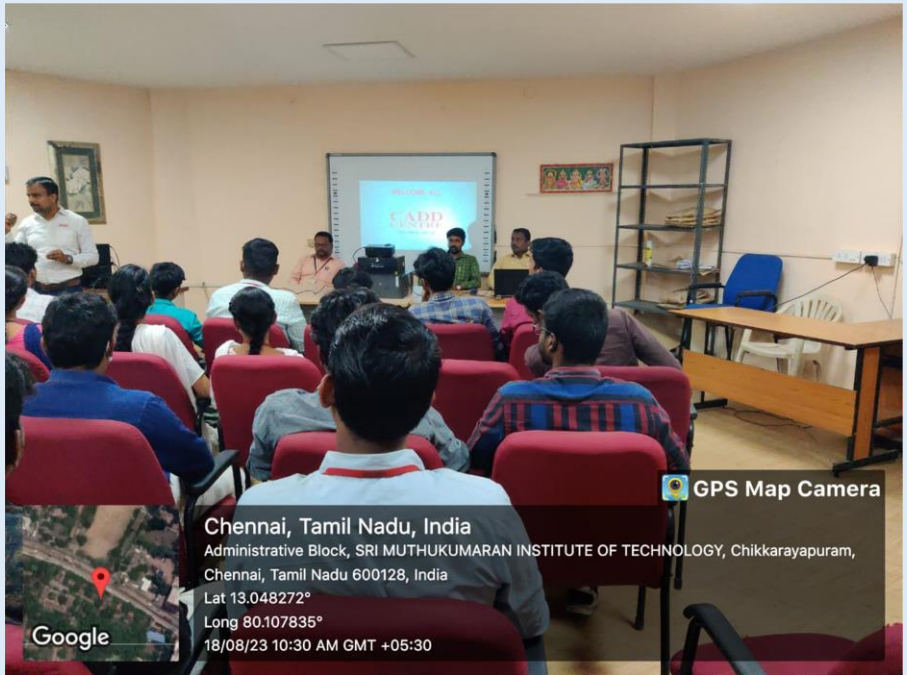3. To create awareness regarding environmental issues and sensitivities to resolve it.

ECO CLUB ACTIVITIES:

1. Organise clean up drives.
2. Action based activities like Sapling plantation.
3. Mobilize action against environmentally unsound like a garbage disposal.
4. Organize guest lecture or seminar.
5. Campaign against banned carry bags.
6. Awareness on Noise pollution.

The

Department of Civil Engineering

organized

Workshop on 3D Studio Max

on

18th August, 2023

for

Civil, Mechanical, Mechatronics & Robotics and Automation Engineering Students

at

Seminar Hall, Admin Block.

Training in-charge

Mr. Rangarajan, CADD Center, Chennai.

Coordinated by,

Mr. R. Sivaji, Assistant Professor, Dept of Civil Engineering.

Mr. R. Sivaji

Chennai, Tamil Nadu, India
Administrative Block, SRI MUTHUKUMARAN INSTITUTE OF TECHNOLOGY, Chikkarayapuram, Chennai, Tamil Nadu 600128, India
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Long 80.107835°
18/08/23 10:30 AM GMT +05:30

The students were briefed about the fundamental concepts of 3D Studio Max and interior designing. Autodesk 3Ds Max training course for Engineers/Architects will help students and experts learn and master the 3Ds Max Software tool. The Candidates will also become familiar with the basics of 3D modeling and Texturing alongside 3D rendering. The Autodesk 3Ds max course is a powerful course to expand the efficiency and performance of the individual. Overall, the course will assist the students to master the software and upgrade their efficiency.

Learning Autodesk 3Ds max course will make students, talented to work across various industries like animation, engineering, scientific research, manufacturing, medical, and educational sectors to show processes that are natural, clinical, corporate, or mechanical in nature.

The students were taught the basic steps in using the software through hands-on-practice sessions along with examples. The workshop is fully interactive and all the students participated enthusiastically and got enriched with the technical contents of the subject up to the end session.

DID YOU KNOW?

Specifically in the 17th century, Civil Engineering is used to distinguish with construction works for Military purposes. John Smeaton is the father of Civil Engineering on June 8th 1729, English Civil Engineer John Smeaton was born. He was responsible for the design of bridges, canals, harbours and light houses. He was constructed the Eddystone Light house.

Eddy stone light house design based on an oak tree whose spreading roots support the trunk only, became the accepted model for rock lights.

The Charles Bridge, was built from Bohemian sandstone. It is said that egg yolks were mixed into the mortar to strengthen the construction of bridge.

The

Department of Civil Engineering

organized

Traffic Awareness Program

on

23rd August, 2023

for

All Students from SMIT

at

Mechanical Auditorium, Dept of Mechanical Engineering.

Speakers

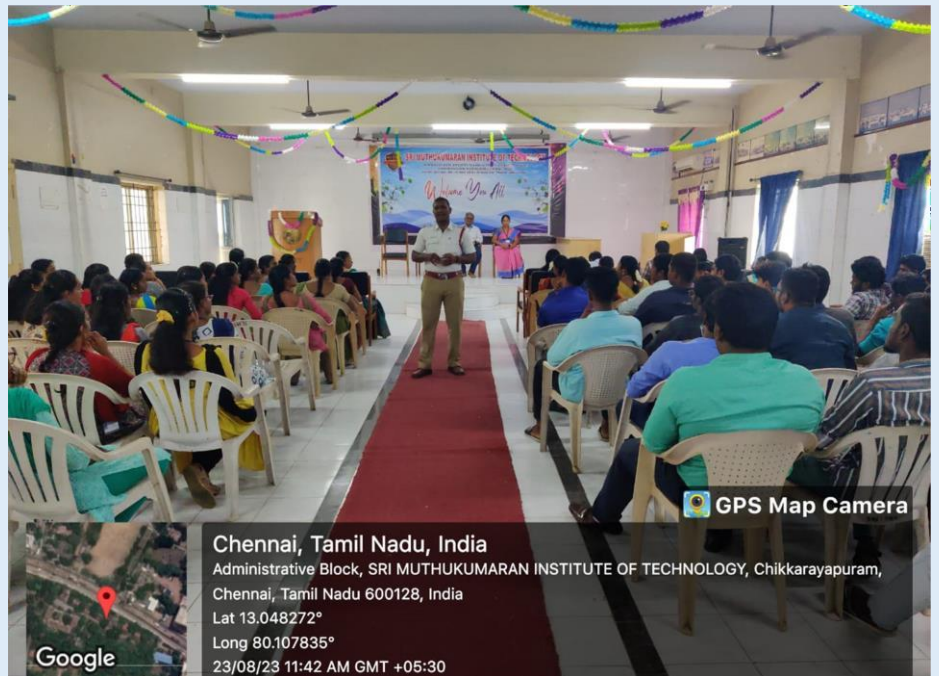**Mr. S. Tamaraiselvan, SRMC, Porur, Chennai.**

and

Mr. K. Ramasamy, Traffic Police, Poonamallee, Chennai.

Coordinated by,

Mr. R. Gopalakrishnan, Assistant Professor, Dept of Civil Engineering.

Mr. R. Gopalakrishnan

A "**Traffic rules-awareness"** is organized in Civil Engineering Department with traffic police, Chennai. Mr. S. Tamaraiselvan, SRMC, Porur, Chennai & Mr. K. Ramasamy acted as resource person.

Vehicle owners and drivers in Tamil Nadu should adhere to traffic rules and regulations for the safety of road users and to facilitate smooth traffic flow across the state. But with the ever-increasing number of vehicles, the authorities are finding it hard to curb the rising traffic violations. The Indian government passed an amendment to The Motor Vehicles Act 2019 to mitigate this issue. The amendment resulted in increased traffic fines and new rules and regulations.

The same rules came into effect in Tamil Nadu as well. However, the authorities made some recommendations to reduce the burden on road users. Traffic fines for some severe offences remain the same, whereas fines for other violations were modified.

The updated traffic rules and fines were introduced in Tamil Nadu to curb violations and spread awareness about following traffic rules. Vehicle drivers, cyclists and pedestrians need to adhere to these rules to make roads safe for everyone. In this section, we highlight the rules that need to be followed by two-wheeler and four-wheeler drivers in Tamil Nadu.

FEEDBACK:

It was really amazing and useful for our students. Around 39 students from Civil department participated in the above Program held at SMIT auditorium. All the participants expressed their gratitude to the Management, Principal, Vice Principal, Civil department conducting the Program on "**Traffic Rules-Awareness**".

The Empire state building is designed to be a lightning rod. In fact, it is struck by lightning about 100 times each year. It was the first building to have over 100 floors and was the tallest building in the world from 1931 until 1972.

The

Department of Computer Science Engineering & Artificial Intelligence and Data Science Engineering

organized a

Workshop on Online Bus Ticket Booking - Coding Using Python

on

04th August, 2023

for

Computer Science Engineering, Electronics and Communication Engineering & Artificial Intelligence and Data Science Engineering Students

at

Computer Science Lab 2, Dept of CSE.

Presented by,

Ms. Anandhi, Tech Lead, Livewire, Chennai.

Coordinated by,

Mrs. R. Vanitha mani, Assistant Professor, Dept of CSE.

Mrs. R. Vanitha mani

On the day of starting a session, Dr. D. Rajinigirinath, HEAD/ Department of Computer Science and Engineering, was given an introductory speech about the workshop. Next, the workshop commenced with an informative session on the basics of Python. The Speaker was spoken about recent technological advancements in the field of Python and its applications.

Next, she started the demonstration of Online Bus Ticket Booking Coding Using Python. Students were shown their interest in demonstration class. They asked various quires to develop the project and coding.

The speaker also clarified their doubts, and one of the students Mr. Vignesh III CSE was worked on the coding and shown the final output of his work. The Speaker was appreciated his work. Finally, feedback session was conducted and the student was expressed positive feedback and interested in the development of various projects using Python. Throughout the workshop, participants engaged in interactive discussions, problem-solving exercises, and Q&A sessions, further enriching their learning experience. They gained knowledge to develop project based technologies. It was really creative and useful for our students. The Department of Computer Science and Engineering and the Department of Artificial intelligence and Data science students given a vote of thanks to the workshop organizers, facilitators, and participants for making this event a valuable learning experience.

All the participants expressed their gratitude to the Management, Principal, Vice Principal and staff members of Department of Computer Science and Engineering and Department of Artificial intelligence and Data science for conducting the Workshop.

The First Computer Programmer:
Ada Lovelace, an English mathematician in the 19th century, is considered the world's first computer programmer. She wrote instructions for Charles Babbage's Analytical Engine, often credited as the first computer.

The

Department of Computer Science Engineering & Artificial Intelligence and Data Science Engineering

organized a

Seminar on Artificial Neural Networks in Data Science

on

10th August, 2023

for

Computer Science Engineering & Artificial Intelligence and Data Science Engineering Students

at

Computer Science Lab 2, Dept of CSE.

Presented by,

Mr. S. Arun Kumar, Sr. Business Research Scientist @ AMAZON, Inventor and Founder, Cogxta Technologies Private Limited.

Coordinated by,

Mrs. R. Vanitha mani, Assistant Professor, Dept of CSE.

Mrs. R. Vanitha mani

On the day of starting a session, Dr. D. Rajinigirinath, HEAD/ Department of Computer Science and Engineering, was given an introductory speech about the seminar. Next, the seminar commenced with an informative session on the basics of Artificial intelligence and Data science. The Speaker was spoken about recent technological advancements in the field of Artificial intelligence and Data science and Artificial Neural Network applications.

Next, he started the demonstration of architecture of Artificial Neural Networks. Then he explained about Hopfield Network, Kohonen Self- Organizing Feature Map, Kohonen Self- Organizing Feature Map, Unsupervised ANNs Algorithms and Techniques. Students were shown their interest in demonstration class. They asked various quires about to develop the project and coding Artificial Neural Networks. The speaker also clarified their doubts. Next, the speaker was conducted to technical test by online. One of our student Mr. SAMU B.J III CSE was worked on the coding and shown the final output of his work. The Speaker was appreciated his work.

Finally, feedback session was conducted and the student was expressed positive feedback and interested in the development of various projects Using Artificial Neural Networks. Throughout the seminar, participants engaged in interactive discussions, problem-solving exercises, and Q&A sessions, further enriching their learning experience. They gained knowledge to develop project-based technologies.

It was really creative and useful for our students. The Department of Computer Science and Engineering and the Department of Artificial intelligence and Data science students given a vote of thanks to the workshop organizers, facilitators, and participants for making this event a valuable learning experience.

All the participants expressed their gratitude to the Management, Principal, Vice Principal and staff members of Department of Computer Science and Engineering and Department of Artificial intelligence and Data science for conducting the seminar.

The

Department of Computer Science Engineering & Artificial Intelligence and Data Science Engineering Students

organized an

Industrial Visit

on

18th August, 2023

for

CSE & AI-DS Students

at

Tek Meadows, Chennai.

accompanied by,

Mrs. T. Saranya, Assistant Professor, Dept of CSE.

Accompanied &

Coordinated by,

Mrs. S. P. Audline Beena, Assistant Professor, Dept of CSE.

Mrs. S. P. Audline Beena

Mrs. T. Saranya

We are the students from Computer science and Engineering department. Our department organized an Industrial visit to AICL which is located in Tek Meadows - Block C, 51, Ratha Tek Meadows Road, Elcot Sez, Sholinganallur, Chennai 600119 (Opposite Accenture Services Pvt Ltd) on 18th August for all the third year students. There are around 65 students with two department staffs Mrs. S. P. Audline Beena and Mrs. T. Saranya went into this trip.

We started the trip from college at 9.30 am and reached AICL by 11:30 am. The AICL team was very friendly and helpful. They assigned a special guide to show us around the company. We were so excited as we visited an IT company for the first time.

We began in a room with a big screen where they talked to us about cyber security. This lasted for 15 minutes and we found it really useful. After that, we went to explore different parts of the company. We saw many cool things they use for their work.

Later, the split us into groups of 15 students each. A staff from AICL named Siddarth took us to a conference hall talked to us about LinkedIn, a website that can help us find jobs. He told us how to use it and what we should and shouldn't do there.

When we got hungry, we went to the cafeteria in the basement and had really tasty food. After eating, Mr. Siddharth and Mrs Dharshini from AICL arranged a meeting with our teachers and class representatives. They discussed internships, training for jobs, and how we can get better at what we're learning.

At 2:00 pm, we left AICL and got back to our college by 3:15 pm. We had a great time and learned so much. We want to thank our Honourable Principal Dr. K. Somasundaram, and Vice Principal Dr. V. Anitha and Our Department HOD Dr. D. Rajinigirinath sir for setting up this trip and our two teachers, Mrs. S. P. Audline Beena, AP/CSE and Mrs. T. Saranya, AP/CSE for accompanying us. Without them, this trip wouldn't have been possible.

The

Department of Electronics and Communication Engineering

inaugurated

Embedded systems and IOT Tech club

on

04ᵗʰ August, 2023

for

Electronics and Communication Engineering Students

at

Audio Visual Hall, Dept of ECE.

Coordinated by,

Mrs. D. Shanthi Chelliah, HOD, Dept of ECE.

Mrs. D. Shanthi Chelliah

Embedded systems and IOT Tech club was started this academic year and inaugurated on 04.08.23. The function started with prayer song and lighting kuthuvilakku. The club was inaugurated by the respected Principal Dr. K. Somasundaram and Vice Principal Dr. V. Anitha. The welcome address was delivered by the Head of the Department Mrs. D. Shanthi Chelliah followed by Principal address. He insisted the club members to design, develop prototypes and then to products. He also told the students and faculty to submit patents, Then vice principal told the students to do projects on their domain interest and do publication in reputed journals, Objective of the Embedded systems and IOT Tech club are explained along with the activities, by student representative Jeffery. J. Jayan, III Yr ECE. The function ended with a Vote of Thanks by V. Priyadharshini, Final Yr, ECE.

The Embedded Systems and IOT Tech Club has made significant strides in achieving its mission of enhancing students' knowledge and skills in the domain of Embedded Systems and the lot. The club's commitment to fostering practical learning experiences, promoting interdisciplinary collaboration, and encouraging innovation has paved the way for students to excel in this dynamic field with the motto Think, Design, Create, Innovate.

How to Read Date Codes on ICs/chips?

The date code usually is in either of two formats: YYWW or WWYY, where WW stands for the week number of the year (Not the month, seems strange, doesn't it?), and where YY stands for the last two digits of the year. For example, in the picture, the date code reads 8332, meaning it was made in the year 1983, in the 32nd week.

Genesis of the "555" Moniker

The timer takes its name from the fact that the original model packed three resistors, rated at 5 kΩ each. However, Camenzind has stated, "It was just arbitrarily chosen. It was Art Fury (marketing manager) who thought the circuit was gonna sell big who picked the name '555'."

The

Departments of ECE & EEE

organized an

Industrial Visit

on

09th August, 2023

for

ECE and EEE Students

at

HTL Limited, Chennai.

accompanied by

Mr. V. Parthiban, Assistant Professor, Dept of ECE,

Accompanied &

coordinated by,

Mrs. D. Jagadeeswari, Assistant Professor, Dept of ECE.

Mr. V. Parthiban

Mrs. D. Jagadeeswari

The Department of Electronics and Communication Engineering organized an industrial visit for 3rd year and final year students to **HTL Limited, Chennai** on **09th August 2023**. Faculties Mrs. D. Jagadeeswari (AP/ECE) and Mr. V. Parthiban (AP/ECE) accompanied the students. The purpose of this visit was to provide practical insights into the operations and functioning of a manufacturing company and to bridge the gap between theoretical knowledge and real-world applications.

HTL LIMITED is a renowned company known for its expertise in Optical Fiber Cable Manufacturer, Industry Acclaimed Fiber & Copper Cabling Solutions Provider, Leading Electrical Wiring Interconnect Solutions provider for Aerospace & Defence OEMs, Go-to Supplier for Wiring Harness for Automotive & Industrial OEMs & Cable Reinforcement & Polymer Compound Solutions Provider for Cable Manufacturing Companies.

DID YOU KNOW?

Which device converts an acoustic wave into an electrical signal?
Microphone. A microphone, colloquially nicknamed mic or mike is a transducer that converts sound into an electrical signal. Microphones typically need to be connected to a preamplifier before the signal can be recorded or reproduced.

Which device converts electricity into acoustic energy?
Headphones are a pair of small loudspeaker drivers worn on or around the head over a user's ears. They are electroacoustic transducers, which convert an electrical signal to a corresponding sound.

The LM741 is an old but classic general-purpose operational amplifier manufactured in 1981 that comes in an 8-pin PDIP, CDIP or TO-99 package with a maximum supply voltage of ±22V. It has a large signal voltage gain of 200V/mV and bandwidth of up to 1 MHz. Its input and output come with overload protection. This op amp also features no latch-up when the common-mode range is exceeded. It is a direct, plug-in replacement for other op amps like the 709C, LM201, MC1439, and 748 in most applications.

The

Department of Electronics and Communication Engineering

conducted

Technical Quiz

on

19th August, 2023

for

the students of SMIT

at

AV Hall, Dept of ECE.

Coordinated by,

Mrs. D. Jagadeeswari, Assistant Professor, Dept of ECE.

Mrs. D. Jagadeeswari

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Long 80.104645°
19/08/23 02:28 PM GMT +05:30

Department of ECE conducted Technical Quiz in the topic "Embedded systems and IoT" on August 19 2023 at AV hall, ECE block. The quiz aimed to test the student's knowledge on Embedded and IoT.

15 teams from III year and IV year of ECE, EEE, CIVIL, AI&DS, PHARMA, BME, and ROBOTICS actively participated in the event. The topics included the importance of Basic Electronics, Applications of Digital Electronics and Electronic Circuits, Python, Computer program, Microprocessor and Microcontroller, General intelligence. To quote Plutarch "The mind is not a vessel to be filled, but a fire to be kindled". One learns every day. But it does not always conquer true knowledge. One's true knowledge can only be ascertained by putting it to test. Three rounds were conducted and evaluated. In final round four teams participated and two teams were given prizes.

Winners Team List
First prize
1. Shanmuga Priya. M, IV/ECE
2. Shree Janani. M. K, IV/ROBOTICS
3. Mohamed Faizan. M, IV/ROBOTICS
Second prize
1. Kashvi. J, III/AI&DS
2. Lokesh. V, III/AI&DS
3. Sharmesh. E, III/AI&DS

Judges

Mr. V. Parthiban, AP/ECE

Mrs. L. Jibanpriya Devi, AP/ECE.

The

Department of Electrical and Electronics Engineering

inaugurated

Tesla Tech Club

on

07th August, 2023

for

Electrical and Electronics Engineering students

at

Simulation Lab, Dept of EEE.

Coordinated by,

Mrs. P. Vanitha, HOD, Dept of EEE.

Mrs. P. Vanitha

The Inaugural Ceremony of the Tesla Tech Club of EEE Department conducted on 07.08.2023 at EEE Block, Simulation Lab. The function commences with the Tamil Thaivazhthu followed by the lighting of lamp by a group of dignitaries on the dais our respected Principal Dr. K. Somasundaram, our beloved Vice-Principal Dr. V. Anitha and our department HOD Mrs. P. Vanitha.

Our HOD Mrs. P. Vanitha formally welcomes all the dignitaries present on the dais and also welcome the colleagues and students. She mentioned about the significance of the club and it aims about bringing all department students together for the development of their career.

Our respected Principal Dr. K. Somasundaram described the importance of Tesla Tech Club and related fields and how they are interconnected with our day to day life. He motivated every student to actively participate in the Club to get benefited.

Our beloved Vice-Principal Dr. V. Anitha briefed about the significance of the Tesla Tech Club. She wished for the success of the Club.

In the end, Mr. D. Parthiban - Student Coordinator of the Tesla Tech Club offered a vote of thanks to all. He thanked all the invited guests and students for gracing the occasion by their solemn presence.

Finally, the program ended up with the National Anthem.

DID YOU KNOW?

What may happen to a lead battery when overcharged?
Explosion. Any lead-acid battery system when overcharged will produce hydrogen gas by electrolysis of water. If the rate of overcharge is small, the vents of each cell allow the dissipation of the gas. A severe overcharge may produce a flammable concentration of hydrogen.

According to Moore's Law, microchips double in power every 18 to 24 months. Gordon E. Moore, a founder of Intel, proposed the concept in 1965.

The

Departments of Electrical and Electronics Engineering & Electronics and Communication Engineering

organized an

Industrial Visit

on

09th August, 2023

for

ECE and EEE Students

at

HTL Limited, Chennai.

Accompanied by,

**B. David Kulandai,
Assistant Professor,
Dept of EEE.**

Mr. B. David Kulandai

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ACKNOWLEDGEMENT

We take this opportunity to thank our HOD, Department of Electrical and Electronics Engineering, SMIT, Mangadu-Chennai. Mrs. P. Vanitha M.E, Ph.D, for giving us an opportunity to go for an industrial visit. Our heartfelt that gratitude also goes out to HTL LTD to visit their industry and guiding us through the various process machinery used. A special thanks to the employees of HTL LTD make this trip a memorable one.

COMPANY PROFILE

This company is a subsidiary of HFCL LTD, has set up state-of the-art infrastructure in the heart of Chennai for manufacturing optical fiber cables (OFC) and providing passive Connectivity solutions. This plant spread over 20 acres, has annual capacity to manufacture 11.88 million fiber km of cables. It also has a plant in Hosur (Tamil Nadu), Where the critical raw materials required for OFC such as Aramid/Kevlar Rods (ARP), Fiber Reinforced Plastic Rods (FRP) and Impregnated Glass Fiber Reinforced (IGFR) are manufactured.

To learn about the process of manufacturing of fiber optic cable. Our guiders are from that industry itself, very helpful during the visit and gave the knowledge about fibre optic manufacturing such as color coding, sheath and protection layers of cable and it is very useful to our student as per academic curriculum activities.

CONCLUSION

All the students have calmly heard all the instructions and took up the necessary information about the industry. Students were enjoyed their industrial visit and we are thankful to the head of the Electrical and Electronics Engineering department of SMIT, Mangadu - Chennai to give the kind opportunity to visit wonderful industry.

The

Department of Electrical and Electronics Engineering

conducted the

Tesla Tech Club - Graduate Aptitude Test

activity on

25th August, 2023

for

The students of SMIT

at

Simulation Lab, EEE Block.

Coordinated by,

Mrs. K. Santhi, Assistant Professor, Dept of EEE.

Mrs. K. Santhi

The Department of Electrical and Electronics Engineering, Sri Muthukumaran Institute of Technology Tesla Tech Club organized a GAT (Graduate Aptitude Test) on 25th August 2023. The Program was organized with the prior permission and guidance of Hon. Principal Dr. K. Somasundaram and Vice Principal Dr. V. Anitha, HOD of EEE Mrs. P. Vanitha along with the staff members. Total 50 students of various departments have attended this Aptitude Test. After round 1 competition 10 students were selected for round 2. After round 2 top mark scored students selected as winners. The winners were awarded with trophy by our department HOD.

Winners List:

First Prize : V. Priyadharshini, IV year, ECE

Second Prize : J. Kashvi, III year, AI&DS

V. Priyadharshini received First Prize from HOD Mrs. P. Vanitha

J. Kashvi received Second Prize from HOD Mrs. P. Vanitha

The

Department of Electrical and Electronics Engineering

organized a

Seminar on Embedded System & IoT

on

30th August, 2023

for

The students of SMIT

at

Simulation Lab, Dept of EEE.

Presented by,

Mr. K. Gunasundar

and

Mr. D. A. Anand

Coordinated by,

Dr. A. Jaffar Sadiq Ali, Assistant Professor, Dept of EEE.

Dr. A. Jaffar Sadiq Ali

The Department of Electrical and Electronics Engineering, Sri Muthukumaran Institute of Technology, "**ASSOCIATION of ELECTRICAL and ELECTRONICS ENGINEERS**" organized a Seminar with the topic "**EMBEDDED SYSTEM & IoT**" on 30th August 2023. The Program was organized with the prior permission and guidance of Hon. Principal Dr. K. Somasundaram and Vice Principal Dr. V. Anitha, HOD of EEE Mrs. P. Vanitha along with the staff members. Total 40 students of various departments have attended this seminar. The first session of the seminar was handled by Mr. K. Ganasundar on the EMBEDDED SYSTEM topic followed by the second session which was handled by Mr. D. A. Anand on the IoT topic. The students found this seminar to be very informative and get guidance for their future course of career direction.

DID YOU KNOW?

Why are circuit boards green?

Printed circuit boards first began being developed in the early 1900s. The earliest versions were constructed by just simple wires that connected components together by a series of pegs or "posts". This was very unreliable as these connections would often crack and degrade over time. As techniques improved manufacturers needed a non-conductive yet durable substrate with which to lay the copper conductive traces upon. One of the cheapest solutions was fiberglass that was bonded with a glass reinforced epoxy-resin, and since this glass natural color is green, the boards would appear green as well. Coincidentally this is the same reason early bottles of cola were green – it was simply the cheapest way to make them. This circuit board construction material came to be known as FR-4. The FR stands for "Flame-Retardant" and is the most widely used PCB material.

What display resolution is called "Full HD"?

1920 x 1080. There are currently four different levels: "HD ready", "HD TV", "HD ready 1080p", "HD TV 1080p". The logos are used on the television equipment capable of certain features.

The

Departments of Mechatronics & Robotics and Automation Engineering

organized

Modelling Workshop on Butterfly Valve Assembly using SOLIDWORKS

on

02ⁿᵈ August, 2023

for

Mechatronics, Mechanical & Robotics and Automation Students

at

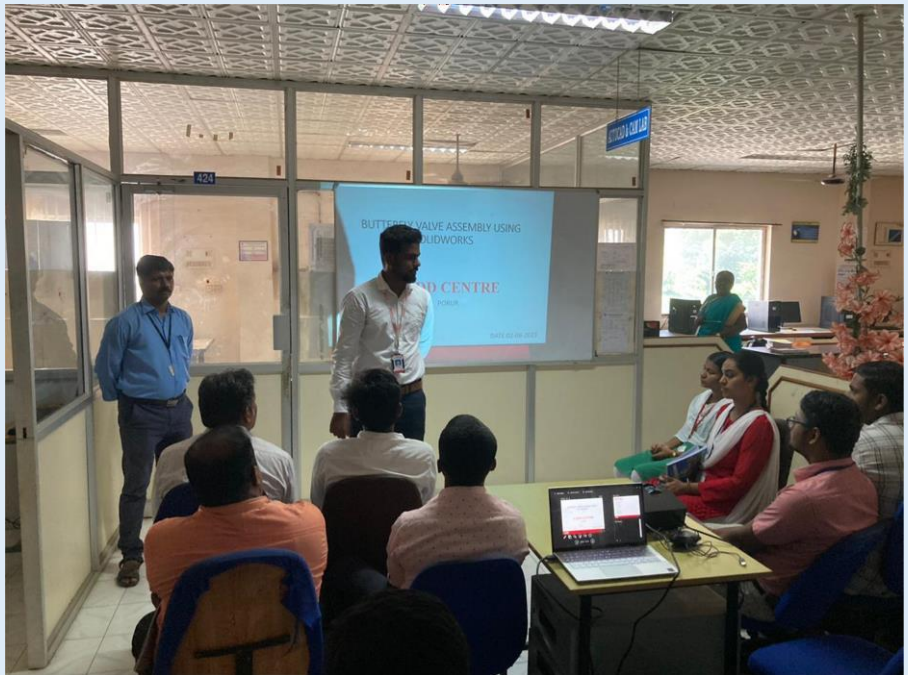**CAD LAB, Dept of Mechanical Engineering.**

speaker

Mr. Mohamed Eliyas, Tech Lead, CADD Centre, Chennai,

coordinated by,

Dr. J. Parthiban, HOD, Dept of Mechatronics & Robotics and Automation Engineering.

Dr. J. Parthipan

The Workshop on Butterfly Valve Assembly using SolidWorks was a comprehensive and engaging event aimed at providing participants with valuable insights into the world of 3D modeling, assembly, and simulation within the context of butterfly valves. The workshop, held at AUTOCAD and CAM LAB, brought together participants from Mechanical, Mechatronics, Robotics and Automation Engineering disciplines to explore the capabilities of SolidWorks software. The workshop commenced with an informative session on the basics of parametric modeling, guiding participants through the creation of intricate 3D models of butterfly valve components such as the disc, stem, body, and actuator. The facilitators emphasized proper dimensioning, material selection, and rendering techniques to ensure accurate and realistic representations.

Subsequently, participants delved into the assembly phase, learning the art of precisely mating and positioning individual parts to replicate the complete butterfly valve mechanism. Practical exercises enabled attendees to apply theoretical knowledge to practical scenarios, fostering a deeper understanding of assembly design. One of the highlights of the workshop was the exploration of motion analysis, where participants could visualize and simulate the dynamic interactions of valve components during operation. This hands-on experience was invaluable in understanding the intricacies of fluid control systems and enhancing the functionality of butterfly valves.

Throughout the workshop, participants engaged in interactive discussions, problem-solving exercises, and Q&A sessions, further enriching their learning experience. The facilitators, who were experts in SolidWorks and mechanical engineering, provided personalized guidance and insights, ensuring participants could effectively apply their newly acquired skills. In conclusion, the Workshop on Butterfly Valve Assembly using SolidWorks proved to be a resounding success in imparting practical knowledge and skills. Attendees left the workshop equipped with the ability to create, simulate, and analyze butterfly valve assemblies, making meaningful contributions to the field of engineering. The event underscored the importance of integrating software proficiency with engineering principles, leaving participants inspired and empowered for future endeavors.

The Department of Mechanical Engineering students given vote of thanks to the workshop organizers, facilitators, and participants for making this event a valuable learning experience.

The

Department of Mechanical Engineering

organized an

Industrial Visit

on

04th August, 2023

for

Civil, Mechanical, Mechatronics & Robotics and Automation Students

at

CIPET, Guindy.

Training in-charge is

Mr. A. Ravichandran, Technical officer and in-charge (VTC), CIPET.

Accompanied by
Mr. R. Sivaji, AP/Civil.
Accompanied and
Coordinated by,
Mr. S. Deenadhayalan AP/Mech.

Mr. R. Sivaji

Mr. S. Deenadhayalan

The training in-charge of CIPET, Mr. A. Ravichandran, addressed the students at the conference hall and enlightened them with a welcome speech and explained about the importance of plastics, applications, various polymer materials and recycling of plastics to the students. In addition, he elucidated the various processes involved in the CIPET with work flow chart and also, highlighted the career opportunities and growth in the polymer areas. Students were divided into two batches and they were taken to the tool room, compression moulding unit, blow molding unit, injection moulding unit and testing unit.

PLANT VISIT: Students visited various units in CIPET and learned about:
1. Various plastic materials and their applications
2. Different moulding machine for plastic processing
3. How to maintain a thickness of plastic material
4. Feeding of plastic granules into the machine
5. Curing time of various plastics
6. Various temperatures maintained in screw type compression moulding machine
7. Injection and manual blow moulding operations
8. Film blowing processes

TOOL ROOM

Tool Room of all CIPET Centres focuses towards making it a perfect apparatus space for any Toolmaker. All CIPET tool rooms are furnished with ultramodern, state-of-the-art machines and CNC machinery that enables the centres to handle commercial job assignments for mould fabrication, high precision machining and manufacturing of standard mould bases for plastic products of any profile, shape or complexities. Besides, the tool rooms also under takes job orders of varying magnitude such as repair of moulds and dies, CNC machining, CNC spark erosion, grinding, drilling, designing, development of jigs and fixtures, tool parts etc.

The Department of Mechanical Engineering students given a vote of thanks for all our faculties for organizing such an informative event for us in crucial for the development of our practical skills regarding plastic technology activities. We got the knowledge on different types of machines used in CIPET. We hope to get more chances further to have such an informative & wonderful experience of visiting different industries.

The

Department of Mechanical Engineering

organized a

Technical Seminar on Industrial Automation

on

09th August, 2023

for

Mechatronics & Robotics and Automation Students

at

Mechatronics Laboratory, Dept of Mechanical.

Speaker

Mr. R. Karthick, IPCS Global, Chennai.

Coordinated by,

Dr. J. Parthiban HOD, Mechatronics & Robotics and Automation Engineering.

Dr. J. Parthipan

The Department of Mechatronics Engineering and Robotics & Automation recently organized a highly informative seminar on "Industrial Automation," providing an enriching experience for students. The event, held on 09 August, 2023, aimed to enhance participants' understanding of cutting-edge automation technologies shaping industries worldwide.

The highlight of the seminar was the insightful presentation delivered by Mr. R. Karthik, an eminent figure from IPCS Global, Chennai. With his extensive expertise in industrial automation, Mr. Karthik captivated the audience with his in-depth knowledge and real-world insights. He discussed the latest trends, challenges, and opportunities in the field, shedding light on the integration of robotics, artificial intelligence, and data analytics into industrial processes. The seminar drew students from both Mechatronics Engineering and Robotics & Automation disciplines, creating a diverse and engaging environment for knowledge exchange. The participants were introduced to the pivotal role of automation in revolutionizing industries, optimizing production, and ensuring operational efficiency. Moreover, they gained valuable insights into the practical aspects of implementing automation solutions across various sectors.

Mr. Karthik's presentation was followed by an interactive Q&A session, during which students enthusiastically posed questions, seeking clarification on topics ranging from industrial IoT to human-robot collaboration. The engagement between the resource person and the students fostered a dynamic learning atmosphere, allowing participants to delve deeper into their areas of interest. This seminar not only broadened participants' horizons but also ignited a spark of curiosity and innovation. The students left the event inspired, equipped with a renewed passion for exploring the limitless possibilities of automation in their academic pursuits and future careers. The Department of Mechatronics Engineering and Robotics & Automation expresses its gratitude to Mr. R. Karthik for his valuable contribution to the seminar's success. The event provided an exceptional platform for students to bridge the gap between theoretical knowledge and practical applications in the ever-evolving field of industrial automation.

In conclusion, the seminar on Industrial Automation orchestrated by the department served as a catalyst for intellectual growth, offering students an invaluable opportunity to learn from an industry expert. The event underscored the significance of staying updated with the latest advancements in automation technology and its potential to reshape the industrial landscape.

The

Department of Mechanical Engineering

inaugurated

The Fusion Club

on

30th August, 2023

for

Mechanical Engineering Students

at

Mechanical Auditorium, Dept of Mechanical.

Chief Guest is

Mr. R. Karthick, IPCS Global, Chennai.

Club Coordinators are

Mr. M. Arsath Rahuman, Associate Professor and Head – Dept of Mech.
and
Mr. N. Ashok, Assistant Professor, Dept of Mech.

Mr. M. Arsath Rahuman

Mr. N. Ashok

The Department of Mechanical Engineering organized "Fusion club" at the Sri Muthukumarn Institute of Technology, Mechanical Auditorium, on 30-08-2023, Wednesday. Mr. M. Arsath Rahuman, Associate professor and Head Mechanical Engineering Department, welcomed the chief guest Mr. D. A. Anand, Territory Technical Head, IPCS Global, Chennai. The function was started by Tamil Thai Vazhthu.

Our Principal Dr. K. Somasundaram, Sri Muthukumaran Institute of Technology, Vice principal Dr. V. Anitha, Head of department Mechanical, at the dais and students gathered for the inaugural function Principal Dr. K. Somasundaram, Principal addressed the gathering and he emphasized that automation is the future of technology and how it poses a threat to employment. He motivated the students to join the club and thus have basic knowledge of the automation systems.

The inaugural address was delivered by the Chief Guest Mr. D. A. Anand, Territory Technical Head, IPCS, which gave the knowledge about recent trends in Automation systems in Industries. His speech insisted that the world is increasingly moving towards sensors and more automation. He spoke about the importance about Automation actually increases demand for instrumentation engineers. Automation club is the platform for the students to take responsibilities and be accountable in their work. The club will act as a catalyst for the students to enhance academic involvements in co-curricular activities.

The main Objectives of the Automation Club
➢ Hands on Training and workshops in Automation
➢ Design and develop of automation systems.
➢ Technical support for students Projects.

After the valuable speech of our chief guest. The vote of thanks was given by Shree Janani. M. K iv year Robotics branch student. The function was ended with our National Anthem.

CLUB MEMBERS

Club coordinator - Mr. M. Arsath Rahuman Head of the department, Mr. N. Ashok Assistant Professor, Dept of Mech.
President – Raja lingam .M – IV-year Mech
Vice President – Raghul G.D -IV year Mech
Secretary- Shree Janani. M. K -IV year Robotics

The

Departments of Mechatronics & Robotics and Automation Engineering

inaugurated

The Tech Titans Club – Mechatronics & The Azimov Club – Robotics and Automation

on

30ᵗʰ August, 2023

for

Mechatronics & Robotics and Automation Students

at

Mechanical Auditorium, Dept of Mechanical Engineering.

Chief Guest is

Mr. R. Karthick, IPCS Global, Chennai.

Coordinated by,

Dr. J. Parthiban HOD, Mechatronics & Robotics and Automation Engineering.

Dr. J. Parthipan

On the 30th of August 2023, an air of excitement and anticipation filled the campus of our esteemed institution as we gathered to witness the grand inauguration of two remarkable clubs - the "Azimov Club," and the "Tech Titans Club." This momentous event marked a significant milestone for the Department of Robotics and Automation and Mechatronics Engineering, bringing together students from diverse fields with a common passion for innovation and technology.

The "Azimov Club," under the able leadership of Mr. Mohammed Faizan, a fourth-year student in Robotics and Automation, opened its doors to a new era of learning and collaboration. Named after the legendary science fiction writer Isaac Asimov, this club symbolizes the boundless possibilities of technology and automation. Mr. Faizan's commitment to fostering a culture of curiosity and creativity was evident in his inspiring speech, where he emphasized the importance of hands-on learning and the limitless potential of robotics and automation.

In parallel, the "Tech Titans Club" of the Mechatronics Engineering Department, spearheaded by Mr. Mirza Himayun, a third-year student, emerged as a port for young engineering enthusiasts. The club draws its name from the titans of the tech industry, hinting at the ambition and drive of its members. Mr. Mirza Himayun, in his address, stressed the importance of interdisciplinary collaboration and the role of mechatronics in shaping the future of engineering.

The ceremony was graced by esteemed dignitaries, including Mr. T. Sudhakar, our Administrative Officer, Dr. K. Somasundaram, our Principal, Dr. V. Anitha, our Vice-Principal, and Mr. D. A. Anand, the Technical Territory Head of IPCS Global, Chennai, as the guest of honor. Their insightful speeches resonated with the audience, emphasizing the importance of clubs and extracurricular activities in shaping well-rounded individuals.

The

Department of Information Technology

inaugurated

The Techno Tuners club

on

26ᵗʰ August, 2023

for

Information Technology Students

at

IQAC HALL, Admin Block.

Coordinated by,

Mrs. S. Dhanalakshmi, HOD, Information Technology.

Mrs. S. Dhanalakshmi

Department of Information Technology conducted the club Inauguration ceremony of 26.08. 2023. The program started at 2 pm in the IQAC hall, First floor of the Administrative block with prayer song. Chief guest Mr. S. Gurusharan, B.Tech (IT), Principal software Engineer, Athena Health Technology Pvt. Ltd, Chennai opened the club TECHNO TUNERS by Ribbon cutting and he addressed the gathering.

He motivated the students for their carrier and as well as society. Also, he narrated the importance of club activities and IT field. Activity based learning helps the students to explore well in different area of interest. students can develop their learning skill, communication skill.

The club Techno Turners inauguration went on well. The program ends with National Anthem.

DID YOU KNOW?

1. QWERTY keyboard was designed to slow down the typing speed
2. The first computer mouse was called the 'X-Y Position Indicator for Display Systems'.
3. Google was up for sale in 1999.
4. You can code programs using just whitespaces
5. Xerox is not a verb for photocopying but is a name of a company that creates and sells xerographic technology.
6. No one yet has verified the identity of Bitcoin's founder.
7. Japan has the fastest Internet speed of 319 terabits per second.
8. The founders of Microsoft, Apple, Facebook, and SpaceX have one thing in common—they are all dropouts!

The

Department of Biomedical Engineering

inaugurated

The Med – Hub Club

on

16th August, 2023

for

Biomedical Engineering Students

at

Mechanical Auditorium, Department of Mechanical Engineering.

Coordinated by,

Mrs. K. Swathysree HOD, Biomedical Engineering.

Mrs. K. Swathysree

INTRODUCTION:

The Med-Hub club is a platform on which gains the knowledge about the trends in the health care sector. They offer the program and activities to encourage others to develop and contribute towards the health care.

VISSION:

We empower our college students to become top contributing to cultivate young talents with expertise in cross-talks of engineering and Medicine.

MISSION:

We help students to recognize the role of a world class multi-disciplinary Biomedical program, featured by Med-Hub spirit and globally influence innovation.

CLUB ACTIVITIES:

1. Blood donation Camp
2. Seminar on medical devices
3. Workshop
4. Quiz competition
5. Equipment dismantles and Construction
6. Circuit Debugging
7. Industrial visit
8. Hospital Training
9. Research and Development
10. Project presentation
11. Techno Expo
12. Drawing and Singing Competition

The evolution of biomedical engineering in health care devices and equipment dates back to the 19th century when the works of sound transmission systems by the famous inventor, Alexander Graham Bell, had helped in the emergence of the first tabletop hearing aids.

The

Department of Pharmaceutical Engineering

inaugurated

The Dose Designator Club

on

16ᵗʰ August, 2023

for

Pharmaceutical Engineering Students

at

Mechanical Auditorium, Department of Mechanical Engineering.

Coordinated by,

Mr. S. Subash Chandrabose HOD, Pharmaceutical Engineering.

Mr. S. Subash Chandrabose

"**DOSE DESIGNATOR CLUB** Ultimate aim is can find their hidden talent from students". The Inauguration of Club of the Department of Pharmaceutical Technology was held on Wednesday 16ᵗʰ August, 2023 in a ceremonial way as per the tradition of the college. The inauguration programme was scheduled at 9:30AM in the college auditorium. The chief guest of the programme was Shri Moses Dhinakaran, DIG, Central Reserve Police Force, Avadi. The ceremony started with Tamil Thai Vazhthu after which there was the lighting of the lamp by Chief Guest, our Principal, Vice-Principal & Head of the Departments. Mr. S. Manikandan, Head of the Department, Department of Civil Engineering gave the formal welcome note and Dr. K. Somasundaram, Principal, delivered the Presidential address.

It was followed by the unveiling of the scroll by our Principal and declaring 'Club Inaugurated' and speech by our Vice-Principal, Dr. V. Anitha. The chief guest was honored by the Principal and Vice-Principal, with a shawl and memento as a token of respect. The programme was then taken forward by a motivational speech by the chief guest which gave students positive energy, a lot of motivation and courage for their future.

The Dose Designator Club was inaugurated by Department of Pharmaceutical Technology, for the student's skill determining and skill development. The main mission of these CLUB is to encourage the students to improve their innovative thinking, leadership, communication and to show their talents in various fields.

The programme came to an end at 11.30 PM with the vote of thanks delivered by Mr. D. Kowshik, Final Year, Department of Pharmaceutical Technology followed by the National Anthem.

The programme organized by Head of the Department Mr. S. Subash Chandrabose and faculty members of department of pharmaceutical technology.

Independence Day Celebration

Introduction

On August 15, 2023, our college celebrated India's 77th Independence Day with great enthusiasm and patriotic fervor. The event was a grand success, reflecting the unity and pride of our college community in commemorating this significant day in our nation's history.

Flag Hoisting:

The day began with the solemn and proud hoisting of the Indian national flag by our esteemed Principal Dr. K. Somasundaram, Vice Principal Dr. V. Anitha, and Administrative Officer Mr. T. Sudhakar. The fluttering tricolor symbolized the sacrifices made by our freedom fighters and the progress our nation has achieved since gaining independence. The ceremony was marked by a sense of unity and reverence.

Speeches:

Following the flag hoisting ceremony, a series of speeches were delivered by our staffs and students that highlighted the significance of Independence Day and its relevance in today's world. These speeches were eloquently delivered, touching upon historical aspects, the sacrifices of our national heroes, and the responsibilities of the youth in upholding the values of freedom and democracy.

Distribution of Sweets:

To share the joy of the occasion, sweets were distributed among the students, faculty, and staff members. This sweet gesture symbolized the sweetness of unity and harmony among the college community.

Conclusion:

The Independence Day celebrations in our college on August 15, 2023, were a resounding success. The event not only paid tribute to our nation's struggle for freedom but also emphasized the importance of unity, responsibility, and patriotism. Through speeches, performances, and cultural exhibitions, the day inspired all participants to value the hard-fought freedom and work towards the betterment of our country.

The college expresses its heartfelt gratitude to all the participants, organizers, and attendees who contributed to making this day a memorable and impactful one. We look forward to many more such celebrations that remind us of our duty towards our nation and its progress.

All about Aug'15,2023

All about Aug'15,2023

All about Aug'15,2023

All about Aug'15,2023

Paper Publication Details

1. Ashok P, T Ragunthar, T Prabahar Godwin James, K Kishore Anthuvan Sahayaraj, P Suganthi, **K Somasundaram**, S Ananthi, "Empowering an IoT platform with advance quantum computing and a Customized deep residual technique", Optical and Quantum Electronics 55 (10), Article: 859, https://doi.org/10.1007/s11082-023-05154-4, July 2023. (SCI/Scopus) (IF3.0).

2. Srinivasa Babu Kasturi, CH Ellaji, D Ganesh, **K Somasundaram**, B Sreedhar, "IoT and Machine Learning Approaches for Classification in Smart Farming", Journal of Survey in Fisheries Sciences, Volume 10 (4S), PP:3373-3385, May 2023. (WOS).

3. Daniya Sakkeena S, Murugavalli S, Jabasheela L, **Anitha V**, "Ceaseless steganographic approaches in machine learning," Measurement: Sensors, Volume 25, 2023, 100622, ISSN 2665-9174, https://doi.org/10.1016/j.measen.2022.100622.

4. J. Jayaprabakar, J. Aravind Kumar, **J. Parthipan**, A. Karthikeyan, M. Anish, Nivin Joy, "Review on hybrid electro chemical energy storage techniques for electrical vehicles: Technical insights on design, performance, energy management, operating issues & challenges," Journal of Energy Storage, Volume 72, Part D,2023,108689, ISSN 2352-152X. (IF9.4)

5. **S**. **Janani, M. R Mahalakshmi, V. Parthiban,** "Nautical Boundary Recognition and Forewarning System Using IoT," International Journal for Science and Advance Research in Technology, Volume 9, Issue 8, August 2023, ISSN NO 2395-1052.

Note :

Dr. K. Somasundaram – Principal, Department of Computer Science Engineering.
Dr. V. Anitha – Vice Principal, Department of Electrical and Electronics Engineering.
Dr. J. Parthipan – Professor, Department of Mechanical Engineering.
Ms. Janani. S – Student, Department of Electronics and Communication Engineering.
Mrs. M. R Mahalakshmi & Mr. V. Parthiban – Assistant Professors, Department of Electronics and Communication Engineering.

Faculty Development Program

A "**PHYSICAL MODE SIX DAY FDTP ON AD3501- Deep Learning**" was sponsored by Anna University, Chennai and it was conducted by Department of AI&DS, Panimalar Engineering College, Chennai from 21.08.2023 to 26.08.2023. **Mrs. R. VANITHA MANI, Assistant Professor/CSE, Mrs. R. Malarvizhi, Assistant Professor/CSE, Ms. Thockchom Priya, Assistant Professor/CSE** were participated from Department of Computer Science and Engineering, Sri Muthukumaran Institute of Technology**,** Chikkarayapuram, Chennai.

Smart India Hackathon Awareness Session

The staff members, Students of CSE and AI-DS were attended "**The Smart India Hackathon Awareness Session**" which held on **25th August, 2023, Friday at 2.00pm,** conducted by **Dr. Abhay Jere**. It is a National wide initiative to provide students a platform to solve some of the pressing problems which we face in our daily lives in order to inculcate the culture of product innovation and a mindset of problem-solving. The first four editions SIH2017, SIH2018, SIH2019, SIH2020 and SIH2022 are proved to be extremely successful in promoting innovative out-of-the-box thoughts in young minds.

The Club Coding

The Department of Computer Science and Engineering & Department of Artificial Intelligence and Data Science has conducted a Club Coding Activity in various Programming Languages like C, C++, Java and Python on every Saturday of the month. The Club Coding Activity went on successfully with more than 100 students from all departments. The certificates were issued to the participants who have scored more than 50% in the Club Coding Activity. The feedback and responses of the participants were so good. This Club Coding Activity has been specially conducted for the net aspirants.

TNSCST Project Proposal

Sl.No	Dept	Project Title	Name of the Principal Investigator	Name of the Co- Investigator	Amount Requested	Status
1	Civil	Sponge Pavement on Urban street Sprawn-Chennai	Mr. R. Gopalakrishnan	Mr. S. Manikandan	2,80,000	Applied
2	CSE	Automation of Deep Face Recognition	Mrs. S. P. Audline Beena	Dr. D. Rajinigirinath	3,70,000	Applied
4	IT	Prevention and Identification of Attacks on TCP Protocol During IP Design and Implementation	Mrs. K. Santhi Ponraj		2,80,000	Applied
5	ECE	IoT Based Contactless Facial Mask &Temperature scanner with Automatic Door Control	Dr. V. Anitha	Mrs. D. Shanthi Chelliah	3,45,000	Applied
6	EEE	A Smart Wireless Power Transfer System for Electric Vehicles in Highway Lane	Mrs. P. Vanitha		3,39,540	Applied
7	Mech	Power Generation and Fresh Water Collection From Streamwith waste water	Mr. N. Ashok	Dr. J. Parthipan	3,39,000	Applied
8	Robotics	Solar Assisted Rotry drying of Solid Waste and Conversion into Briquectes	Dr. J. Parthipan		7,20,000	Applied
10	Pharma	Surface Functionalized Drug Loaded Zn-Oxide Nanospheres in the Application of Bio-nano Medicine	Ms. M. S. Vijayalakshmi		4,60,000	Applied

University Exam Toppers

Department of Civil Engineering

Register Number	Name of the Student	Year/SEM	Rank	CGPA
212619103305	Karthik. S	IV / 8th	I^{st}	8.39
212619103304	Saraswathi. E	IV / 8th	IInd	8.10
212620103302	Arivalagan. S	III / 6th	I^{st}	7.63
212620103310	Nithishwaran. J	III / 6th	IInd	7.22

Department of Computer Science and Engineering

Register Number	Name of the Student	Year/SEM	Rank	CGPA
212619104016	Unnam Ruchitha	IV / 8th	I^{st}	9.18
212619104011	Mohana Priya. V	IV / 8th	IInd	8.90
212620104016	Santhosh. P	III / 6th	I^{st}	8.84
212620104019	Subbalakshmi. A	III / 6th	IInd	8.77

Department of Electronics and Communication Engineering

Register Number	Name of the Student	Year/SEM	Rank	CGPA
212619106005	Vishnupriya. B	IV / 8th	I^{st}	9.25
212619106001	Bharathi. S	IV / 8th	IInd	8.875
212619106002	Lubna. K	IV / 8th	IInd	8.875
212620106002	Priyadarshini. V	III / 6th	I^{st}	8.41
212620106001	Mohammad ikramullah	III / 6th	IInd	7.90

Department of Electrical and Electronics Engineering

Register Number	Name of the Student	Year/SEM	Rank	CGPA
212619105002	Praveen Kumar. C	IV / 8th	I^{st}	8.00
212619105003	Priyadarshini. K	IV / 8th	I^{st}	8.00

Department of Mechanical Engineering

Register Number	Name of the Student	Year/SEM	Rank	CGPA
212619114301	Adnan Khan. I	IV / 8th	I^{st}	8.60
212619114001	Deepan. A	IV / 8th	IInd	8.40

Department of Robotics and Automation Engineering

Register Number	Name of the Student	Year/SEM	Rank	CGPA
212620125002	Shree Janani. M. K	III / 6th	I^{st}	8.36

Department of Information Technology

Register Number	Name of the Student	Year/SEM	Rank	CGPA
212619205010	Ramya. K	IV / 8th	I^{st}	9.14
212619205003	Arun Kumar. R	IV / 8th	IInd	8.89
212620205005	Mohanapriya. S	III / 6th	I^{st}	8.61
212620205002	Logesh. D	III / 6th	IInd	8.52

Department of Bio Medical Engineering

Register Number	Name of the Student	Year/SEM	Rank	CGPA
212620121004	Joan Cynthia. L	III / 6th	Ist	8.826
212620121008	Vharshini. S. J	III / 6th	IInd	8.34

Department of Pharmaceutical Technology

Register Number	Name of the Student	Year/SEM	Rank	CGPA
212620237001	Kaushik. D	III / 6th	Ist	7.70