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) with B+ grade 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 | September, 2023 Issue - 2

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

Contents

A PPT Presentation Competition on Pollution Preventive Measures was organized by Civil Engineering Department under eco club on 02/09/2023

A "POLLUTION PREVENTIVE MEASURES" event is organized by the Civil Engineering Department under eco club activities. Mr. A. G. IGNATIUS AP/IT, Dr. J. PARTHIBAN MECHATRONICS/ HoD, Mr. M. ARSATH RAHMAN MECH/HOD acted as chief guest.

Mohammed Faizan M /Robotics presented his team PPT, about pollution prevention measures and some Reducing air pollution would limit global warming. Not only do air pollutants and greenhouse gases share the same sources, some pollutants directly contribute to global warming. Reducing these pollutants (called Short-Lived Climate Pollutants) would slow the rate of climate change and help limit warming to 1.5C. After Vishwa S /IT team members presented Air pollution is bad for our health. Even though you can't see it, the air you are breathing is probably polluted. Worldwide, 9 out of 10 of us breathe air that is damaging our health. Invisible particles penetrate every cell and organ in our bodies, causing acute and chronic diseases, including asthma, strokes, heart attacks and dementia. Outdoor air pollution causes around 4.2 million early deaths every year. Guru Prakash N /Mech team members presented Dirty air is detrimental to childhoods. Our children, and all future generations, deserve to breathe air that is free from toxic pollution. 93% of children under 15 are denied their right to grow up in a clean and healthy environment. Many babies breathe polluted air from their first breath, a critical period when the foundations of growth and cognitive development are being established. Air pollution negatively impacts a child's physical health, their right to an education and to play. These factors are detrimental to brain development, and contribute to mental health and behavioral issues. Jashwanth P /ECE he discussed about Pollution prevention means taking action to reduce the use of toxic and other potentially harmful materials at the beginning of a process or operation. Examples of pollution prevention practices include: the substitution of less hazardous, less toxic cleaning agents; employee and management training in environmental best management practices; and product redesign and process modification to reduce the amount or toxicity of raw materials and/or conserve energy and other resources.

Vishwa. S (IT 3rd Year)(Right Side) received First prize
from Principal Dr. K. Somasundaram
and
Jothilakshmanan. N (Left Side) Received First prize from
Vice Principal Dr. V. Anitha (IT 3rd Year)

Second Prize in PPT Presentation	
Team 1	**Team 2**
Mohanapriya. S (IT 4TH YEAR), Sudharshan. S (IT 4TH YEAR)	Jashwanth. P (ECE 4TH YEAR) Akash. S (BME 4TH YEAR)

Third Prize in PPT Presentation
Team 1
Mohammed Faizan. M (ROBO-IV YEAR) Harinath. V (BME-IV YEAR)

Team 2

Guruprakash. N (MECH-III YEAR) (Right Side) received
Third prize from Principal Dr. K. Somasundaram
and
Sujith ashwin. B (MECH-III YEAR (Left Side) Received
First prize from Vice Principal Dr. V. Anitha

Coordinator,
Mr. R. Gopalakrishnan,
Asst. Prof – Civil.

Chief Guest,
Mr. A. G. Ignatius,
Asst. Prof – IT.

Chief Guest,
Dr. J. Parthiban,
HoD – Mechatronics.

Chief Guest,
Mr. M. Arsath Rahman
HoD - Mechanical.

- The Tanjore Periya Kovil is entirely built of granite. More than 1,30,000 tons of granite is said to have been used to build it.
- The statue of Nandi at the entrance of the temple is carved out of a single stone.
- A long associated myth with this temple is that the shadow of the main structure does not fall on the ground. However, this has been proven wrong by scientists.

The Department of **Civil Engineering** Students Participated in **Project Expo 2023** on **15/09/2023**

Sri. Muthukumaran Institute of Technology, Chennai has organized the Project Expo on Engineer's Day, 15.09.2023 to exhibit the projects done by students of various departments. The inaugural session started at 10.00 AM at Mechanical auditorium. The event was honored by the Chief Guests, Mr. C. Karthik, Co-Founder & COD, BU Soft Tech, Chennai & Mr. M. Somasundar, Vice President – Technology, Pyroferus Technology, Chennai.

The main objective of organizing this exhibition was to provide the platform and unleash the potential of the students by showcasing their innovative projects and provide an opportunity for the students to demonstrate their learning experience. The students showed good enthusiasm to display their projects and the outcome of the PROJECT EXPO was that students were able to show their projects at a higher level and the process boosted their confidence. From the department of Civil Engineering, students have submitted three projects to showcase their talents.

Project 1: A MINIATURE MODEL OF KALLANAI DAM

Project 1: A MINIATURE MODEL OF KALLANAI DAM

The project was about making a model of Tamilnadu's ancient Kallanai Dam, an Engineers marvel. Kallanai Dam was built more than 2000 years ago by the Chola King Karikalan across the Cauvery River. The 2nd century dam irrigated approximately 69,000 acres of the fertile land. The model of this project was done by **Santhoshkumar. R (212621103001)** of **IIIrd year Civil Department.** The project was done under the guidance of **Mrs. Mary Treasa Shinu N.M,** Assistant Professor of Civil Department.

Project 2 - PELLUCID CONCRETE-A SUBSEQUENT INNOVATIVE CONSTRUCTION MATERIAL

Project 2: PELLUCID CONCRETE-A SUBSEQUENT INNOVATIVE CONSTRUCTION MATERIAL

The project was focused on building an energy efficient building material using plastic optical fibers. The concrete incorporated with plastic optic fiber can transmit the light from one phase to the other phase of the wall. The main advantage of replacing normal concrete with Pellucid concrete is that it reduces the consumption of electricity by making use of the natural sunlight. The project was presented by a batch of 3 students named **Jagadesh. R (212620103001), Arivazhagan. S (212620103302), Deepankumar. S (212620103305)** from **IV year Civil Department**. The project was guided by **Mrs. Mary Treasa Shinu N.M,** Assistant Professor of Civil Department**.**

Project 3: ADVANCED CONSTRUCTION MATERIALS (THERMACOL)

The project is focused on implementing the advanced construction materials in building. The thermocol sheets are used to create the secondary or false ceiling to enhance the architectural look of the building & it's interior. Thermocol resists earthquakes by reducing the mass of the building. Besides resisting earthquakes, the use of expanded polystyrene core in the concrete walls of a building can result in thermal comfort.

The project was presented with a batch of 2 students named **Nithishishwaran. J (212620103310)**, **Rahul. R (212620103311)** from IV year Civil Department. The project was guided by **Mr. R.Gopalakrishnan**, Assistant Professor of Civil Department.

FINALLY:

The projects were explained to the judges and students from various Departments. We sincerely thank our Principal and Vice Principal for organizing the event on Engineers Day and also to the Head of the Department and faculties for making the Project Expo a successful event.

Project Guide,
Mrs. Mary Treasa Shinu N.M
Asst. Prof – Civil.

Project Guide,
Mr. R. Gopalakrishnan,
Asst. Prof – Civil.

"IQ test and TONGUE TWISTER challenge" event is organized by Civil Engineering Department under eco club on 22/09/2023

The Department of Civil Engineering Eco club organized an IQ test and TONGUE TWISTER challenge on 22nd September 2023. The program was organized with the prior permission and guidance of Hon. Principal Dr. K. Somasundaram and Vice Principal Dr. V. Anitha. The program was organized by S. Dhanalakshmi, IT / HOD, K. Macharegai, S&H / HOD acted as a resource person.

12 teams from II year, III year and IV year of CIVIL, ECE, CSE, AL&DS, IT, MECHANICAL and ROBOTICS actively participated in the event. One team three students were participated. Two rounds were conducted and evaluated. Round 1 IQ test and Round 2 Tongue twister challenges. Top mark scored students selected as winners. All the students participated enthusiastically and this event is used for students to clarify the pronunciation of words and to measure a range of an individual's cognitive ability and to measure an individual's capabilities and potential.

	Winners Details		
Register Number	Name of the Student	Department / Year	Prize
212620114334	VIGNESH M	Mechanical / IV Year	I
212621114325	SUJITH ASHWIN B	Mechanical / III Year	
212621115307	JAYAKUMAR P	Mechatronics / III Year	
212621243013	KASHVI J	AI&DS / III Year	II
212621243008	JAGADEESWARI S	AI&DS / III Year	
212621243029	SHARMESH E	AI&DS / III Year	
212620125002	SHREE JANANI M K	Robotics / IV Year	III
212620125307	MOHAMED FAIZAN M	Robotics / IV Year	
212620125303	KAMESHWARAN P	Robotics / IV Year	

Coordinator,
Ms. N. Lavanya,
Asst. Prof – Civil.

Chief Guest,
Mrs. S. Dhanalakshmi,
IT – HOD.

Chief Guest,
Mrs. K. Macha regai,
S&H – HOD.

Memorandum of Understanding Between **PYROFERUS TECHNOLOGIES**, Department of **Computer Science and Engineering** & Department of **Artificial Intelligence and Data Science** on **15/09/2023**

The Department of Computer Science and Engineering and Department of Artificial intelligence and Data science organized the event "MEMORANDUM OF UNDERSTANDING with PYROFERUS TECHNOLOGIES " on 15.09.2023 from 9.30 AM to 12.00 noon to all students of Sri Muthukumaran Institute of Technology at Mechanical auditorium, First floor. The guest speakers were Mr. M. Somasundar Vice President, Technology Pyroferus Technologies, 12/304, 2nd Floor, Sona Complex, 52nd Street, 7th Avenue, Ashok Nagar, Chennai – 600 083, India and Mr. Karthikeyan, Co- Founder, & BOO, BU SOFT TECH, 9A ,6TH FLOOR, DLF CYBERCITY, RAMPURAM, CHENNAI - 89 Coordinated by Mrs. R. Vanitha mani, Assistant Professor.

On the day of starting a session, Our Respected Principal Dr. K. Somasundaram, was given an introduction speech about the event. Next, our beloved Vice-principal Dr. V. Anitha was given keynote speeches about the importance of the MEMORANDUM OF UNDERSTANDING. Then Dr. D. Rajinigirinath, HEAD/ Department of Computer Science and Engineering was given speech about PYROFERUS TECHNOLOGIES. The guest speakers were Mr. M. Somasundar was delivered the valuable speech about project exploration and building teamwork.

Next, the Memorandum of Understanding with PYROFERUS TECHNOLOGIES, Chennai, was signed by **the Department of Computer and Engineering & the Department of Artificial Intelligence and Data Science, Sri Muthukumaran Institute of Technology, Chikkarayapuram, Near Mangadu, Chennai-69** and exchanged successfully.

Coordinator,
Mrs. R. Vanitha mani,
Asst. Prof – CSE.

Organized by,
Dr. D. Rajinigirinath.
CSE – HOD.

Chief Guest,
Mr. M. Somasundar,
Pyroferus Technologies.

Chief Guest,
Mr. Karthikeyan,
BOO, BU SOFT TECH.

The Department of **Computer Science and Engineering** Students Participated in **Project Expo 2023** on **15/09/2023**

On behalf of "**ENGINEER'S DAY"** celebration, Project expo was conducted 15.09.2023 from 9.30 AM to 2.00 PM for all students of Sri Muthukumaran Institute of Technology at Mechanical block and ECE BLOCK. In that event, various number of students were participated from all kinds of departments. The guest members Mr. M. Somasundar Vice President, Technology, Pyroferus Technologies, Mr. Karthikeyan, Co- Founder, & BOO, BU SOFT TECH and Our respected Principal was visited and evaluated their performance.

In that project expo, three students from CSE department, HARINI V, ABHINAYA K and JOSHUA DANIEL J – III Year CSE got the first prize. Finally, the event was ended with prize distribution successfully.
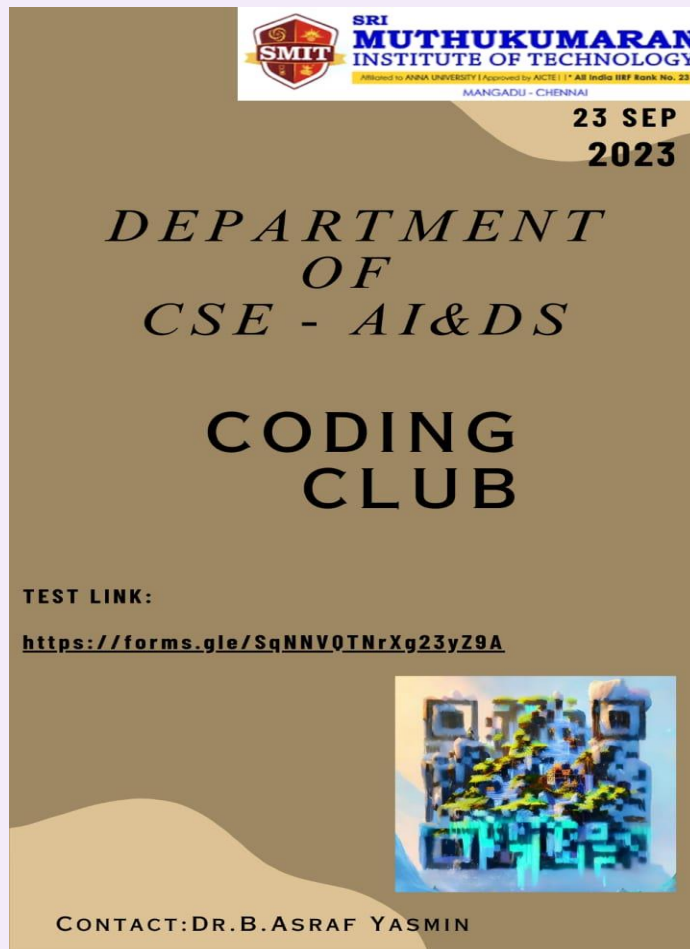

- Why it is named as C ?
    There is no such logic behind the naming of C Language. It was developed to cover all the inabilities of B language (simplified version of BCPL). So, it was just named C as it is next to B in the English alphabets.

- Unix was one of the first operating system kernels implemented in a language other than assembly and that was C.

The Department of **Computer Science and Engineering** & Department of **Artificial Intelligence and Data Science** has conducted a **Club Coding Activity** on various Programming Languages like **C, C++, Java and Python**

SRI MUTHUKUMARAN INSTITUTE OF TECHNOLOGY
Affiliated to ANNA UNIVERSITY | Approved by AICTE | | * All India IIRF Rank No. 23
MANGADU - CHENNAI

23 SEP 2023

DEPARTMENT OF CSE - AI&DS

CODING CLUB

TEST LINK:

https://forms.gle/SqNNVQTNrXg23yZ9A

CONTACT:DR.B.ASRAF YASMIN

The Department of Computer Science and Engineering & Department of Artificial Intelligence and Data Science has conducted a Club Coding Activity on 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 has participated successfully. 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.

Coordinator,
Dr. B. Asarf Yasmin,
Asst. Prof – CSE.

Sri Muthukumaran Institute of Technology, **CSE Department**, Two days **FDP & Workshop – e-yantra** conducted by **Shri Adhiparasakthi Engineering College**, Melmaruvathur & **IIT Bombay**- Participants- **Mrs. D. Suriyakala (CSE) and Mr. D. Eeswar Samhithan (CSE) and Ms. Sridevi (Mechatronics)**

22-09-2023 (Friday)

Melmaruvathur, Tamil Nadu, India
CRPC+CQX, Melmaruvathur, Tamil Nadu 603319, India
Lat 12.436079°
Long 79.822153°
23/09/23 09:19 AM GMT +05:30

During the forenoon session, we have attended the ERTS (Embedded Real Time Systems) lab session where we have discussed some basic concepts of robotics and the components that together create a robot. The robot kit version we have implemented is the Firebird V P89V51RD2 which was used to conduct practice sessions for 2 days free of cost.

This robot kit was developed exclusively by the IIT Bombay e-yantra team. There was a group of 3 resource persons namely, Deepa, Eesha and Jerish. One of the remarkable traits about the Aadhiparasakthi engineering college is a very good level of hospitality and comfort provided to the guest faculties.

The principal of the Engineering College, Mr. Raja and HOD of the CSE department, Mrs. Dhaya have given a warm welcome and extended their support for the two days for everyone present there. The student volunteers were highly dynamic, disciplined, responsible and resourceful at all points of time. The resource persons were very knowledgeable and had a good composure. In the first day, we have gone through a various range of sensors and their functionalities. We have conducted various experiments on robot like buzzer interfacing and motor interfacing and got the successful output.

The organizers have arranged for a very good lunch for two days and the hostel accommodation was provided to the faculty as well. By the evening, we have visited the holy temple of Adhiparasakthi goddess. The temple as well as the whole city was so neat and clean.

23.09.2023 (Saturday)

In the second day, we have conducted some other experiments like LCD interfacing, Implementation of ADC & white line following test. The robot was made as a multi-purpose package, and there was also an instrumentation kit called Lab-on- a-box which was the initiative taken by the e-yantra Bombay IIT team from the year 2022.

There was also a Project expo for all engineering students of the host college at the central library block, which was a wonderful and eye-catching experience where students have showcased all their talents and innovative spirits.

Finally, after having the lunch, we have known the masterminds behind the e-yantra and the competitive arena open to both school and college students. So, after having some good moments with the e-yantra team, we have come out with a sense of pleasure and contentment.

Faculty Participants

| Mr. D. Eeswar Samhithan, Asst. Prof – CSE. | Mrs. D. Suriyakala, Asst. Prof – CSE. | Ms. S. Sridevi, Asst. Prof – Mechatronics. |

Industrial visit is arranged for students from **ECE, EEE** and **BME** to visit **North Chennai Thermal Power Station** located in **Athipattu** on **12/09/2023**.

Introduction: Industrial visit is arranged for students from ECE. EEE and BME On 12/9/23 to visit North Chennai Thermal Power Station located in Athipattu. The visit aimed to provide a comprehensive understanding of the plant's operations, safety measures, and environmental initiatives.

Description of the North Chennai Thermal Power Station: North Chennai Thermal Power Station is a state-of-the-art facility that plays a crucial role in the energy generation infrastructure of the region. The Assistant Executive Engineer from the HR department briefly described about capacity, technology used, and its unique features.

Key Observations and Findings: During the visit, following observations and findings:

1. *__Plant Operations__:* The power plant was operating efficiently, generating electricity to cater the needs of people. The control room showcased advanced monitoring and control systems, ensuring smooth operations.

2. *__Safety Measures__:* North Chennai Thermal Power Station prioritizes safety. The personnel wore appropriate safety gear, and safety protocols were diligently followed. Firefighting equipment and emergency response systems were readily accessible.

3. *__Environmental Initiatives__:* I was pleased to learn about the plant's commitment to environmental sustainability. They have implemented [mention any specific eco-friendly practices or technologies] to reduce their carbon footprint.

4. *__Maintenance and Upkeep__:* The facility appeared well-maintained, with a visible emphasis on cleanliness and organization. Routine maintenance and inspection schedules were evident.

5. *__Workforce__:* The staff at the power plant demonstrated professionalism and expertise. They readily answered questions and provided valuable insights into their daily responsibilities.

The visit to North Chennai Thermal Power Station IV provided valuable insights into the operations and practices of this essential facility. The dedication to safety, environmental responsibility, and efficient energy generation was evident throughout the tour. . This experience has deepened my understanding of thermal power generation and the vital role it plays in the region's energy supply.

Accompanied by,
Mrs. J. Lokeshwari, Asst. Prof - ECE

Coordinator & Accompanied by
Mr. V. Parthiban, Asst. Prof - ECE

The **Project Expo '23** was conducted with regard to **Engineers Day** celebration at **Solid State Circuits Lab**, Department of **Electronics and Communication Engineering** and **Lecture Hall** and Department of **Mechanical Engineering** on **15/09/2023**

The Project Expo '23 was conducted on 15.09.2023 with regard to Engineers Day celebration in the ECE department at Solid State Circuits lab and Mechanical department Lecture Hall. The best projects of ECE, EEE, CIVIL, Mechanical, CSE, IT, BME, Pharma, AIDS and Robotics & Automation students have been displayed and demonstrated.

Projects relevant to various streams Embedded systems, VLSI designs, Digital Signal Processing, Image processing, Construction, Environmental, Pharmaceutical, Pharmacokinetics, Automotive, Artificial intelligence & machine learning, Web development, Python development, Applied data science, HTML/CSS/JAVA SCRIPT, Robotics and Machine vision were displayed. Students shared their innovative ideas and thoughts along with the project kits to their juniors. Participants demonstrated their respective projects to the Chief guest Mr. Karthik. Co-founder & COO BU Soft Tech, Chennai, Mr. M. Somasundar, Vice President Technology, Pyroferus Technology, Chennai, Principal, Vice Principal and the other department HODS and faculties. Chief guest congratulated the students for their wonderful effort. Second and third year students have made aware of various areas in their stream and technical knowledge about designing a project and implement the same. Best innovative projects were identified by the judges and awarded prizes.

WINNERS			
Register Number	**Name**	**Department / Year**	**Prize**
212621104028	Joshua Daniel J	CSE / III year	First Prize
212621104022	Harini V	CSE / III year	
212621104003	Abinaya K	CSE / III year	
212620105311	Dinesh S	EEE / IV year	Second Prize
212620105328	Sakthivel S	EEE / IV year	
212620105330	Sarankumar M	EEE / IV year	

Judge,
Mrs. S. Jerril Gilda,
Asst. Prof – EEE.

Judge,
Mrs. S. P. Audline Beena,
Asst. Prof – CSE.

Coordinator,
Mrs. D. Shanthi Chelliah,
ECE – HOD.

The Department of **Electronics and Communication Engineering** Students Participated in **Project Expo 2023** on **15/09/2023**

The **Project Expo '23** was conducted on **15.09.2023** with regard to Engineers Day celebration in the ECE **department** at Solid State Circuits lab and Mechanical department Lecture Hall. The best projects of ECE, EEE, CIVIL, Mechanical, CSE, IT, BME, Pharma, AIDS and Robotics & Automation students have been displayed and demonstrated.

Projects relevant to various streams Embedded systems, VLSI designs, Digital Signal Processing, Image processing, Construction, Environmental, Pharmaceutical, Pharmacokinetics, Automotive, Artificial intelligence & machine learning, Web development, Python development, Applied data science, HTML/CSS/JAVA SCRIPT, Robotics and Machine vision were displayed. Students shared their innovative ideas and thoughts along with the project kits to their juniors.

Participants demonstrated their respective projects to the Chief guest Mr. Karthik. Co-founder & COO BU Soft Tech, Chennai, Mr. M. Somasundar, Vice President Technology, Pyroferus Technology, Chennai, Principal, Vice Principal and the other department HODS and faculties. Chief Guest congratulated the students for their wonderful effort. Second and third year students have made aware of various areas in their stream and technical knowledge about designing a project and implement the same. Best innovative projects were identified by the judges and awarded prizes.

Project 1: SMART PLANT IRRIGATION SYSTEM

STUDENTS: MAMIDALA SAI MITHIN, ARUL A, LAKSHMAN G

ABSTRACT: The key objective of the paper is to monitor the soil moisture content during its dry and wet conditions with the aid of a moisture sensor, an automated water inlet setup which can also monitor and record temperature, humidity etc. It controls the irrigation of Plants automatically where the need for human intervention can be reduced as water supply is becoming scarce in today's world there is an urgency of adopting smart ways of irrigation The project describes how irrigation can be handled smartly using IOT. This project aims to save time and avoiding problems like constant vigilance.

It also helps in conserving water automatically providing water to the plants/fields depending on the water requirements this system can also prove to be helpful in agricultural parks and lawns. The objective system is to detect the moisture content of the soil and depending upon its sprinkling of water. This entire information will be sent to the user's mobile phone. This approach results in reduced water usage, improved plant health, and ultimately cost savings for farmers and landowners. The use of soil moisture sensors in smart irrigation systems is an essential step towards sustainable and efficient water management.
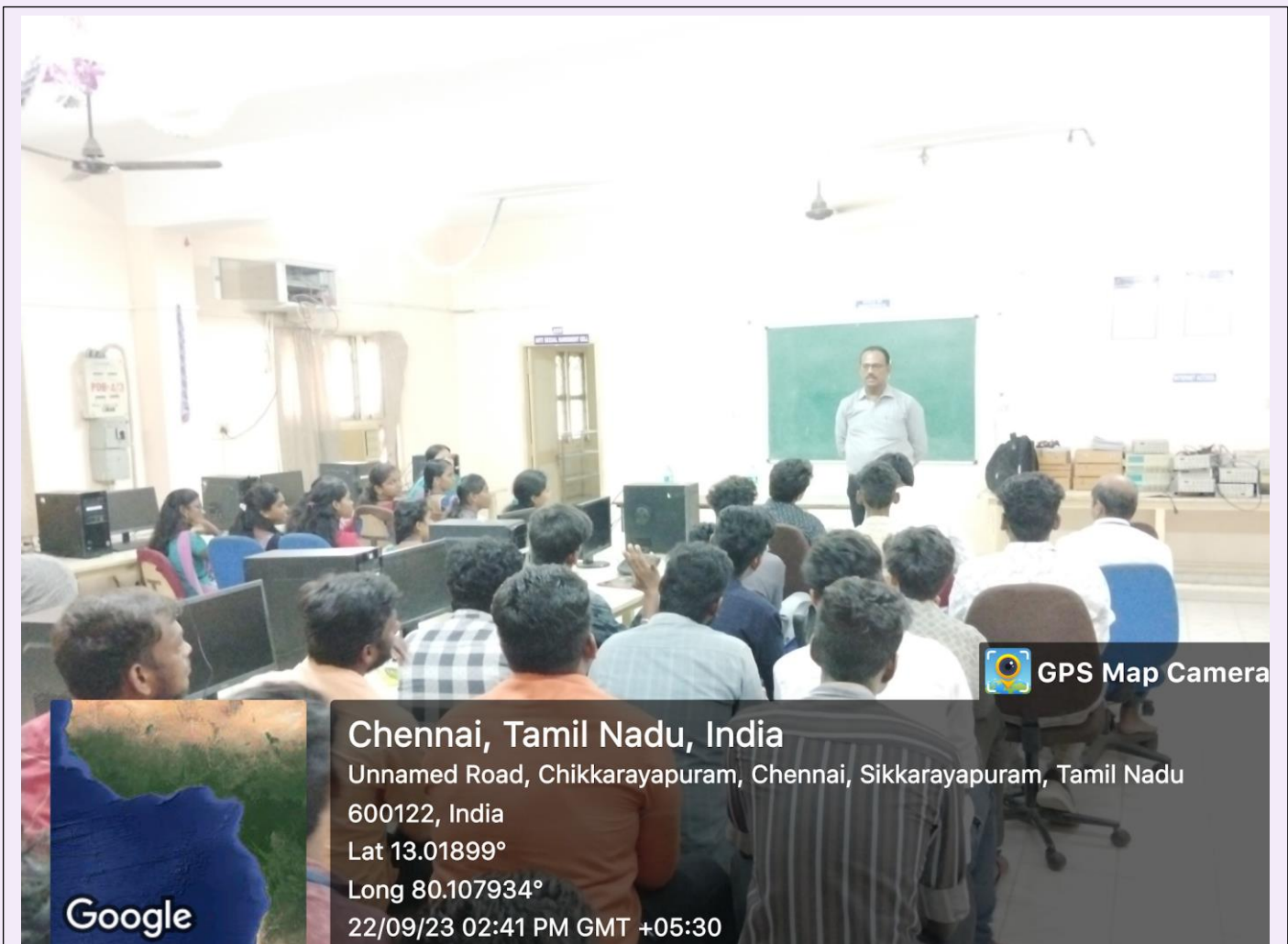
Title 2 : A SMART DOOR BELL SYSTEM FOR DEAF AND DUMB PEOPLE USING MICRO

STUDENTS: MOHAMMED IKARAMUILAH A, SURIYA PRAKASH S, JASHWANTH P

ABSTRACT: Every problem human race has ever faced, technology has given its answer. Technology has now evolved in each and every aspect of the human world, from electric cars to smart washing machine and what not. Technology has improved the life of differently abled people in many ways too. Our motivation for this project is to help deaf people respond non-speech crucial sounds efficiently so that they can live a normal life. In this project a user module is designed which will notify the user whenever the doorbell is pressed. The notification will be sent through a Zigbee module which covers a good amount of range. One module will be hooked at the doorbell while the other will be connected to the user module (a wearable device) with some vibrating motor for the indicated purpose/ The LCD screen will display the text for notification purpose. These modules are controlled by Arduino Control Unit.

The Department of **Electronics and Communication Engineering**, **Embedded System and IOT Club** organized a Seminar in **"IMPORTANCE OF HIGHER STUDIES IN ABROAD"** on **22/09/2023**

Chennai, Tamil Nadu, India
Unnamed Road, Chikkarayapuram, Chennai, Sikkarayapuram, Tamil Nadu
600122, India
Lat 13.01899°
Long 80.107934°
22/09/23 02:41 PM GMT +05:30

This seminar was conducted at 22.09.23 by a resource person Mr. Abdul Navas ,M.B.A, M.Phil, Senior Manager of KC Overseas, Osprey Academy, Chennai in the ECE department. He had explained to the students of ECE, EEE and BME departments about the benefits of doing higher studies in abroad. He also mentioned that it provides students with a global perspective by exposing them to diverse cultures, ideas, and ways of thinking. This international exposure fosters cross-cultural competence, adaptability, and a broader worldview, which are invaluable qualities in today's interconnected world. Studying abroad allows students to build a global network of peers and mentors, which can prove instrumental in their future careers. Collaborating with individuals from different backgrounds enriches one's knowledge and promotes cultural exchange. Employers highly value international experience and education. Graduates with degrees from foreign institutions often find themselves more competitive in the job market, with access to a broader range of career opportunities. Finally, he concluded about the ideas to check with the specific Universities or Institutions, depending on students' interests for their exact requirements and admission procedures related to IELTS (International English Language Testing System), GRE (Graduate Record Examination) etc. exams, as they may vary widely between programs and countries.

Coordinator,
Mrs. D. Shanthi Chelliah,
ECE – HOD.

The Department of **Electrical and Electronics Engineering**, **Tesla Tech Club** organized **Intra-Department Crossword Expedition** on **08/09/2023**

The Department of Electrical and Electronics Engineering, Sri Muthukumaran Institute of Technology Tesla Tech Club organized IDCE 2023 (Intra-Department Crossword Expedition) on 08th September 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 33 students on 11 teams from various departments have attended this IDCE 2023. After round 1 competition 5 teams were selected for round 2. After round 2 top two teams selected as winners. The winners were awarded with trophies by our department HoD.

V.Priyadharshini(212620106002), A.Mohamed Ikramullah (212620106001), and Jeffray J.Jayan (212621106005), from Department of Electronics and Communication Engineering received first prize from HOD Mrs. P. Vanitha

M.Mohamed Faizan(212620125307), M.K. Shree Janani(212620125002) and V.K. Aarthi Pooja(212620025001) Department of Robotics and Automation Engineering received second prize form HOD Mrs. P. Vanitha

Coordinator,
Mrs. K. Shanthi, Asst. Prof - EEE

Mrs. P. Vanitha,
EEE – HOD.

The Department of **Electrical and Electronics Engineering** Students Participated an Industrial Visit **North Chennai Thermal Power Station** located in **Athipattu** on **12/09/2023**


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 NCTPS to visit their industry and guiding us through the various process machinery used. A special thanks to the employees of NCTPS make this trip a memorable one.

ABOUT A NORTH CHENNAI THERMAL POWER SATION INDUSTRIAL VISIT

To learn about the process of a thermal power plant in which heat energy is converted to electrical energy. In a steam-generating cycle, heat is used to boil water in a large pressure vessel to produce high-pressure steam, which drives a steam turbine connected to an electrical generator. The low-pressure exhaust from the turbine enters a steam condenser where it is cooled to produce hot condensate which is recycled to the heating process to generate more high-pressure steam.

CONCLUSION

All the students have calmly heard all the instructions and took up the necessary information about the industry. Students were enjoying 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.

DID YOU KNOW?
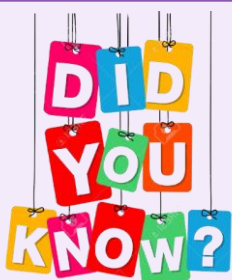
- Before electricity was a way of life, ancient Egyptians were aware that lightning and shocks from electric fish were very powerful. They used to refer to these fish as the "Thunderers of the Nile."
- Iceland is the country that uses the most electricity annually. Their consumption is about 23% more than the U.S.

Accompanied by,
Mr. B. David Kulandai,
Asst. Prof - EEE

The Department of **Electrical and Electronics Engineering** Students Participated in **Project Expo 2023** on **15/09/2023**

Project Title: Automatic Bus Fare Collection System Using Arduino, (Won Second Prize)
Done By, S. Dinesh (212620105311),S. Sakthivel (212620105328), and M**. Sarankumar (212620105330).**
Description: Today, everything in the world is smart & digitalized Many advances have been made in the transportation sector. However, public transport buses in India have always been an area where such new advances have turned their faces out. This AFC System overcomes many problems faced by the passengers in public buses such as to carry the money & exact changes for tickets and waiting for the conductor to get tickets etc. Hence this project proposes an automated card driven system using RFID for bus journeys in India. The objective of this project is to count the passengers using IR sensor &calculating the distance travelled by the passengers automatically and the corresponding amount is debited from RFID card.
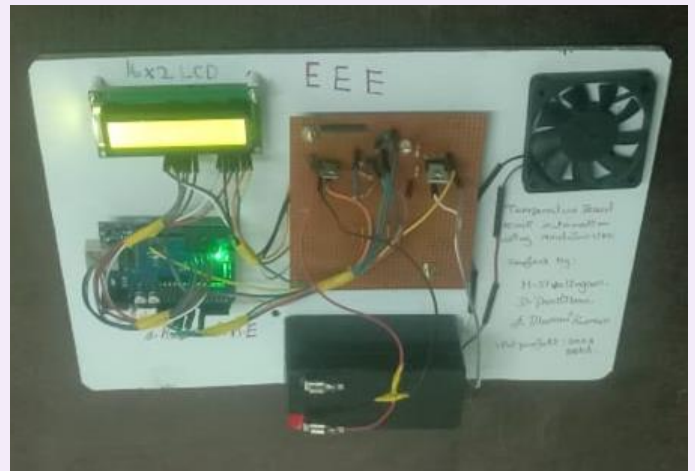
Project Title: Temperature Based Home Automation, Done By, S. Dharanikumar (212620105306), D. Parthiban (212620105323), and M. Sivalingam (212620105332).
Description: Nowadays, technology is advancing and houses are getting smarter. Modern houses are usually shifting from conventional switches to some kind of centralized control system with remote control and switches. As we all know, conventional switches located in different location of the house make it difficult in accessing them. Users need to go near them to operate. Temperature-based fan speed control using Arduino is a project that aims to regulate the temperature of an environment or electronic device using an automated approach. The project involves connecting a temperature sensor to an Arduino microcontroller board and using a motor driver module to adjust the speed of a fan based on the ambient temperature. The fan speed control is achieved through a program written in the Arduino IDE that reads the temperature value from the sensor and adjusts the fan speed accordingly. Overall, temperature-based fan speed control using Arduino is a useful and practical project that can be applied in a variety of settings, from home automation to industrial cooling systems.

The Department of **Electrical and Electronics Engineering**, **Association of Electrical and Electronics Engineers** organized a Seminar on **Interview Skills** on **23/09/2023**

The Department of Electrical and Electronics Engineering, Sri Muthukumaran Institute of Technology, "ASSOCIATION of ELECTRICAL and ELECTRONICS ENGINEERS" organized a Seminar with the topic "INTERVIEW SKILLS" on 23rd September 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 22 students of various departments have attended this seminar. The seminar was handled by Mr. Antony Gnanasundar on the INTERVIEW SKILLS topic. The students found this seminar to be very thought provoking and help them to be proactive to attend any interview in their career.

Coordinator,
Dr. A. Jaffar Sadiq Ali,
Asst. Prof - EEE

Coordinator,
Mrs. P. Vanitha,
EEE – HOD.

DID YOU KNOW?

- In the 1880's, there was a "war of currents" between Nikola Tesla and Thomas Edison. Tesla helped invent AC current and Edison helped invent DC current, and both wanted their currents to be popularized. AC won the battle because it's safer and can be used over longer distances.
- The world's biggest light bulb is located in Edison, New Jersey. It's 14 feet tall, weighs eight tons, and sits on top of the Thomas Edison Memorial Tower.
- When lightning strikes, it flows from the cloud to the ground, but the part we see is actually the charge going from the ground back up into the cloud.
- Nerve cells communicate by tiny pulses of electricity, which are triggered by changes in the membranes of nerve cells that allow charged molecules to flow in and out of the cell in response to chemical signals. In other words, the brain generates its own electricity. (This is why an electric shock feels so strange and can cause the body to jerk uncontrollably, as the outside electricity makes the nervous system's electrical machinery go haywire.)

The Department of **Mechanical Engineering** organized a seminar on **Renewable Energy Sources** by **Cluster Energy Power solutions and Services** on 09/09/2023

The department of Mechanical Engineering organized a seminar on "Renewable Energy sources" by Cluster Energy Power solutions and services, Chennai at Sri Muthukumarn Institute of Technology, Mechatronics Laboratory, on 19-09-2023, Tuesday Sri Muthukumarn Institute of Technology, Mechatronics Laboratory, on 6-09-2023, Thursday, Dr. Parthiban S, Professor and Head Mechatronics Department The chief guest Mr. S. Dinesh, Managing Director, Cluster Energy Power solutions &services, Chennai.

Our Principal Dr. K. Somasundaram, Sri Muthukumaran Institute of Technology, Vice principal Dr. V. Anitha, Head of the Departments Mechanical and Robotics students gathered for the Seminar programme Principal Dr. K. Somasundaran, Addressed the gathering and he emphasized the students that the Renewable Energy source importance, and emphasizes the need for alternative energy production and effective utilization of solar in all industrial and domestic usage. Chief Guest Mr S. Dinesh emphasized the environmental benefits from Renewables other than reduction of greenhouse gas and other air emissions and addressed the environmental impacts of renewable energy are site specific, the environmental impacts of renewable energy are site specific, but generalizations are still possible.

Renewable energy is usually more environmentally friendly than alternative energy sources, especially with regard to air emissions. Environmental impacts are site-specific and there are a number of ways to minimize the effects, which are usually small and reversible. Since solar power systems generate no air pollution during operation, the primary environmental, health, and safety issues involve how they are manufactured, installed, and ultimately disposed of. He has given the introduction on different kind of solar thermal systems in detail. The role of solar water heaters for different applications has been elucidated. Also, he has explained the method of designing a solar thermal system for industrial process heating with an industrial case study. He clarified the doubts of the students during Q&A session. The function was ended with our National Anthem.

Coordinator,
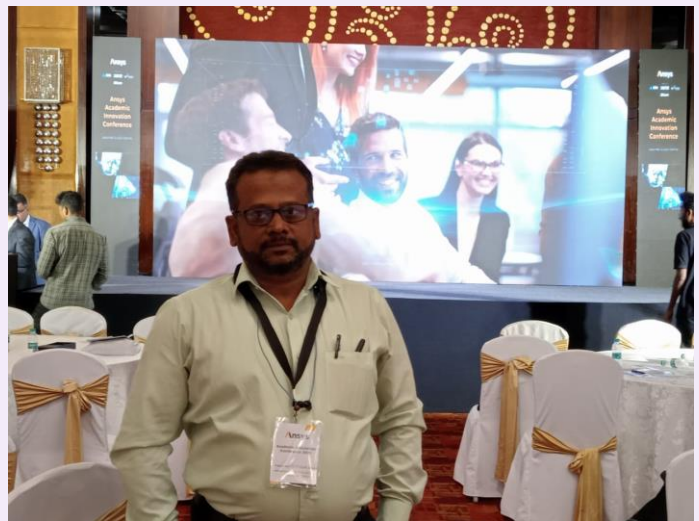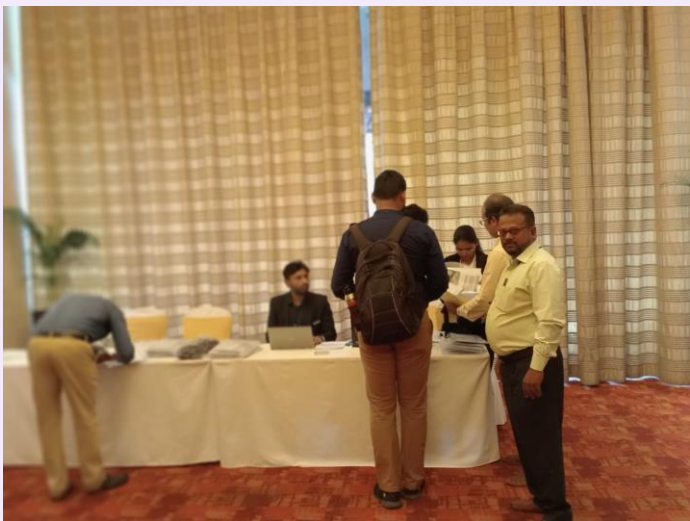Mr. M. Arunkumar,
Asst. Prof -Mechanical.

Organized by,
Mr. M. Arsath Rahman
Mechanical – HOD.

Chief Guest, Mr. S. Dinesh,
Managing Director, Cluster Energy
Power solutions & services.

Faculties from **Department of Mechanical Engineering** attended **Ansys Academic Innovation Conference,** Chennai on 13/09/2023

Mr. M. Arsath Rahman, HOD, the Department of Mechanical Engineering and Dr. J. Parthipan , HoD, Department of Mechatronics, Robotics and Automation Engineering, attended Ansys Academic Innovation Conference, Chennai on 13/09/2023.

ANSYS Academic engineering simulation software is used by thousands of universities globally for undergraduate students to learn physics principles, for researchers to solve complex engineering problems and for postgraduate students to produce data for their master's theses or doctoral dissertations. This Conference focused on Ansys Multiphysics Solutions for AU R2021 UG, PG & Elective Laboratory requirements of Core Engineering Departments.

Agentha of the Conference,

• Gain insight into ANSYS Multiphysics solutions & pervasive engineering simulation

• Listen to eminent speakers from Ansys

• Learn about the ANSYS Academic Program

• Discuss simulation challenges on your AU - R2021 curriculum and Syllabi

• Learn about latest ANSYS Courses – AIS – Ansys Innovation Space

•Learn about Product Bundles and Campus wide Solutions

In addition to the intellectual exchange and networking opportunities, the conference also offers a platform for sharing best practices, emerging trends, and innovative solutions related to AU R2021 Curriculum & Syllabi. It was an excellent occasion for you to engage with colleagues, peers and experts from Ansys.

The Department of **Mechanical Engineering** Students Participated in **Project Expo 2023** on **15/09/2023**

Project Title: PEDAL OPERATED CUTTING MACHINE USING CRANK AND SLOTTER LEVER MECHANISIM

Done By, Adhithya Prabhu C (212620114301), Dev Chander E (212620114308), Guruprakash N (212621114002), Sujith Aswin B (212621114325).

Pedal-operated cutting machines are essential tools in various industries, particularly in the field of metal fabrication and woodworking. This abstract provides an overview of a cutting-edge pedal-operated cutting machine that utilizes a crank and slotter lever mechanism for improved efficiency and precision.

The machine is designed to offer a manual alternative to power-operated cutting tools while maintaining the same level of accuracy and reducing the energy consumption. The pedal-operated system is not only eco-friendly but also cost-effective, making it a viable choice for small-scale workshops and environmentally conscious industries.

A highly informative seminar titled **Digital Prototype using CAD/CAM/CAE** organized by the Department of **Robotics and Automation, Mechatronics**, and **Mechanical Engineering** on 07/09/2023

Introduction

On the 7th of September 2023, a highly informative seminar on "Digital Prototype using CAD/CAM/CAE" was held in the Mechatronics Lab. The seminar was conducted by Mr. P. Pavithran, a renowned Digital Prototype expert from Petricore Technologies Engineering Services Pvt Ltd. The focus of the seminar was on Autodesk Inventor, a widely-used software tool in the field of engineering and design.

Seminar Overview

The seminar aimed to enlighten students and faculty members about the significance of digital prototyping in modern engineering and how CAD/CAM/CAE tools, especially Autodesk Inventor, play a pivotal role in this process. The event was structured to provide participants with insights into the practical applications of digital prototyping, emphasizing its importance in the product development lifecycle.

Key Highlights

1. Expertise of Mr. P. Pavithran: Mr. Pavithran's extensive experience and deep knowledge in the field of digital prototyping were evident throughout the seminar. He presented complex concepts in an accessible manner, making it easier for the audience to grasp the essential principles.

2. Autodesk Inventor: The core focus of the seminar was on Autodesk Inventor, a powerful software tool used for 3D mechanical design, simulation, visualization, and documentation. Mr. Pavithran provided a comprehensive overview of the software's capabilities, features, and its practical applications in real-world engineering projects.

3. Real-life Case Studies: To illustrate the practical benefits of digital prototyping and Autodesk Inventor, Mr. Pavithran presented several real-life case studies from projects he had worked on. These case studies showcased how the software streamlined the design process, reduced errors, and improved overall project efficiency.

4. Interactive Session: The seminar included an interactive session where participants had the opportunity to ask questions and clarify doubts. This engagement fostered a dynamic learning environment, allowing attendees to gain deeper insights into the topic.

Audience Response

The seminar received an enthusiastic response from both students and faculty members. Attendees appreciated Mr. Pavithran's clear and engaging presentation style, which made complex topics understandable. Many expressed their interest in exploring Autodesk Inventor further for their own academic and research pursuits.

The event's success can be attributed to the expertise of the speaker, Mr. P. Pavithran, and the enthusiastic participation of the audience. It is hoped that seminars like these will continue to be organized to keep students and faculty members updated on the latest technologies and best practices in the field of engineering and design.

Resource Person,
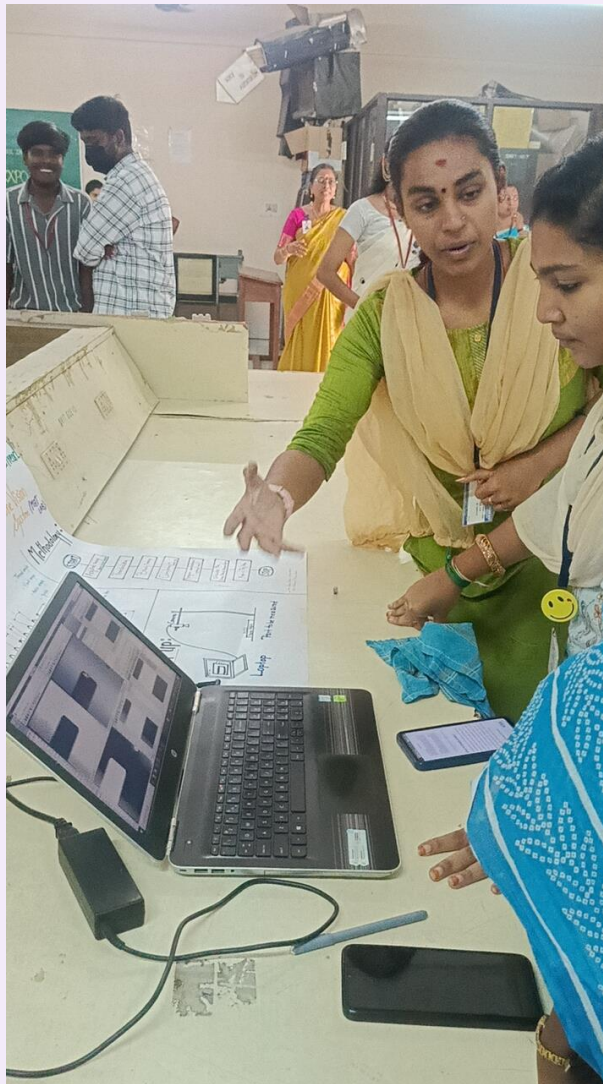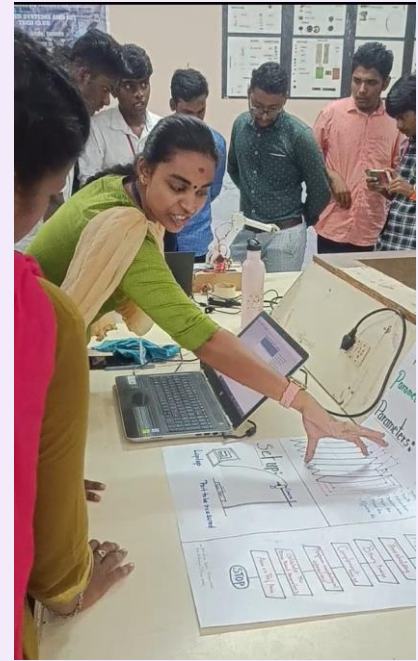Mr. P. Pavithran,
Petricore Technologies.

Coordinator,
Mr. M. Arsath Rahman,
Mechanical – HOD.

Coordinator,
Dr. J. Parthiban,
Mechatronics - HOD

The Department of **Robotics and Automation Engineering** Students Participated in **Project Expo 2023 on 15/09/2023**

Project 1: MEASURING THE SCREW THREAD PARAMETERS USING MACHINE VISION SYSTEM

Done by, M. K. Shree Janani (212620125002), IV Year - Robotics and R. M. Aishwarya (212620125301), IV Year - Robotics

Description: Machine vision system is a subset of deep learning, where images are used to predict the given scenarios to give an appropriate result. As artificial intelligence is blooming in every sector, it got its footprint in the mechanical field too. The rise in technology paves way for precision and accuracy in the manufacturing units. One of the applications is calculating the parameters of screw threads. Screws a vital part of our everyday life. The engineering work behind the calculation of the dimensions are laborious.

To save time and to improve the accuracy rate in production, MVS comes into play where an algorithm is created and tested using many samples, is employed. For this set up, we need a camera, a lighting system, a sensor and a computer to process the image. The very first step is to check whether the object under inspection is present using a sensor, then it is back lighted and several photographs are taken using camera. These photographs are sent to the computer for processing the data. There, the image from grey scale is converted to binary image with the help of thresholding followed by complementing the image. From the complemented image the ROI (Region of Interest) is extracted to apply filters in order to remove noise. The pixels of this image are then clubbed and processed using the algorithm to fetch the required data. Thus, the parameters of a screw thread are obtained in seconds.

Project 2: SERVO BASED 5 AXIS ROBOTIC ARM
Done by, P. Kameshwaran (212620125303) IV Year - Robotics , M. Mohamed Faizan (212620125307), IV Year – Robotics, and P. Jayakumar, III Year – Mechatronics (212621115307)

With the dawn of robotics culture in different domains, it's time for us to step into the emerging bot world. To witness this, our student came up with a view of creating 5 axis servo based robotic arm. A robotic arm is a manipulator, usually programmable, with similar functions to a human arm. It is made up of 6 segments joined by 5 joints. Usually, a servo motor is used to track the movement of the robotic arm. In order to pick up or move something, someone has to tell it to perform several actions in a particular order- from moving the arm, to rotating the 'wrist' to opening and closing the 'hands' or 'fingers'. So, we can control each joint through a computer interface.

Using sensors like motion and pressure sensors can detect obstacles and avoid breaking or dropping what it is carrying. The salient features are, the arm could grab things approximately in a hemisphere of 50cm. The arm is user friendly because of its interfacing with computer. The base is equipped with high torque servo. Keeping the design of the robotic arm gripper simple, as well as implementing the gripping mechanism without using gears and with one servo motors. Based on the kind of end effector this robotic arm is used to perform various jobs like for picking and placing of objects, welding purposes, spraying paints, metal drilling and blowtorches for auto assembly line robots.

A highly informative workshop titled **Clay Modelling of Automobile Exterior Cases** organized by the Department of **Robotics and Automation, Mechatronics**, and **Mechanical Engineering** on 21/09/2023

Introduction

On the 21st of September 2023, a highly informative workshop titled "Clay Modelling of Automobile Exterior Cases" was conducted by Mr. R. Raghunathan, a Business Development Consultant from the Institute of Industrial Design, a Unit of CADD Center, Porur. The workshop was organized by the Department of Robotics and Automation, Mechatronics, and Mechanical Engineering.

Workshop Overview

The workshop aimed to provide participants with hands-on experience and insights into the art and science of clay modeling, particularly in the context of designing automobile exteriors. Mr. Raghunathan, with his extensive knowledge and experience, guided the participants through the intricate process of creating clay models, a critical phase in the automotive design and prototyping process.

Key Highlights

1. Expertise of Mr. R. Raghunathan: Mr. Raghunathan's expertise in industrial design and clay modeling was evident throughout the workshop. His deep knowledge and practical experience enriched the learning experience for all participants.

2. Hands-on Clay Modeling: The core focus of the workshop was hands-on clay modeling. Participants were provided with clay and modeling tools, allowing them to create miniature automobile exteriors. This practical experience helped them gain a deeper understanding of the design principles and the importance of tactile feedback in the design process.

3. Design Principles: Mr. R. Raghunathan shared valuable insights into design principles, emphasizing the importance of form, function, and aesthetics in automobile design. Participants learned how to translate their design ideas into tangible clay models.

4. Interactive Session: The workshop included an interactive session where participants could seek guidance and ask questions. This interactive format allowed for a dynamic exchange of ideas and provided participants with personalized feedback on their clay models.

Audience Response

The workshop received an enthusiastic response from both students and faculty members. Participants appreciated the practical nature of the workshop, as it provided them with skills that are highly relevant to their academic and professional pursuits. Many expressed their interest in further exploring the field of industrial design.

The success of the workshop can be attributed to the expertise of the facilitator, Mr. R. Raghunathan, and the enthusiastic participation of the audience. Such workshops contribute significantly to the skill development and knowledge enhancement of students and faculty members alike. It is hoped that more such workshops will be organized in the future to further promote practical learning and skill development in the field of engineering and design.
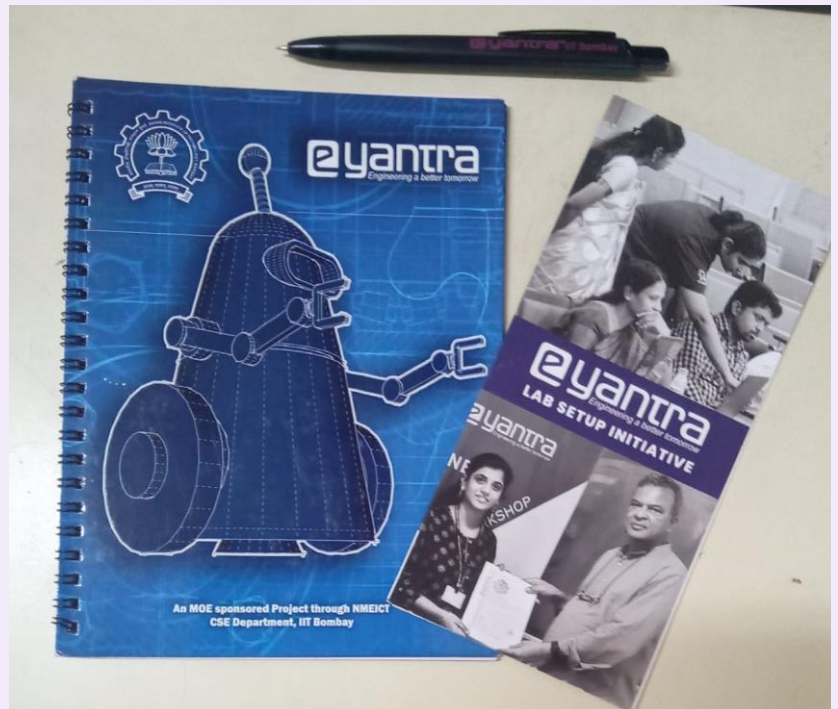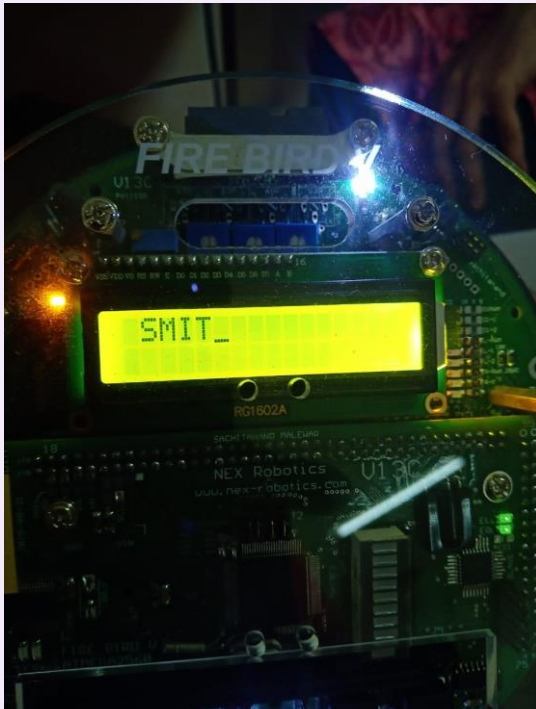
Coordinator,
Mr. M. Arsath Rahman
Mechanical – HOD.

Coordinator,
Dr. J. Parthiban,
Mechatronics - HOD

Faculties Participated, **IIT Bombay, e-Yantra** conducted Two Day Workshop on **Introduction to Robotics** at **Adhiparasakthi College of Engineering** on 22-23/09/2023

Faculties Ms. S. Sridevi, Assistant Professor, Department of Mechatronics Mrs. D. Suriyakala, Assistant Professor, and Mr. D. Eeswar Samhithan, Assistant Professor, Department of Computer Science and Engineering attended a Two Day Workshop on "Introduction to Robotics" at Adhiparasakthi College of Engineering on 22nd & 23rd September 2023 conducted by e-yantra IIT – Bombay.

Faculties had excellent hands on session on the following topics,

Introduction to Fire Bird V robot

    1. Introduction to the basic components and features of Atmega 2560 based Firebird V.

    2. This module will include discussion about the sensors, communication, power options and programming aids for Firebird V.

Introduction to AVR Micro-controller and Programming environment.

    1. I/O port programming of Atmega 2560 and writing the very first program for Firebird V.

    2. This module will also involve installation of the required software and description of the programming environment.

Simple Motion Control using I/O ports.

    1. This module involves discussion about the motor driver IC L293D and its interfacing on the Firebird V platform.

    2. Apart from this, direction control of Firebird V using I/O port assignments will form an integral part of this module.

Robot velocity control using pulse width modulation

    1. Introduction to pulse width modulation (PWM) for speed control and description of the inbuilt registers to generate PWM signal.

    2. A simple experiment to gradually increase/decrease the robot's velocity using PWM to better assimilate the topic.

Introduction to LCD interfacing

    1. Introduction to the on board 16x2 LCD and its hardware interfacing on the Firebird V platform.

    2. Description about the command sequences for LCD interfacing and allied hands on experiments related to LCD programming.

Analog sensor interfacing using Analog to Digital conversion

　　　*Interfacing with white line sensors

　　　*Interfacing with Infrared range finder sensor

　　　*Interfacing with Infrared range finder sensor

　　　1. Description of the inbuilt ADC module and the sensors connected to its channels on the Firebird V.

　　　2. Hands on experiment to read and interpret the digital equivalent of the analog value indicated by the on board sensors.

Interrupt programming

　　　*Closed loop position control of robot using position encoders

　　　1. Overview about the general mechanism for interrupt handling, description of the inbuilt position encoders and using the combination of the two to control the distance traversed by the robot.

　　　2. An experiment based on precise control of linear as well as angular motion of Firebird V will also be a major part of this module.

Robot programming for white line following

　　　1. Introduction to basic white line following algorithm.

　　　2. An experiment to program the robot to follow a line on a white line strip

　　　The event coordinators were **Dr. C. Dhaya,** Professor& HEAD and **Dr. R. Srivel**, Assistant Professor, Department of Computer Science and Engineering, Adhiparasakthi Engineering College.

　　　Chief guest details from e-yantra, IIT – Bombay - **Prof. Kavi Arya. Ms. Deepa Avudiappan, Ms. Isha Kamone, and Mr. Jerish Abijith Singh. A. S**
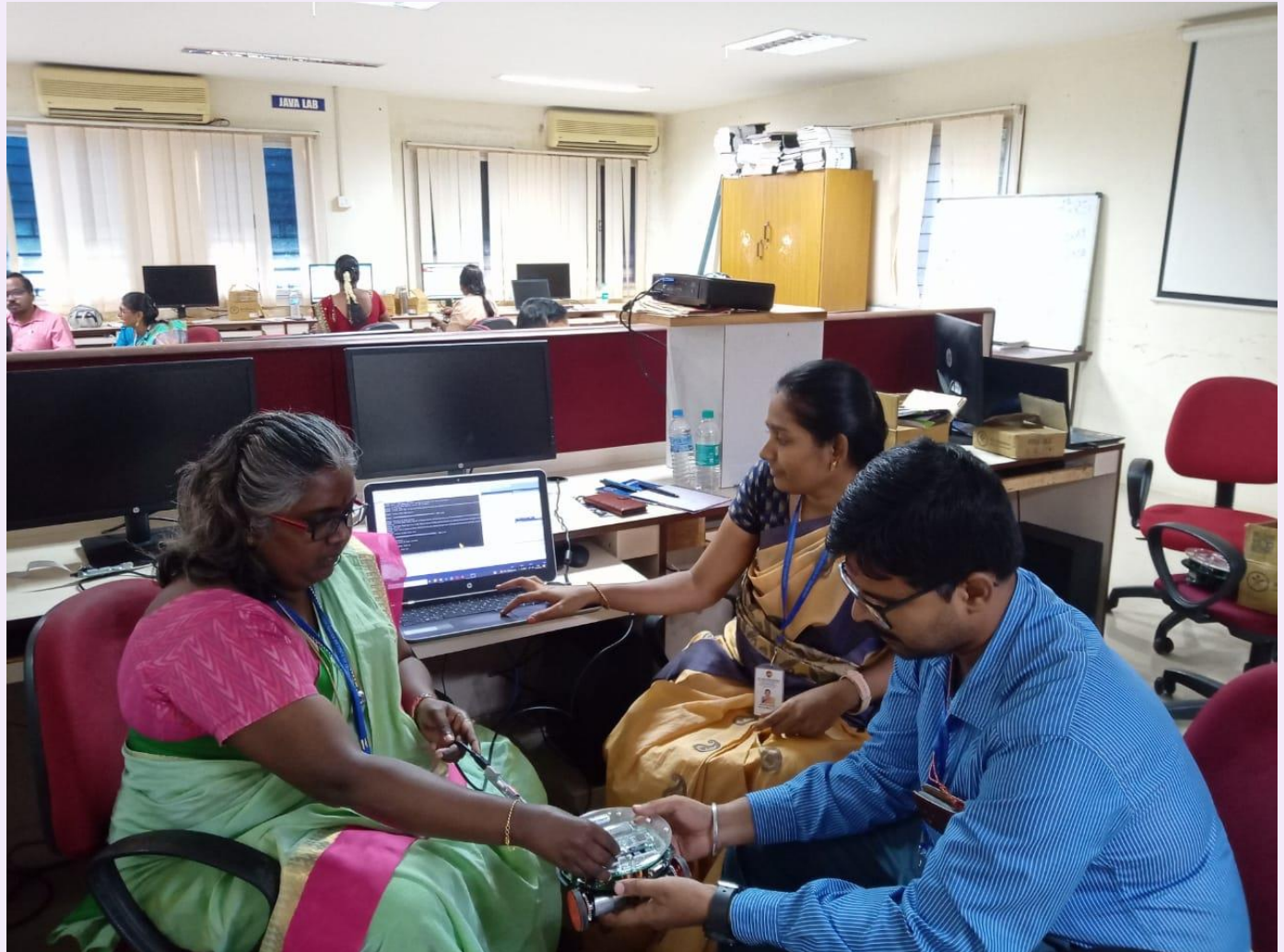
The **Steal the Show** event, organized by the **Azimov Club** of the **Robotics and Automation Department** on **23/09/2023**

Coordinator,
Mrs. R. Amutha,,
Asst. Prof – Robotics.

The Department of **Information Technology** - **Techno Tuners** Club conducted a **Carrom Competition** on **09/09/2023**

Introduction: The IT Department "Techno Tuners" Club conducted a Carrom Competition on September 9, 2023. The competition was open to all students of the institute. A total of 10 teams of various departments participated in the competition.

Rules and Regulations: The competition was played in accordance with the following rules and regulations:

- Each team consisted of two players.
- The competition was played in a knock-out format.
- The team that pocketed all of their coins first won the match.
- In case of a tie, a sudden death match was played.

Conclusion: The Carrom Competition was a great success. All the participants played with great enthusiasm and sportsmanship. The competition was a good opportunity for the students to showcase their carrom skills and to interact with each other.

Winners List - Boys			
Register Number	**Name of the Student**	**Department / Year**	**Prize**
212620103311	R. Rahul	Civil / IV	I
212620125307	M. Mohamed Faizan	Robotics / IV	I
212620105306	S. Dharani	EEE / IV	II
212620105305	R. Dhanush	EEE / IV	II

Winners List - Girls			
Register Number	**Name of the Student**	**Department / Year**	**Prize**
212620205001	P. Charuki	IT Final year	I
212620205004	J. Mahalakshmi	Final year	I
212620121006	L. Priyadharshini	BME Final year	II
212620121007	V. Shuruthi	BME Final year	II

Coordinator,
Mr. N. Senthil kumar,
Asst. Prof - IT

Coordinator,
Mr. A.G Ignatius
Asst. Prof - IT

The Department of **Information Technology** Students Participated in **Project Expo 2023** on **15/09/2023**

Project Title: WEATHER TRACKER

Students Name: SUDHARSHAN J and PRAKASH R

Project Guide: Mr. A.G IGNATIUS, Asst. Prof - IT

A weather tracker application is a software program or mobile app that allows users to monitor and stay informed about current and forecasted weather conditions for specific locations. By entering the name of the place (such as Chennai, Delhi, Dubai, etc.) and clicking the search button, you will find the accurate value of the weather in your mobile, tablet, or mobile application. It will work in both online and offline modes. It is mainly used when traveling long distances, such as mountain, hills, valleys, etc. These applications typically provide various weather-related information such as temperature, humidity, wind speed, precipitation, UV index, and more. Here are some common features and functionalities you can find in a weather tracker application:

1. Current Weather Data: Display real-time weather conditions for a selected location, including temperature, humidity, wind speed and direction, pressure, and visibility.

2. Weather Forecasts: Provide short-term and long-term weather forecasts, often for the next few hours, days, or even weeks, with details on expected weather patterns.

3. Radar and Satellite Maps: Include interactive maps with radar and satellite imagery to visualize precipitation, cloud cover, and weather patterns.

4. Location-Based Weather: Allow users to set or automatically detect their location to provide localized weather information.

5. Alerts and Notifications: Send weather alerts and notifications for severe weather events, such as storms, hurricanes, or extreme temperature changes.

**Some popular weather tracker applications include:**

1. The Weather Channel

2. AccuWeather

3. Weather Underground

4. Dark Sky (now part of Apple)

5. Weather.com (by Weather.com)

6. Windy

Project guide,
Mr. A.G Ignatius,
Asst. Prof – IT.

The Department of **Information Technology** celebrated **Software Freedom Day** by hosting a webinar on the topic of **Free and Open Source Software** on **16/09/2023**
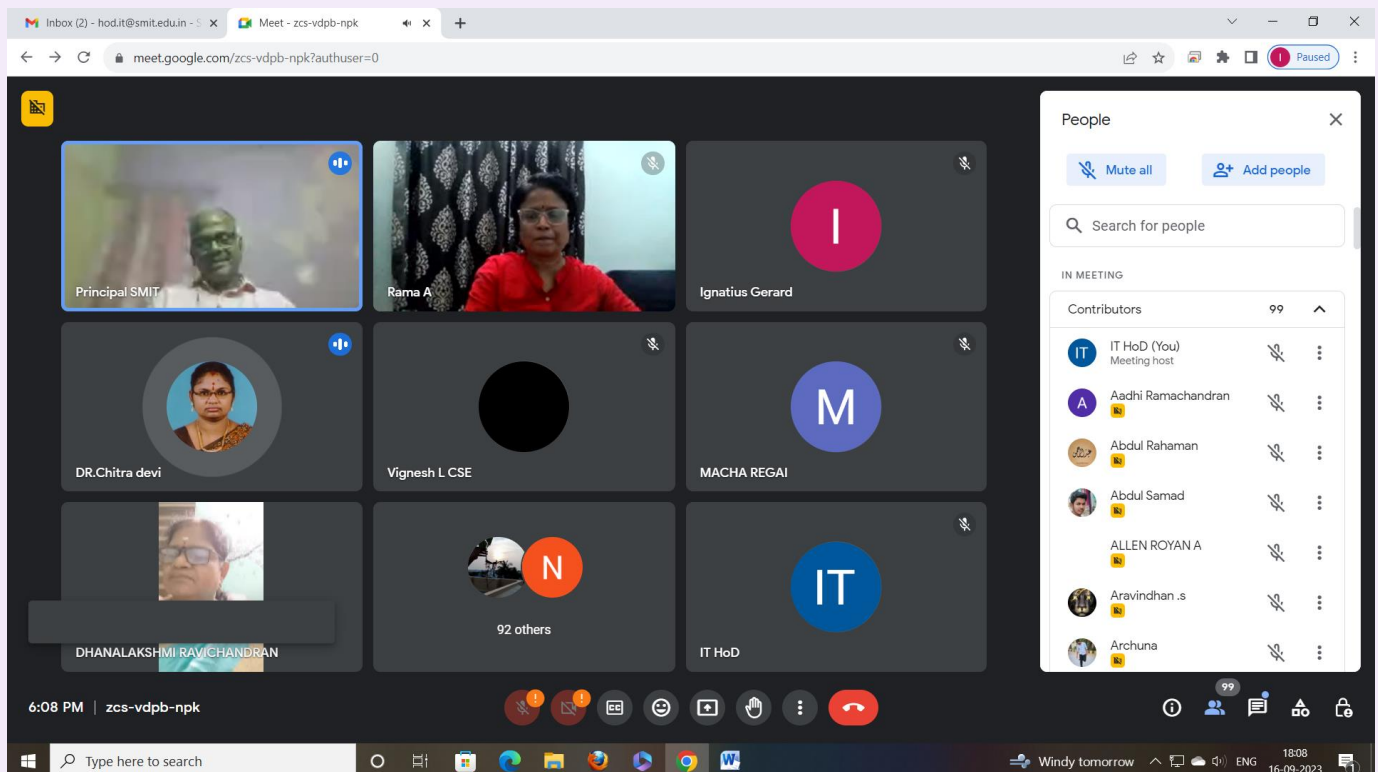
On September 16, 2023 at 6:00 PM, we celebrated Software Freedom Day by hosting a webinar on the topic of "Free and Open Source Software". The webinar was delivered by Dr. Rama Arunmozhi (ASSOCIATE PROFESSOR) SAVEETHA SCHOOL OF ENGINEERING.

The webinar was attended by The Principal, HODs, Staff, and students of SMIT Dr. Rama Arunmozhi spoke about the importance of FOSS, its benefits, and its impact on computing. She also discussed some of the most popular FOSS projects and how they are being used in the real world.

The webinar was a great success, and the audience was very engaged. The attendees asked many questions, and Dr. Rama Arunmozhi answered them all

Dr. Rama Arunmozhi highlighted the following benefits of FOSS:

Cost-effectiveness: FOSS is typically free or very low-cost to use, which can save organizations and individuals a significant amount of money.

Flexibility and customization: FOSS is often more flexible and customizable than proprietary software, allowing users to tailor it to their specific needs.

Security and reliability: FOSS is often more secure and reliable than proprietary software, as it is open to scrutiny and contributions from a global community of developers.

At the end of the webinar, the principal thanked Dr. Rama Arunmozhi for her informative and engaging presentation. He also encouraged the attendees to learn more about FOSS and to use it in their own lives.

Coordinator,
Mr. A.G Ignatius,
Asst. Prof – IT.

Coordinator,
Mrs. S. Dhalakashmi,
IT – HOD.

Chief guest,
Dr. Rama Arunmozhi, Saveetha
School of Engineering.

The Department of **Bio-Medical** Students Participated an Industrial Visit to **North Chennai Thermal Power Station** located in **Athipattu** on **12/09/2023**

INTRODUCTION:

Our college organized an Industrial visit to Ennore Thermal Power Station on 12.09.23,the main purpose of this visit is to know and better understood the process that occurs in thermal power plant. In this visit faculty members and students of our college were participated.

OBJECTIVE:

The main objective of this Industrial visit is to learn the functioning of a coal based steam power plant. How the power is supplied to the entire Chennai, was explained. To understand how coal has been converted into electricity. It has several Turbines and Boilers for the process to take place. This visit created awareness to students how to utilize electricity safely and properly.

STRUCTURE OF INDUSTRIAL VISIT:

- At 10 O'clock, we started our trip with staffs and students from college.
- Nearly 2hr of travel we reached to the power station by 12pm. We visited the mines and several units of that power station.
- We visited the control unit where the whole process is checked continuously and monitored by the workers. It has 3 main unit it includes Boiler, Turbine, Steam.
- The place is full of safety measures and is under CCTV control. Nearly 50 tons of coal are shifted weekly for power generation.
- The power generated in this power station is supplied throughout Chennai city.

CONCLUSION:

Overall, the Industrial visit was very interesting and informative. The various processes involved in collection, streaming and distribution in the energy sector was understood. We know about how power is generated from coal and supplied to various parts of Chennai city.

DID YOU KNOW?

- The world's first computer mouse was invented at Stanford Research Institute (SRI) in the 1960s. The equipment was called an "X-Y position indicator for displays".

- The name 'Mouse' was coined for the instrument as the cable sticking out of it reminded Engelbart of a rodent's tail.

The Department of **Bio – Medical Engineering** Students Participated in **Project Expo 2023** on **15/09/2023**

Project 1 : ECG MONITORING SYSTEM USING ARDUINO AND AD8232

Project 1 : ECG MONITORING SYSTEM USING ARDUINO AND AD8232
Done by, L. Priyadharshini (212620121006) , and V. Suruthi (212620121007) IV Year – BME.
Description : Cardiac disease is a concern as people age. In fact, heart problems are fairly common in men over the age of 50 but are increasingly affecting younger adults, regardless of gender.

This is attributed, at least partially, to more sedentary and stressful lifestyles and unhealthy habits. But genetics may also play a role. Electrocardiogram (ECG) is a common medical test for assessing cardiac function by measuring the electrical activity of the heart, although other tests may also be done. ECG is considered a fairly routine and sufficient indication of heart health and is performed with 3, 5, 12, or 15-lead ECG/EKG machines. Interestingly, it's also possible to design a low-cost ECG machine using Arduino and an AD8232 ECG sensor. AD8232 is a cost-effective, ECG analog sensor for measuring the electrical activity of the heart. Essentially, AD8232 is an integrated signal conditioning block for ECG and other potential measurements. It's designed to extract, amplify, and filter small bio potential signals in noisy conditions.
Project Guide : Mrs. K. Swathysree, HoD – BME.

Project 2 : PULSE OXIMETER AND SPO2 MONITORING SYSTEM USING ARDUINO

Project Guide,
Mrs. K. Swathysree,
HoD - BME

Project 2 : PULSE OXIMETER AND SPO2 MONITORING SYSTEM USING ARDUINO
Done by, S. Aakash (212620121001), and K. Anand (212620121002) IV Year - BME

Description : If a person can monitor his/her oxygen saturation level intermittently, then he/she can identify his/her condition early Bid thus he/she can seek a doctor's help. This paper reports the design, simulation, and implementation of a low-cost pulse oxygen saturation measurement device based on a reflective photoplethysmography (PPG) system using an integrated circuit sensor as the fundamental component of this health status checking device. The measurement of the physiological parameter is the blood oxygen saturation level (SpO2) in the peripheral capillary.
Project Guide : Mrs. K. Swathysree, HoD – BME.

Project 3: VOICE CONTROL SMART WHEEL CHAIR

Project Guide,
Mr. G. Gowrishankar,
Asst. Prof - BME

Project 3: VOICE CONTROL SMART WHEEL CHAIR,
Done by, S. Lokeshwaran (212621121006), T. Dineshkumar (212621121004), and R. Thriveni (212621121008) III Year – BME

Description : A wheelchair is a mechanically operated device that allows the user to move independently. This minimizes the user's personal effort force required to move the wheelchair wheels. Furthermore, it allows visually or physically handicapped people go from one location to another. Voice commands and button controls can be used to operate wheelchairs. Different types of smart wheelchairs have been created in the past, but new generations of wheelchairs are being developed and utilized that incorporate the use of artificial intelligence and therefore leave the user with a little temper with. The project also intends to develop a comparable wheel chair that has some intelligence and so assists the user in his or her mobility.

Project Guide : Mr. G. Gowrishankar, Asst. Prof - BME

The Department of **Bio-Medical** Organized a Placement Program from **Republic Healthcare** Company on **21/09/2023**

In this academic year, we conducted numerous sessions to groom the students into enhanced and confident personalities and help them achieve higher standards of progression as they graduate into successful beings. During the Academic year 2023-24, the department of BioMedical Engineering strived to achieve its set standards and successfully conducted various events for the benefit of the students. Our College Principal, Dr. K. SOMASUNDHARAM facilitated all the Placement events, Mrs. K. Swathysree HOD/BME and Mr. G. Gowrishankar, AP/BME organized all the events of this placement.

"Republic Healthcare (Care for a Common Man) is one of the leading medical equipment supplier companies, specializing in Respiratory and critical care equipment, based out of Chennai. Mr. Feroze Rahmath Khan, Managing Director at Republic Healthcare.   The following list details the initiatives of the placement during the session 2023-24 on 21.09.2023 (Thursday).

- At 11 O'clock,pre placement talk given by republic healthcare placement team
- Around 11.30, they started the interview process with written exam.
- The written exam was conducted for one hour.
- After completion of written exam, they started HR round for each student one by one.
- Finally, final round was conducted by MD of Republic Healthcare Feroze Rahmath Khan
- Interview results will be sent in official mail to the BME Department.
  The Following students are placed in Republic Healthcare pvt ltd:
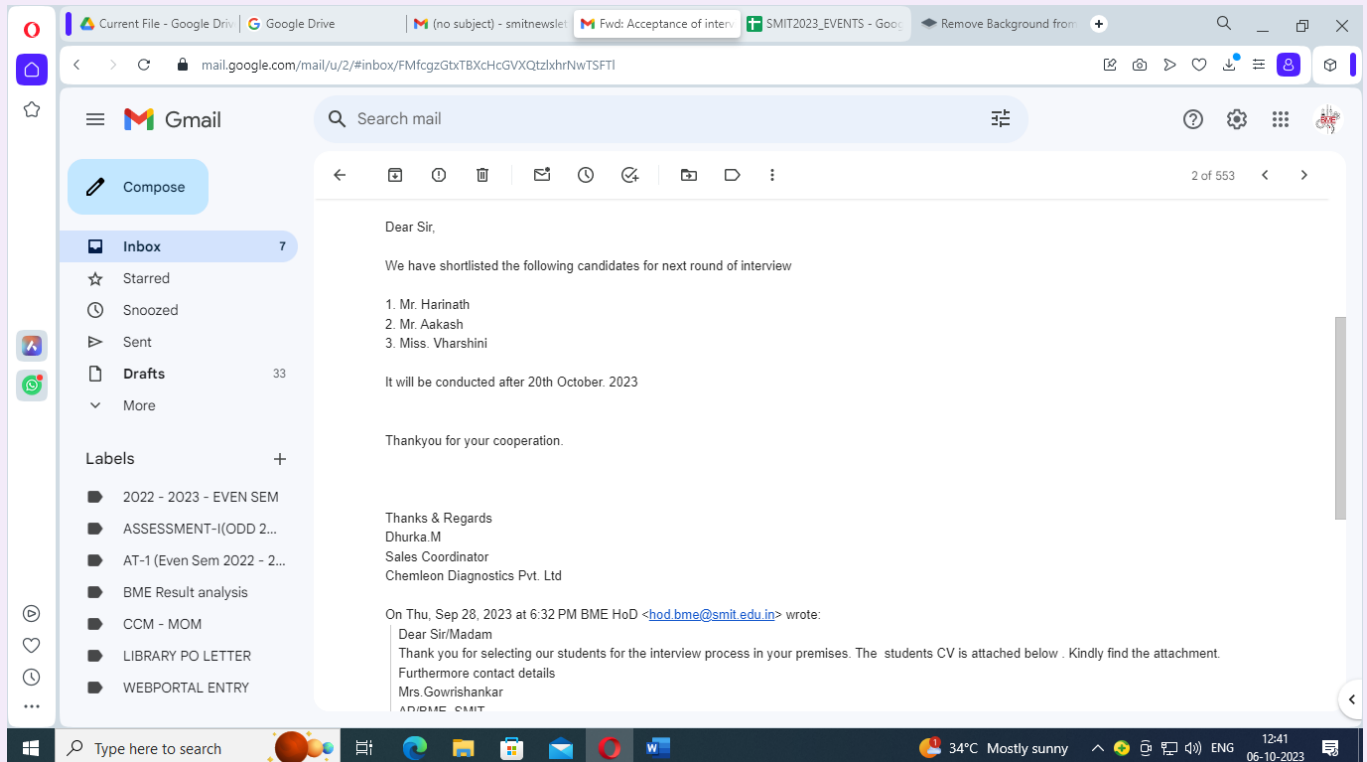 **1. Harinath V (212620121003) and 2. L. Joan Cynthia (212620121004)**

Organized by,
Mr. G. Gowrishankar,
Asst. Prof - BME

Organized by,
Mrs. K. Swathysree,
HoD - BME

The Department of **Bio-Medical** Organized a Placement Program from **Chemleon Diagnostics Pvt Ltd** Company on **29/09/2023**

In this academic year, we conducted numerous sessions to groom the students into enhanced and confident personalities and help them achieve higher standards of progression as they graduate into successful beings. During the Academic year 2023-24, the department of BioMedical Engineering strived to achieve its set standards and successfully conducted various events for the benefit of the students. Our College Principal, Dr. K. SOMASUNDHARAM facilitated all the Placement events, Mrs. K. Swathysree HOD/BME and Mr. G. Gowrishankar, AP/BME organized all the events of this placement.

"Chemleon Diagnostics Pvt Ltd is one of the leading medical equipment supplier companies, specializing in Respiratory and critical care equipment, based out of Chennai. Mr. S. Murali, Technical Head and HR at Chemleon Diagnostics Pvt Ltd.

The following list details the initiatives of the placement during the session 2023-24 on 29.09.2023 (Friday).

- At 2 O'clock, pre placement talk given by Chemleon Diagnotics placement team
- Around 02.30 p.m., they started the interview process with Tele-calling and it was conducted by Mr.S. Murali, Technical Head and HR at Chemleon Diagnostics Pvt Ltd.
- Interview results will be sent in official mail to the BME Department.

The Following students are placed in Chemleon Diagnostics Pvt Ltd:

1. **Harinath V (212620121003)**
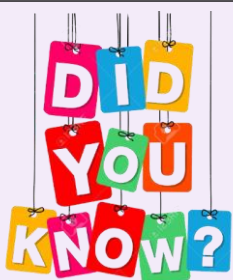2. **Vharshini S J (212620121008)**
3. **Aakash S (212620121001)**

Organized by,
Mr. G. Gowrishankar,
Asst. Prof - BME

Organized by,
Mrs. K. Swathysree,
HoD - BME

The Department of **Pharmaceutical Technology** Organized a **Cooking without Fire on 02/09/2023**

DID YOU KNOW?

- THE WORLD CONSUMES 60 BILLION ASPIRIN EACH YEAR.

Approximately 35,000 metric tons of aspirin are produced in factories around the world each year. First derived from the bark of willow trees way back in 1899, aspirin remains one of the most widely used drugs on the planet. Today, over 60 billion aspirin tablets are consumed worldwide each year (with Americans consuming about half of them).

The dose Designator club is organized the activity "Cooking without Fire" on September 02, 2023, at 02:00 p.m. at the Room no: 217 EEE Department 3rd floor, The competition was conducted with a view to create awareness about the nutritional value of food cooked without flame, the necessity and advantages of healthy eating and to encourage students to stay away from the junk food.

Through this activity the students learnt the spirit of teamwork, culinary skills, appreciating the hard work put into cooking. The aim of the activity was also to provide a platform for students to showcase their talent and explore new areas of interest. The show ended with the prize distribution ceremony, where the winners were applauded with prizes.

Winners List			
Register Number	**Name of the Student**	**Department / Year**	**Prize**
212621106004	E. Ilakiya	ECE / III	I
212621106012	S. Ramya Sri	ECE / III	
212621106013	V. Shekina Shini	ECE / III	
212620106305	P. Jashwanth	ECE / IV	
212620205004	J. Mahalakshmi	IT / IV	II
212620205001	P. Charuki	IT / IV	
212621205006	R. Devarajan	IT / III	
212620106001	A. Mohammed Ikramullah	ECE / III	III
212620121002	K. Anand	BME / IV	
212620121001	S. Aakash	BME / IV	
212620125307	M. Mohamed Faizan	ROBO / IV	

Coordinator,
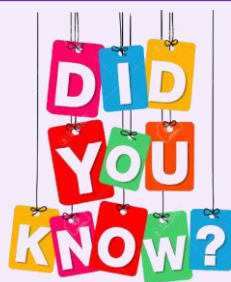Mrs. P. V. Naga Lakshmi
Asst. Prof - Pharma

Judge
Mrs. S. Dhalakashmi,
IT – HOD.

Judge
Mrs. P. Vanitha,
EEE – HOD.

Judge
Mrs. D. Shanthi Chelliah,
ECE – HOD.

- **THE USA MAKES UP 40% OF THE WORLDWIDE PHARMACEUTICAL INDUSTRY.**

  The U.S. pharmaceutical industry is the largest in the world, making up about 40% of the worldwide drug development, manufacturing, and revenue generation. And half of the world's top 10 pharmaceutical companies are in America, including the headquarters for Johnson & Johnson, Pfizer, Merck and Co., AbbVie, Eli Lilly and Co., and Abbott Laboratories. In fact, Johnson & Johnson's revenue alone reached $82.6 billion in 2020.

The Department of **Pharmaceutical Technology** Organized an **Awareness Program on GATE EXAM 2024 & Its Opportunities** on **08/09/2023**

Department of Pharmaceutical Technology, Associated with Dose Designator Club organized a seminar, on the topic "Awareness Program on GATE Exam 2024 & Its Opportunities" on 8th September 2023, Friday, from 01.30 pm to 02.30 pm at SMIT Seminar Hall with an aim of encouraging and providing a platform for our students to understand the need of GATE exam and its linked benefits.

Ms. M. S. Vijayalakshmi, M.Tech., Assistant Professor, Department of Pharmaceutical Technology was the resource person of the event. She explicated the importance of the GATE examination, its direct and indirect benefits and also guided students how to pursue the exam and excel in it. She also explained future opportunities in government sector placements and for after clearing the GATE examination. Finally, there was one to one discussion and clarification of queries raised by students.

TOPICS COVERED

- ➢ GATE 2024
- ➢ Objectives
- ➢ Opportunities
- ➢ GATE Exam 2024: What's New?
- ➢ Why Should We Take GATE exam?
- ➢ GATE 2024 Highlights
- ➢ GATE 2024 Important Dates
- ➢ GATE 2024 Examination Papers
- ➢ GATE 2024 Two-paper Combinations
- ➢ Application Fees
- ➢ GATE 2024 Eligibility Criteria
- ➢ Question Paper Pattern
- ➢ Marking Scheme - Distribution of Marks and Questions
- ➢ Syllabus Content
- ➢ Preparation Strategy for GATE Exam

Resource Person & Coordinator, Ms. M. S. Vijayalakshmi Asst. Prof - Pharma

DID YOU KNOW?
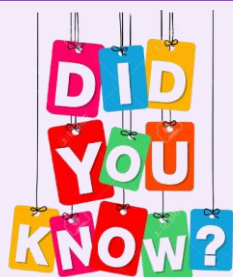
- • **ALMOST 70% OF AMERICANS TAKE AT LEAST ONE PRESCRIPTION DRUG.**

    Data shows us that 7 out of every 10 American adults between 40 and 79 years old are on prescription drugs. And according to the CDC, 69% of Americans within this age group take at least one prescription drug (and over 22% take at least five).

The Department of **Pharmaceutical Technology** Students Participated in **Project Expo 2023** on **15/09/2023**
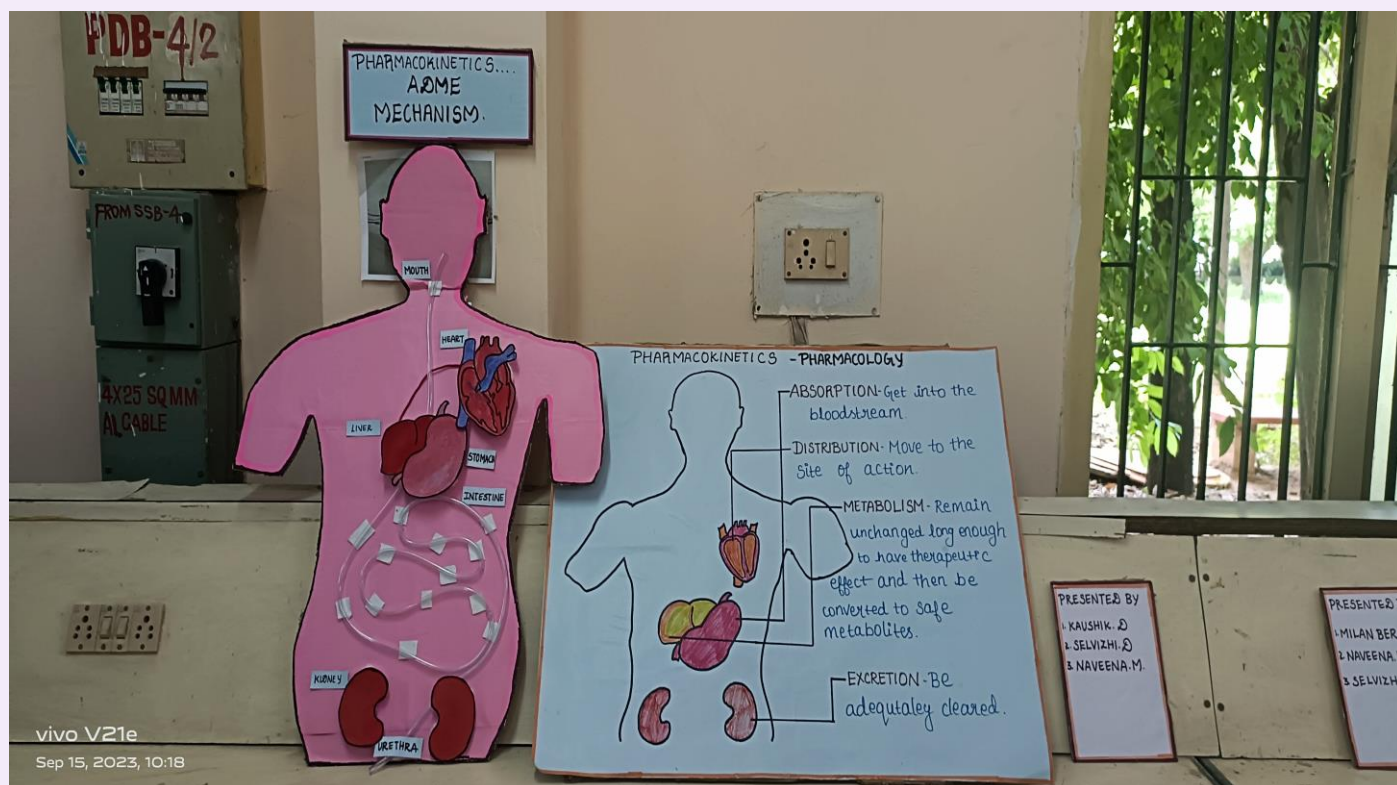
Project Title : PHARMACOKINETICS - ADME MECHANISM
Done by, KAUSHIK.D (212620237001d) **(4th YEAR) SELVIZHI.D** (21262123 7004) **(3rd YEAR)**
NAVEENA M (21262 1237003) **(3rd YEAR)**

Absorption, distribution, metabolism, and excretion, also known as "ADME," are the internal processes that describe how a drug moves throughout and is processed by the body. ADME is assessed through the collection of data in clinical pharmacology studies and helps explain the PK processes at play for any given drug.
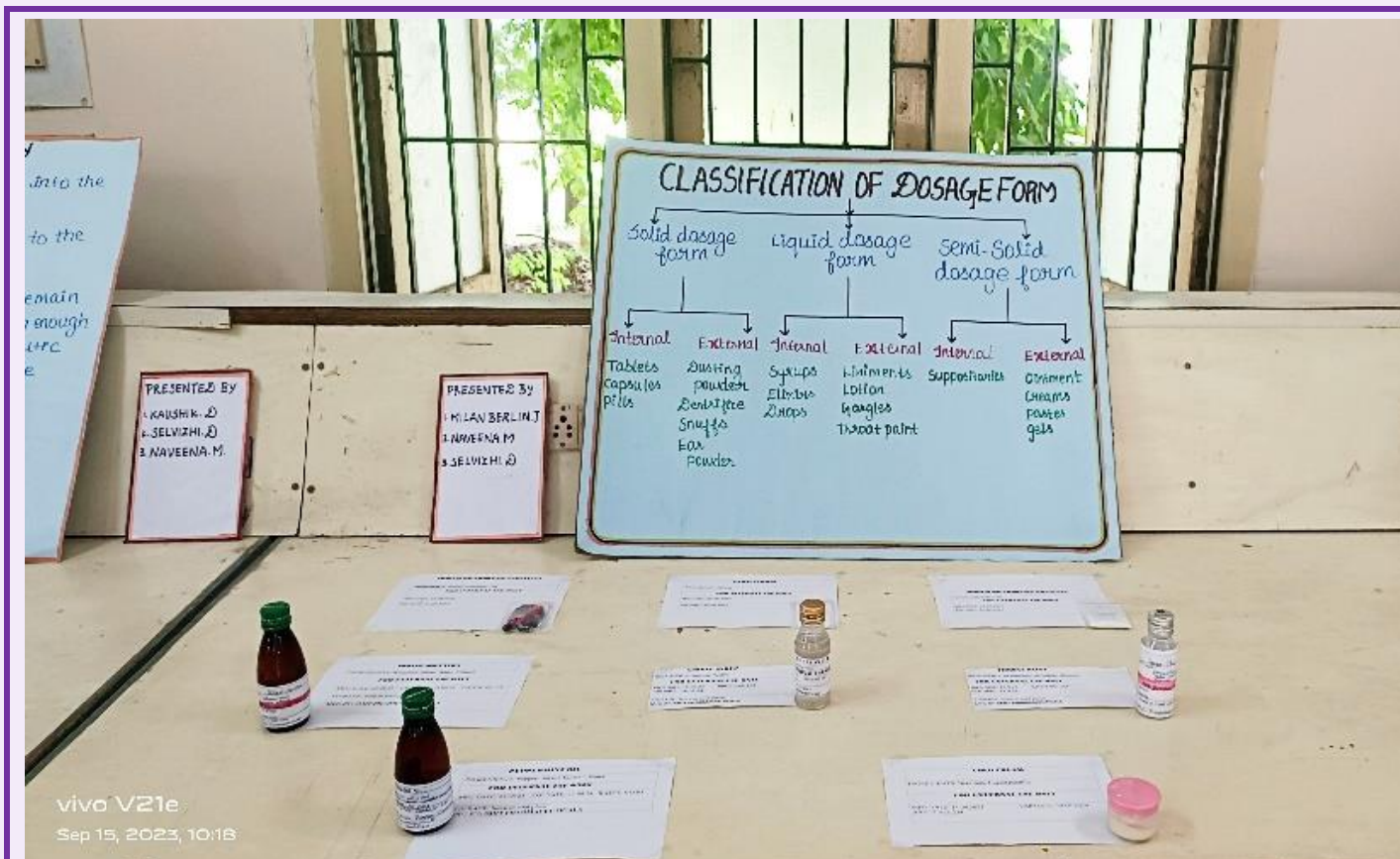
Projects Coordinator,
Ms. M. S. Vijayalakshmi
Asst. Prof - Pharma

Project Title: TYPES OF DOSAGE FORMS
Done By, MILAN BERLIN J (212621237002) (3rd YEAR), NAVEENA M (212621237003) (3rd YEAR), SELVIZHI D (212621237004) (3rd YEAR)

Different pharmaceutical dosage forms are created to help patients take their medication in the most effective way possible. Depending on the patient's needs, their doctor will prescribe a specific dosage form of medication. Some of the most common pharmaceutical dosage forms includes,

SOLID DOSAGE FORMS: It includes tablets, capsules, powders, and granules.

LIQUID DOSAGE FROMS: It includes solutions, suspensions, elixirs, and syrups. The solutions are clear and contain dissolved drugs.

SEMI SOLID DOSAGE FORM: It's a type of pharmaceutical dosage form that is a semisolid material. This type of dosage form can be in the form of a cream, gel, lotion, ointment, paste, or suppository.

CONCULUSION:

At last, we explained our project to the judges and students from various departments. We thank our principal and vice principal for organizing the event on Engineers Day and to the HOD, faculty for supporting us to do the project.

The Department of **Pharmaceutical Technology** organized an **Industrial Visit** to **Sai Mirra Innopharm Pvt. Ltd**, SIDCO Industrial Estate, Ambattur, Chennai on **30/09/2023**

A complete report on industrial visit organized by Sri Muthukumaran Institute of Technology for the students of Pharmaceutical Technology, Biomedical Engineering and Electronics and Communication Engineering in order to get the practical knowledge about "Manufacture of dosage forms carried out by Sai Mirra Innopharm Pvt. Ltd, SIDCO Industrial Estate, Ambattur, Chennai.

Sri Muthukumaran Institute of Technology, Department of Pharmaceutical Technology organized an industrial visit on 30th September, 2023 to Sai Mirra Innopharm Pvt. Ltd, SIDCO Industrial Estate, Ambattur, Chennai. Ms.Vijayalakshmi M S, Assistant Professor, Department of Pharmaceutical Technology was the Co-Ordianator of the visit. We started travelling from the college campus at 9:30 am via our college bus. Totally 34 students along with 4 faculty members were there in the journey.

COMPANY PROFILE:

They are a well renowned formulation company of a fully integrated pharmaceutical business group in India, with a strong foothold in R&D, Manufacturing and Marketing of the API, Formulations, CRO and Bio-equivalence for both domestic and international markets. Sai Mirra was established in the year April 2001 by Mr. V. S. Raman there while the founder of an ARL group of companies.

In September 2012, Sai Mirra was taken over by a new management team, which is known for its professional ethics and value creation in the Indian Pharmaceutical Industry. This transformation has comfortably placed us in a fast-track global market with a strong focus on Quality, Innovation and Research.

JOURNEY TO THE COMPANY:

We reached the company by 10.35 am, Ms. A.Jayashree, Executuve - HR from the company received us from the entrance. We are taken to the conference hall of the company. The head of the Formulatiion R&D department, Mr. Murugan gave us a brief explanation about the several departments in their company and their functions. After that HR, Mr. Balachandran accompanied along the visit to various departments in the company. First we entered the manufacturing department and seen the manufacturing of tablets, suspensions and syrups, the staff in that department explained about the equipments, machines and process of manufacturing briefly. We have seen the tablets punching machines, granulators, multi mill, several tanks used for the manufacture of the Solid and liquid dosage forms and filling process in liquid dosage forms.

After that we entered the storage department and seen how they store their raw material and finished products. They all are maintained at 25oc. They had separate areas for the collection of the samples and pass by areas. At last, we entered the packaging areas they had automatic machines for the packaging the tablets in the cartons and for labelling of the syrups.

At 2.30 PM we left the company after having the snacks provided by them. we reached the college by 3.30 pm.

| Coordinator, & Accompanied by, Ms. M. S. Vijayalakshmi Asst. Prof - Pharma | Accompanied by, Mr. G. Gowrishankar, Asst. Prof - BME | Accompanied by, Mrs. P. V. Naga Lakshmi Asst. Prof - Pharma | Accompanied by, Mrs. J. Preethi, Asst. Prof - Pharma |

DID YOU KNOW?

- **PENICILLIN HAS SAVED OVER 200 MILLION LIVES.**

Would your parents and grandparents be alive without penicillin? Would you?

Since its accidental discovery in 1928, and subsequent use as an antibiotic starting in 1942, penicillin has become the most successful drug in the world. It is estimated to have saved over 200 million human lives.

Penicillin was essential during WWII, saving the lives of nearly one in seven British soldiers wounded in battle. It cured and prevented deadly infections from wounds and surgeries. It was also used to treat pneumonia, diphtheria, scarlet fever, gangrene, syphilis, and gonorrhea. Today, the antibiotic continues to treat severe bacterial infections.

All about Teachers Day Celebration 2023

All about Teachers Day Celebration 2023

All about Teachers Day Celebration 2023

The Department of **Science and Humanities and Information Technology** Organized a **Teachers Day Celebration** on **05/09/2023**

On the 5th of September, Sri Muthukumaran Institute of Technology College celebrated Teachers' Day with great fervor and enthusiasm. The day was dedicated to honouring the dedication, hard work, and invaluable contribution of our esteemed faculty members who play a pivotal role in shaping the future of our students. The celebration was a grand success, showcasing our deep appreciation for the tireless efforts of our teachers.

Decorations and Ambiance: The college campus was adorned with vibrant decorations. The corridors and classrooms were adorned with colorful banners, balloons, and posters expressing gratitude to our teachers. The atmosphere buzzed with excitement as students and staff joined hands to create a warm and welcoming environment for the occasion.

To make the day special our college principal Dr. K. SOMASUNDARAM, Vice principal Dr. V. Anitha, and Administrative officer's Mr. T. Sudhakar speech make our teachers, to feel proud and students organized a cultural extravaganza that featured a mix of traditional and contemporary performances. The program included with student organized lots of fun gaming activity for teachers.

A formal ceremony was held to honor our teachers. The college management presented tokens of appreciation to our distinguished faculty members for winning the game. This gesture was met with heartfelt applause and gratitude from the teachers.

Teachers' Day was not just about celebration but also about fostering a deeper connection between students and faculty. Interactive sessions were organized where students had the opportunity to engage in open dialogues with their professors. This created a platform for students to express their thoughts, seek guidance, and build a stronger teacher-student bond.

The Teachers' Day celebration at Sri Muthukumaran Institute of Technology College was a remarkable event that brought the entire college community together. It was a day filled with appreciation, warmth, and gratitude for our teachers' tireless dedication. The event served as a reminder of the pivotal role our educators play in shaping the future of our students and the nation as a whole. As we concluded the celebrations, there was a sense of renewed commitment to uphold the values of education and the importance of nurturing strong teacher-student relationships. We look forward to continuing this tradition in the years to come, celebrating our educators and their invaluable contributions to our college. The program ends with vote of thanks by the students.

Coordinator,
Mrs. S. Dhalakashmi,
IT – HOD.

Coordinator,
Mrs. K. Macha regai
HoD – S&H.
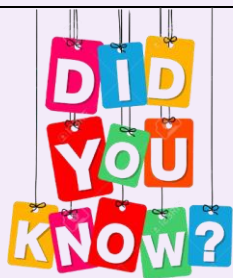
- Helium is lighter than air
Our final fun chemistry fact is that helium balloons float because helium (also present in all the stars and abundant throughout the universe) is lighter than air. This causes it to float, a slight illusion but yet again, another fun science fact. So yes, unfortunately, it is not magic that causes helium balloons to float!
- The only solid elements that assume liquid form at room temperature are bromine and mercury. However, you can melt gallium by holding a lump in the warmth of your hand.
- Unlike many substances, water expands as it freezes. An ice cube takes up about 9% more volume than the water used to make it.

The Department of **Science and Humanities** Organized a **First Year Inaugural Function** on **11/09/2023**

All about First Year Inaugural Function

The Department of **Science and Humanities** Organized a **First Year Inaugural Function** on **11/09/2023**

The first year inaugural function was held on 11.09.2023 at Mechanical Auditorium. The event marked the beginning of an exciting journey in the field of engineering and was a momentous occasion that brought together students, faculty, dignitaries, and engineering enthusiasts.

In keeping with tradition, the lighting of the lamp ceremony took place, symbolizing the illumination of knowledge and the path ahead in the engineering field. This symbolic gesture was a reminder of the importance of wisdom and learning in the journey of an engineer.

The function commenced with a warm welcome extended to all attendees by Principal Dr. K. Somasundharam, B.E., M.E., Ph.D who emphasized the significance of the event in fostering innovation, collaboration, and excellence in the world of engineering. The venue was adorned with engineering-themed decorations that set the tone for the evening.

One of the highlights of the event was the presence of our esteemed guest of honor, Principal Dr. K. Somasundharam,B.E., M.E., Ph.D and vice principal Dr. V. Anitha, Ph.D along with Administrative officer Sudhakar and all Head of the Departments. Their insightful keynote address captivated the audience as they shared their experiences and vision for the future of engineering. Their words resonated with everyone present, inspiring a sense of purpose and enthusiasm among the budding engineers.

The inaugural function was not only a moment of celebration but also a declaration of our collective commitment to excellence in engineering. It sets the stage for what promises to be an exciting journey filled with innovation, learning, and collaboration. With the enthusiasm and inspiration garnered from this event, we are ready to embark on new horizons and make meaningful contributions to the world of engineering.

We extend our sincere thanks to all who made this inaugural function a resounding success and look forward to the exciting endeavors that lie ahead. The program ends with a vote of thanks to our esteemed Principal, Vice principal, Administrative officer, Ahead of all departments, Students and Parents.

Coordinator
Dr.V. Ramesh,
Assoc. Prof – S&H

Coordinator,
Mrs. R. Ramya,
Asst. Prof – S&H

Coordinator,
Mrs. K. Macha regai,
HoD – S&H

DID YOU KNOW?

- If you pour a handful of salt into a full glass of water, the water level will actually go down rather than overflowing the glass.
- Similarly, if you mix half a liter of alcohol and half a liter of water, the total volume of the liquid will be less than one liter.
- There is about 0.4 pound or 200 grams of salt (NaCl) in the average adult human body.
- A pure element takes many forms. For example, diamond and graphite both are forms of pure carbon.

The Department of **Science and Humanities** Organized a
Painting Competition on 19/09/2023

The painting competition, organized by the Department of Science & Humanities, was held on 19/09/2023 at Seminar hall. This event aimed to promote creativity, artistic expression, and bring together artists of all ages and skill levels to showcase their talents. It was a delightful gathering that witnessed participants from various backgrounds pouring their hearts onto the canvas.

The competition had a theme, which was "**National Leaders**." This thematic element encouraged participants to think creatively and explore different aspects of their chosen theme. The competition attracted a diverse group of participants, to seasoned artists with their experience.

The paintings displayed a wide range of artistic styles, techniques, and subject matter. Some participants chose to focus on traditional landscapes and portraits, while others delved into abstract and contemporary art forms.

The judging panel evaluated the paintings based on creativity, technique, adherence to the theme, and overall impact. Winners were selected from each category and were awarded certificates, In addition to the top three winners in each category, special mentions and encouragement awards were also given to acknowledge outstanding efforts

The painting competition was a resounding success, providing a platform for the students to express themselves and share their passion for art. It not only fostered creativity but also encouraged healthy competition. The event brought the community together and showcased the abundance of students' talent.

Prize	Name of the Student	Department / Year
I	Nixson. H	Pharma / I
II	Kishore. V	AI - DS / I
III	Pooja. K	IT / I
III	Dharshini. P	Robotics /I

Pictures Drawn by the First Year Students on 19/09/2023
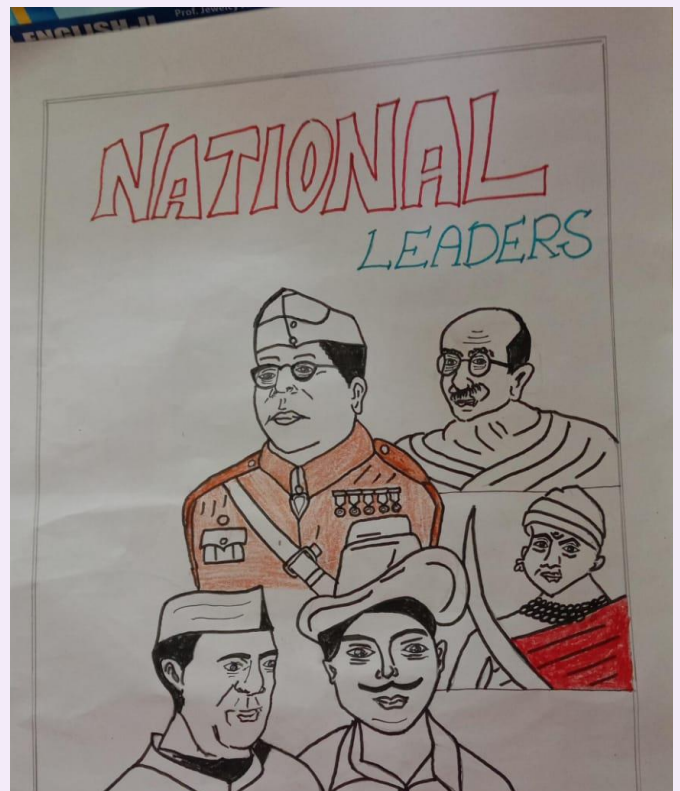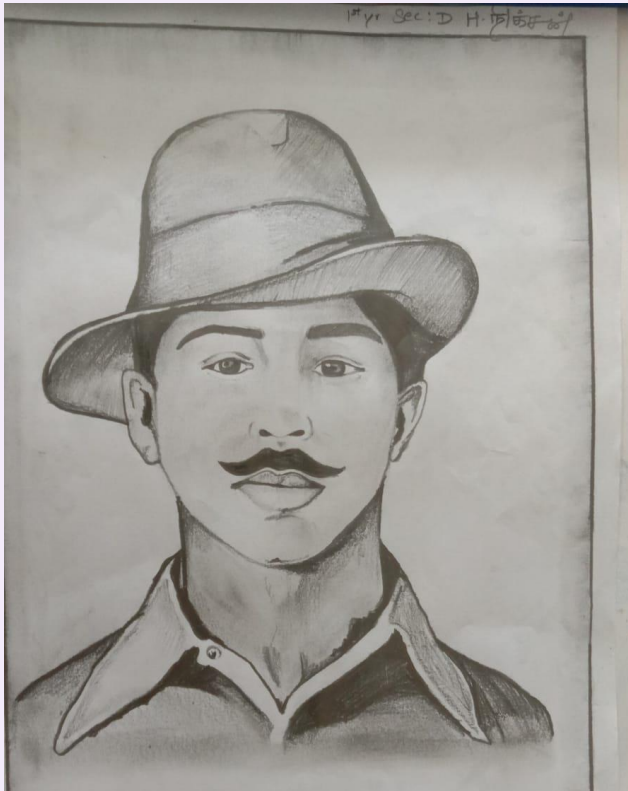
Judge,
Mrs. S. Dhalakashmi,
IT – HOD.

Judge,
Mr. S. Manikandan,
HoD - Civil

Coordinator,
Mr. M.Vishnuwaran
Asst. Prof – S&H

Coordinator,
Mrs. V. Amudha
Asst. Prof – S&H

Coordinator,
Mrs. K. Macharegai
HoD – S&H

The Department of **Science and Humanities** Organized a **Singing Competition** on **19/09/2023**

  Music binds our soul, heart and emotions. Music is the best method of relaxation. It cheers the spirit and lightens the heart. In fact, through singing students learn to express their feelings and ideas. To bring out the singing talent of the student's Singing Competition was organized at our college on 19th September 2023.

  The students were interested in singing Melody song. The melodious songs pulled the heartstrings of the audience. Each student showed their mastery over voice modulation, pitch, rhythm and tone. The students showcased a sense of pride, self-esteem and self-confidence as a result of the competition.

  The 'Parent-Judges', Ms. Vijayalakshmi, AP / Pharmaceutical and Ms. A. Pavithra, AP / BME thoroughly enjoyed the mellifluous songs. They were impressed with the confidence, the tonal quality and the fervour with which they sang songs.

Prize	Name of the Student	Department / Year
I	S. Kavilaya	CSE / I
II	V. Blessy	IT / I
III	M. Abdul Samad	Robotics & Automation / I
III	B. Roshan Kumar	Mechanical / I

Judge,
Ms. M. S. Vijayalakshmi
Asst. Prof - Pharama

Judge,
Mrs. A. Pavithra,
Asst. Prof - BME

Coordinator,
Mrs. R. Nathiya,
Asst. Prof – S&H

Coordinator,
Mrs. G. Yogeswari,
Asst. Prof – S&H

Coordinator,
Mrs. K. Macha regai
HoD – S&H

The Department of **Science and Humanities** Organized a Three Days **Mediation Program on 21 – 23/9/2023**

The Yoga coaching programme was organized by the Department of Science and Humanities of SMIT for First year students from 21-09-2023 (Thursday) to 23-09-2023 (Saturday). This practice and to feel acquainted with different layers of Yoga Art & Science, and Yoga training program served as the foundational stone in a student's journey to advance Yoga to build their self-confidence. The Program was conducted by Mrs. R. Meenakshi heart fullness meditation, Chennai. By the end of the program, the student acquired the skills to improve Relaxation Techniques, Breath Control, Positive Thinking and Meditation.

All the students enjoyed and they comfortable when they practice yoga. The yoga mentor also thought the students to practice daily in the day to day life.

Coordinator,
Dr. P. Surendar Anand
Asst. Prof - S&H

Coordinator,
Mrs. K. Macha regai
HoD – S&H

The **Inauguration Program** of **First year MBA** and **MCA 2023-2025** batch was held on **11/09/2023**

The inauguration program of First year MBA 2023-2025 batch was held on 11th September 2023 in SMIT Auditorium, Principal, Dr. K. Somasundaram in his inaugural address he has heartily appreciated the tremendous task of the management and he wishes the respected chairman for his future endeavour. He said that he could provide a support for any sort of the tasks for the enrichment of students. Dr. V. Anitha   Vice Principal formally welcomes all the dignity present on the dais and the students of various institutions. Who practiced in this inauguration she further mentions the highlight of various PG Departments functioning in this college.

All HoD's of PG Department assured in supporting the students and the management to run the college in the smooth and quiet manner they are emphasized on honor and peace stronger in the society through the educational institution which gets started with good intention. The ceremony with adjourned with the Vote of thanks Dr. S. Chitra Devi, and the event was arranged for the audience at the end of the ceremony.

Coordinator,
Mrs. K. Narmadha,
Asst. Prof - MBA

Organized by,
Dr. E. Pandian Professor &
MCA - HoD

Organized by,
Dr. S. Chitra Devi,
HoD - MBA

Humanoid Intelligence Club was inaugurated by the Department of **Master of Computer Applications (MCA)**, and organized a Seminar on **FIVE T's OF TOASTMASTERS** on **23/09/2023**

Introduction:

       Department of MCA and Humanoid Intelligence Club jointly conducted a special seminar Program for PG students.

       The seminar started with Multimedia presentation by MCA students and dignities settled down at the stage followed by Thamizh Thai Vazhthu.

Welcome Speech:

Dr. E. Pandian, Professor & Head, Department of MCA welcomed all of the special seminars. Our principal sir felicitated the program by abstracting the topic of the seminar interesting and Vice Principal Mam congratulated and motivated the Faculty and the students of the MCA department to arranging the special seminar.

Keynote Speech:

Our chief guest Mr. V.Sriram, Manager, DXC Technologies delivered the keynote speech. He started his enthusiastic conversation with an activity which was so fun and it helps to keep the student's mentality to observe the full seminar.

He narrated Albert Einstein's story and he related the story with the seminar topic "FIVE T's OF TOASTMASTERS".

1. OPPORTUNI T Y   2. ADAPTABILI T Y   3. POSITIVI T Y

4. INTEGRI T Y   5. CREATIVI T Y

Special Address:

Our chief guest Mrs. S. Sathya Agila, Assistant Professor, SSN College of Engineering, addressed the special speech.

To create an impact about the importance of Observing skills, she asked questions from the previous session. Our students answered as they observed the seminar curiously. She added,

- Leadership Quality,
- Innovative Planning,
- Effective Communication,
- Youth Enthusiasm,
- Self-paced Learning and
- Building Confidence.

Book Donation:

A couple of books have been awarded to two chief guests as a token of love by our Principal and Vice Principal.

Our MCA department Head, Dr. E.Pandian sir donated few books to our college library which was very much appreciated by all as a good initiative. Our chief guest Mr. V.Sriram has also promised to donate few books that will be helpful to the students of SMIT.

Vote of Thanks:

Dr. L. Josephine Mary, AP, Department of MCA, thanked The Management, Principal, Vice Principal, Administrative Officer, Chief Guests, Heads of all departments, Faculty Members, Non teaching staffs and students those who are directly and indirectly supported to the function.

The program ends up with the National Anthem.

Coordinator,
Dr. L. Josephine Mary,
Asst. Prof – MCA.

Organized by,
Dr. E. Pandian Professor &
HoD – MCA.

The Department of **Master of Computer Applications (MCA)** Students Participated an **Industrial Visit** to **Network Geek – Vadapalani** on **29/09/2023**

The motto of the IV is

- To understand the importance of networkers in IT industry.
- To know about IT certification like CCNA, AWS, etc.,
- Dr. E. Pandian, Professor and Head, organized the Industrial Visit. 35 students and 2 staff coordinators visited the company.
- Mr. Paulraj, Trainer, NG, trained the students about the categories of Network practically by connecting two computers in virtual mode.

- He continued by advising the students to practice Linux Operating system. Mr. Paulraj, Trainer, NG, trained the students about the categories of network practically by connecting two computers in virtual mode. He continued by advising the students to practice Linux Operating system.
- He explained the IT certification especially CCNA certification by Cisco. Also, due to lack of time, he advised the students to watch his 20 hour video about network concepts and completed his session.
- We returned back to College around 3pm and disbursed.

Accompanied by,
Mr. V. Nagarajan,
Asst. Prof - MCA

Accompanied by,
Mr. K. Kulunthan,
Asst. Prof - MCA

Organized by,
Dr. E. Pandian Professor &
HoD - MCA

University Exam Toppers

Department of Civil Engineering

Register Number	Name of the Student	Year/SEM	Rank	CGPA
212621103303	S. Chandru	II / 4th	I	7.66

Department of Computer Science and Engineering Section A

Register Number	Name of the Student	Year/SEM	Rank	CGPA
212621104022	V. Harini	II / 4th	I	8.69
212621104002	G. Abhi Adhesh	II / 4th	II	8.5

Department of Computer Science and Engineering Section B

Register Number	Name of the Student	Year/SEM	Rank	CGPA
212621104052	T. Sandhya	II / 4th	I	9.17
212621104051	B. J. Samu	II / 4th	II	8.93

Department of Artificial Intelligence and Data Science Engineering

Register Number	Name of the Student	Year/SEM	Rank	CGPA
212621243030	L. Sowmiya Lashmee	II / 4th	I	8.55
212621243032	V. Sulochana	II / 4th	II	8.00

Department of Electronics and Communication Engineering

Register Number	Name of the Student	Year/SEM	Rank	CGPA
212621106001	P. Deepak Sriram	II / 4th	I	8.0
212621106014	R. Udhaya Prakash	II / 4th	II	7.9

Department of Mechatronics Engineering

Register Number	Name of the Student	Year/SEM	Rank	CGPA
212621115301	S. Alagumurugan	II / 4th	I	7.7

Department of Robotics and Automation Engineering

Register Number	Name of the Student	Year/SEM	Rank	CGPA
212621125001	V. K. Aarthi Pooja	II / 4th	I	8.0

Department of Information Technology

Register Number	Name of the Student	Year/SEM	Rank	CGPA
212621205019	K. Srinath	II / 4th	I	9.1
212621205027	S. Vishwa	II / 4th	II	8.8

Department of Bio Medical Engineering

Register Number	Name of the Student	Year/SEM	Rank	CGPA
212621121002	L. Dhanuja	II / 4th	I	8.83
212621121006	S. Lokeshwaran	II / 4th	II	8.7

Department of Pharmaceutical Technology

Register Number	Name of the Student	Year/SEM	Rank	GPA
212621237003	M. Naveena	II / 4th	I	8.9
212621237004	D. Selvizhi	II / 4th	II	8.7