

ARTIFICIAL INTELLIGENCE

AND

DATA SCIENCE

NEWSLETTER

THE ARTIFICIAL INTELLIGENCE

April 2023, Volume 2, Issue 4

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FACULTY INCHARGE: Mr. Muthamil Selvan S

DEPARTMENT HoD: Dr. Swagata Sarkar



Vision / Mission of College

Vision

To emerge as a “Centre for excellence” offering Technical Education and Research Opportunities of very high standards to students, develop the total personality of the individual, and instil high levels of discipline and strive to set global standards, making our students technologically superior and ethically strong, who in turn shall contribute to the advancement of society and humankind.

Mission

We dedicate and commit ourselves to achieve, sustain and foster unmatched excellence in Technical Education. To this end, we will pursue continuous development of infrastructure and enhance state-of-the art equipment to provide our students a technologically up-to date and intellectually inspiring environment of learning, research, creativity, innovation and professional activity and inculcate in them ethical and moral values.

Quality Policy

We at Sri Sairam Engineering College are committed to build a better nation through Quality Education with team spirit. Our students are enabled to excel in all values of Life and become Good Citizens. We continually improve the System, Infrastructure and Services to satisfy the Students, Parents, Industry and Society.



VISION / MISSION OF DEPARTMENT

Vision

To emerge as a “Centre of Excellence in the field of Artificial Intelligence and Data Science”, The Department is committed to inculcate discipline, offering best Technical Education and Research Opportunities and ethically strong to meet the global challenges, who in turn shall contribute to the advancement and welfare of the society.

Mission

- To produce students with a sound understanding of the fundamentals of the theory and practise of Artificial Intelligence, Machine Learning and Data Science.
- To enable students to become leaders in the Industry and Academia Nationally as well as Internationally.
- To meet the pressing demands of the nation in the areas of Artificial Intelligence and Data Science.



EPITOME OF OUR MISSION

The Department of Artificial Intelligence and Data Science emerged in the year 2020 in Sai Ram Institutions with the intake of exiguous students. It has now evolved quintessentially with an admirable admission of about 60 aspiring students in 2020, 120 in 2021, 180 in 2022 and gradually increasing each year, joining hands with a dedicated team of erudite faculty.



DEPARTMENT EVENTS

GUEST LECTURE ON HOW TO CONVERT AN IDEA INTO A COMMERCIAL PRODUCT:

On the 20th of April 2023, a seminar on "How to convert an idea into a commercial product" was conducted for the students of the second year of Artificial Intelligence and Data Science. The seminar aimed to provide the students with a comprehensive understanding of the process of transforming an idea into a marketable product.

The seminar was conducted by Dr. S.V.Mani, a renowned entrepreneur and business consultant. Dr. Mani began the seminar by highlighting the importance of identifying a unique and viable idea that can solve a real-world problem. He emphasised the need for thorough market research and understanding the target audience before developing the product.

Dr. Mani then went on to discuss the various stages involved in converting an idea into a commercial product, including product design, development, testing, and marketing. He provided practical examples and case studies of successful startups that have followed this process to create innovative and profitable products.

The seminar also covered the importance of creating a strong brand identity, building a solid team, and securing funding to support the product's development and growth. Dr. Mani encouraged the students to think outside the box and be innovative in their approach, stressing the need for continuous learning and adaptation to stay ahead in the competitive market. The seminar concluded with a Q&A session, where the students had the opportunity to ask questions and clarify their

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An Autonomous Institution | Affiliated to Anna University & Approved by AICTE, New Delhi
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DEPARTMENT OF
ARTIFICIAL INTELLIGENCE & DATA SCIENCE

IN association with
ARTIFICIAL INTELLIGENCE & MACHINE LEARNING CLUB
Organizes
GUEST LECTURE ON

HOW TO CONVERT AN IDEA INTO A COMMERCIAL PRODUCT

20th April, 2023 - 10.00am-12.30pm
at Hands on training center

RESOURCE PERSON
DR. S.V. MANI
Vice President (Retd.) - TCS.
Proprietor - PI Water BCS Technology

Mrs. Gomathy G
Event Co-Ordinator

Dr. Swagata Sarkar
HOD/AI-DS

Dr. K. Porkumaran
Principal

Dr. Sai Prakash LeoMuthu
Chairman & CEO
Sairam Institutions

Sairam **RAISE** **FOMS** **ARIIA** **nirf 157 RANK** **TOP 25 RANKING INSTITUTION** **SUSTAINABLE DEVELOPMENT GOALS**



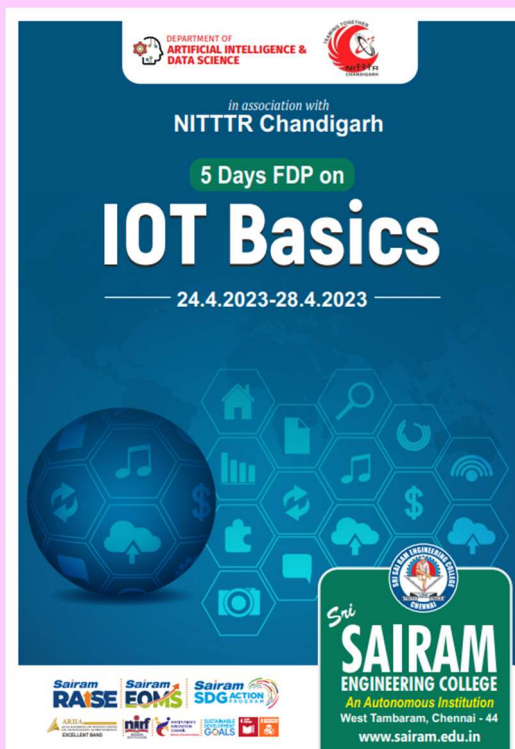
doubts. Dr. Mani provided valuable insights and advice on the challenges and opportunities in the startup world, motivating the students to pursue their entrepreneurial dreams.

The seminar on "How to convert an idea into a commercial product" was an informative and insightful event that provided students with practical knowledge and guidance on the startup process. Dr. S.V. Mani's expertise and experience in the

field of entrepreneurship were instrumental in delivering an engaging and meaningful session. The seminar highlighted the importance of creativity, market research, and strategic planning in developing a successful product and building a sustainable business. Such events are essential for students to gain exposure to the real-world challenges and opportunities of the startup ecosystem.

IOT BASICS:

The Department of Artificial Intelligence and Data Science at Sri Sairam Engineering College recently organized a five-day FDP on IoT in association with NITTTR Chandigarh. The event took place from 24th April to 28th April 2023, and it was aimed at teaching the basics of IoT to the participants.



The Internet of things (IoT) is a revolutionary technology that describes physical objects with sensors, processing ability, software and other technologies that connect and exchange data with other devices and systems over the internet or other communications networks. IoT has been considered a misnomer because devices do not need to be connected to



the public internet, they only need to be connected to a network and be individually addressable.

The program was designed to help participants understand the convergence of multiple technologies, including ubiquitous computing, commodity sensors, increasingly powerful embedded systems, as well as machine learning. Traditional fields of embedded systems, wireless sensor networks, control systems, automation (including home and building automation), independently and collectively enable the Internet of things.

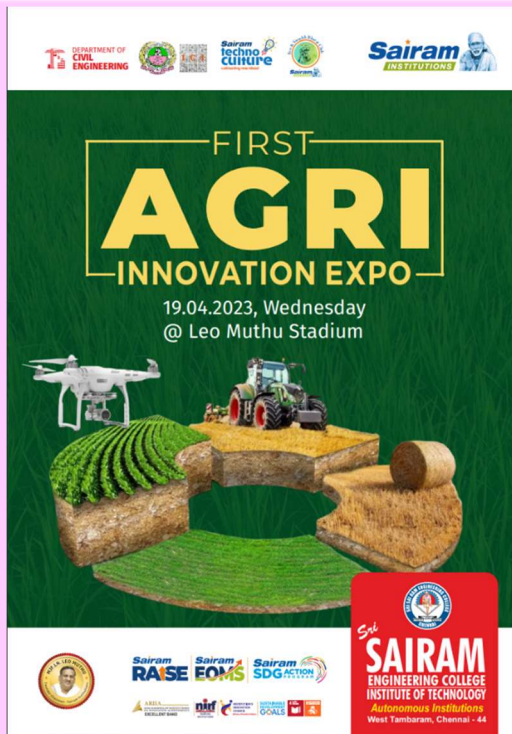
The course was a paid course, and the fee was charged to cover the expenses associated with the program. The FDP had a limited number of seats available, and the registration was done on a first-come-first-served basis. The program was highly appreciated by the participants as it was aimed at providing a comprehensive understanding of IoT, which is one of the most sought-after technologies in the industry.

The FDP was conducted under the guidance of Dr. Swagata Sarkar, the head of the department of Artificial Intelligence and Data Science, Sri Sairam Engineering College. She motivated the participants to take an active interest in IoT and how it can be applied to solve real-world problems. She highlighted the importance of IoT and how it can be used in various domains, including healthcare systems and home automation.

Overall, the FDP was a huge success, and it provided the participants with a comprehensive understanding of IoT. The participants were highly appreciative of the program and thanked the organizers for providing them with an opportunity to learn about IoT. We hope that such programs continue to be organized in the future to help participants understand new technologies and their applications.

FIRST AGRI INNOVATION EXPO:

The Agri Expo 2023 was held on 19/04/2023 at Sri SaiRam Engineering College in Chennai, Tamil Nadu. The event aimed to showcase the latest trends and advancements in the field of agriculture. It provided an excellent platform for students to exchange their ideas and explore new opportunities. This event was conducted by the Department⁴ of Civil Engineering in association with Sairam Techno Culture.



The event featured a competition, where students from colleges presented their innovative ideas for improving the agricultural sector. The competition was evaluated based on the feasibility, sustainability, and potential impact of the ideas. The competition was intense, with several teams presenting innovative solutions.

The competition concluded with the announcement of the winners. The third prize was awarded to Sanath Kumar S S and Karnati Devendar as they presented a very feasible idea for their problem statement.

The Agri Expo 2023 was a grand

success, with enthusiastic participation from students. The exhibition and competition provided an excellent platform for showcasing the latest trends and innovations in the field of agriculture. The event encouraged young minds to come up with innovative solutions for the challenges faced by farmers. Such events play a vital role in promoting the growth of the agricultural sector and creating a sustainable future.



HANDS ON TRAINING ON NEURAL NETWORK USING MATLAB:

On April 25th, a training session on neural networks using MATLAB was held at Bharathiyar Hall in Tagore Engineering College. The session was conducted by Dr Swagata Sarkar, the professor and Head of the Department (HOD) of the Artificial Intelligence and Data Science, Sri



TAGORE ENGINEERING COLLEGE

Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai
Rathinamangalam, Vandalur - Kelambakkam Road, Chennai, Tamilnadu 600 127



Hands On Training On
Neural Network
Using Matlab



>>>>>>

Dr.Swagata Sarkar

Professor & HOD

Department of Artificial
Intelligence And Data Science
Sri Sairam Engineering College

<<<<<<



Tuesday, 25 April 2023

8:30am to 9:30am

Bharathiyyar Hall

Co-ordinator
A.Suganya
Assistant professor

Convenor
Dr.R.Beulah Jayakumari
HOD - IT

Patron
Dr.R.Ramesh
Principal

Chief Patron
Dr.M.Mala
Chairperson

Sairam Engineering College, with the aim of enhancing the knowledge and understanding of neural networks among faculty members and students.

The training session began at 8:30am with an introduction to the basics of neural networks and their applications. The HOD provided a brief overview of the different types of neural networks and their uses in machine learning and data analysis. The session then moved on to a more hands-on approach, where the HOD demonstrated how to use

MATLAB for developing neural networks.

The training session was highly interactive, with the HOD providing step-by-step instructions on how to use MATLAB for creating and training neural networks.

The participants were encouraged to follow along and ask questions, which led to a lively and engaging learning experience.

The HOD demonstrated various techniques for developing neural networks using MATLAB, including supervised and unsupervised learning methods. The participants

were able to see first-hand how to build, train, and test a neural network using MATLAB, which helped them gain a deeper understanding of the process.





The training session received positive feedback from the participants, who appreciated the opportunity to learn about neural networks using MATLAB. They expressed their gratitude to the HOD for conducting such a valuable training session and providing them with practical skills that they can apply in their future work.

Overall, the training session on neural networks using MATLAB at Tagore Engineering College was a great success. It provided the participants with a valuable learning experience and equipped them with practical skills that they can apply in their future work. The HOD's initiative to conduct such a training session reflects the department's commitment to providing the students and faculty members with opportunities to enhance their skills and knowledge in the field of neural networks.

SKILLING PROGRAM ON INDUSTRIAL IOT FOR THIRD YEAR EIE STUDENTS:

Sairam
INSTITUTIONS

DEPARTMENT OF
ELECTRONICS AND
INSTRUMENTATION
ENGINEERING

in association with
AICTE - IDEA LAB

Organizes
**SKILLING PROGRAM ON
INDUSTRIAL IOT
FOR THIRD YEAR EIE STUDENTS**

26.04.2023 to 28.04.2023
@ EIE IoT Lab

Resource Person
Dr. T. SATHIES KUMAR
Associate Professor/EIE

Organiser : Dr. M. Nalini

Dr. M. Mani
Coordinator

Dr. Swagata Sarkar
Co-Coordinator

Dr. K. Renganathan
HOD/EIE

Dr. K. Perikumar
Principal

Dr. Sai Prakash LeoMuthu
Chairman & CEO
Sairam Institutions

RAISE FOMS SDG ARDA

On 26 to 28th of April, the Department of Electronics and Instrumentation (E&I) at Sri Sairam Engineering College, in association with AICTE Idea Lab, organized a training program on Industrial Internet of Things (IIoT) for third-year students. The training program was coordinated by Dr. Swagata Sarkar, HOD from the Department of Artificial Intelligence and Data Science. Dr. T. Sathies Kumar, Associate Professor, E&I, is the Resource person for the program.

The training program aimed to provide an overview of the IIoT and its various applications in industries. The training session started with an introduction to IIoT and its importance in modern-day industries. The session then proceeded to cover the various components of IIoT, such as sensors, gateways, and cloud infrastructure.



The session was highly interactive, with the participants being encouraged to ask questions and share their experiences. The trainers provided real-world examples to help the participants understand the various applications of IIoT in industries. The session also covered the challenges and opportunities associated with IIoT implementation in industries.



The trainers demonstrated the implementation of IIoT using Raspberry Pi and Arduino microcontrollers. The participants were given hands-on experience in building and configuring IIoT devices, which helped them gain practical skills in IIoT implementation.

The training program received positive feedback from the participants, who appreciated the opportunity to learn about IIoT and its applications. The participants expressed their gratitude to the E&I department, AICTE Idea Lab, and Dr. Swagata Sarkar for organizing such a valuable training program.

Overall, the training program on IIoT organized by the E&I department in association with AICTE Idea Lab was a great success. It provided the participants with valuable knowledge and practical skills in IIoT implementation, which will help them in their future careers. The department's initiative to organize such a training program reflects its commitment to providing its students with opportunities to enhance their skills and knowledge in emerging technologies.

ATL COMMUNITY DAY CELEBRATION ON JAI GOPAL GARODIA HINDU VIDYALAYA:

The ATL community celebration event was conducted by JaiGopal Garodia Hindu Vidyalyaya (JGHV) on the 15th of April 2023 in West Tambaram. The event aimed to showcase the achievements of the students and their efforts in the ATL (Atal Tinkering Lab) community.



Dr. M. Balasaraswathi, a prominent educationist and former Principal of JGHV, delivered the opening address from 2:30 to 2:45 PM. She emphasised the importance of practical learning and appreciated the efforts of the students in the ATL community.



Dr. Swagata Sarkar, a well-known researcher in the field of Science and Technology, delivered a keynote address from 2:45 to 4:30 PM. She spoke about the significance of innovation and encouraged the students to pursue their interests in STEM (Science, Technology, Engineering, and Mathematics) fields.

The JGHV students presented their projects from 4:30 to 4:40 PM. They showcased their innovations in various domains such as robotics, automation, and digital fabrication. The students

demonstrated their applications and devices, highlighting their functionalities and benefits.

The ATL community celebration event was a grand success, with the active participation of students, parents, and educators. The event provided a platform for the students to showcase their skills and knowledge in STEM fields. The contributions of Dr. M. Balasaraswathi, Dr. Swagata Sarkar, and the JGHV students made the event more informative and engaging. Overall, the event was a testament to the school's commitment to promoting innovation and practical learning.

AR-VR TRAINING PONDICHERRY:

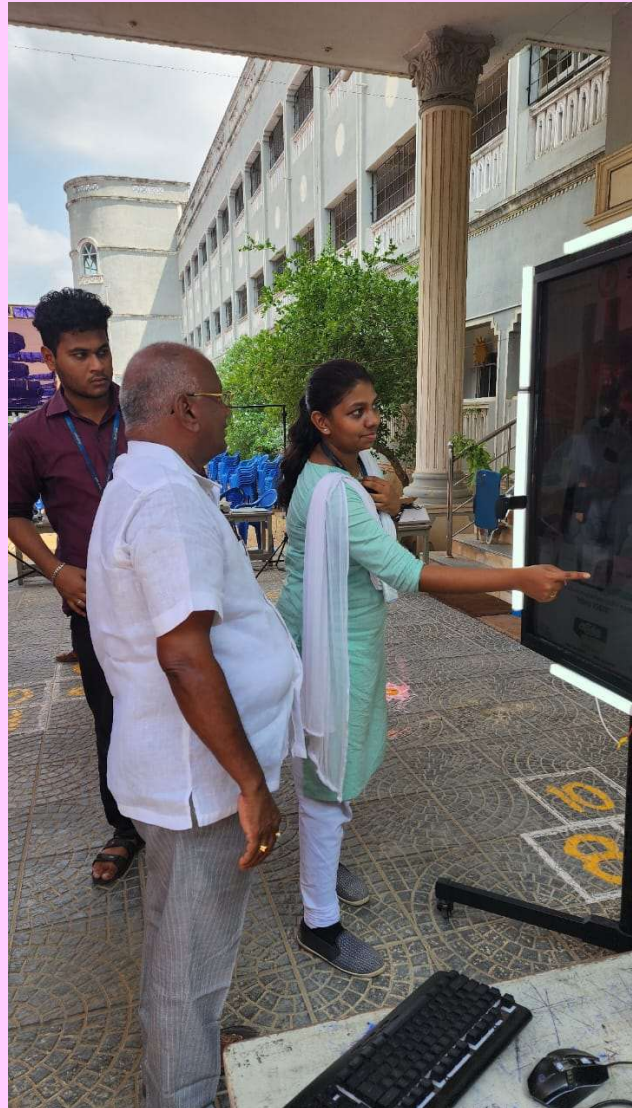
On 23rd April 2023, an event was initiated by LMES and presented by Pick my Career. This event was held in Sairam Vidhyalaya, Ullavaikal, Pondicherry. The events aimed to provide students from various schools with a platform to explore different career options and gain practical



knowledge and skills. Around 6 students from 2nd year, AI&DS attended this event to demonstrate the AR/VR technology to the school students.

The event began with an opening speech by the organisers, highlighting the importance of career planning and skill development in today's competitive job market.

The session featured Mr. R. Ashok Kumar and Mr. R. Ashwin, two experts in the education field and they taught about life lessons. The session covered the basics of app development, including coding languages, etc. The students also had hands-on experience designing and developing their own basic applications. The students also attended a session on Course structures and best college



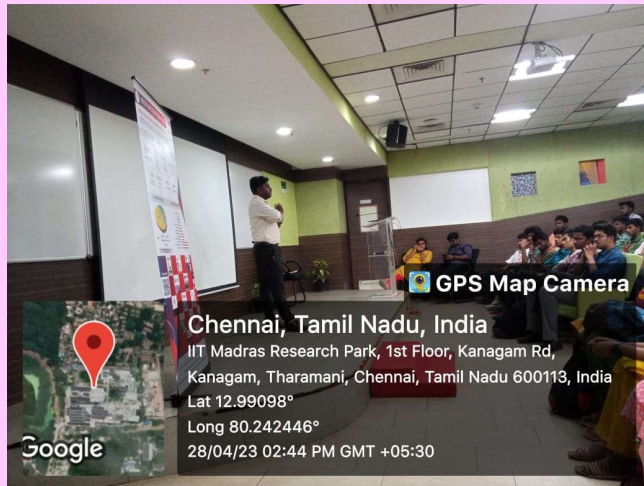
thoughts on it by Mr. S. Premanand. The session covered the principles and techniques of personal development. The final speaker was Mr. Raj Mohan, his session covered various aspects of digital marketing, including search engine optimization, social media marketing, and email marketing. The students gained practical knowledge and insights into the field, including the importance of data analytics and consumer behaviour analysis.

The event concluded with a closing ceremony, where the organisers presented certificates to the participants and thanked the resource persons for The Pick my Career events organised by LMES provided an excellent platform for students to explore different career options and gain practical knowledge and skills. AR/VR development provided valuable insights and hands-on experience for the students. Such events are essential for students to gain exposure to the latest trends and practices in various career fields and develop the necessary skills to succeed in the job market. The event's success is a testament to the



LMES organisation's commitment to promoting student development and providing quality learning opportunities.

INDUSTRIAL VISIT TO IITM RESEARCH PARK:



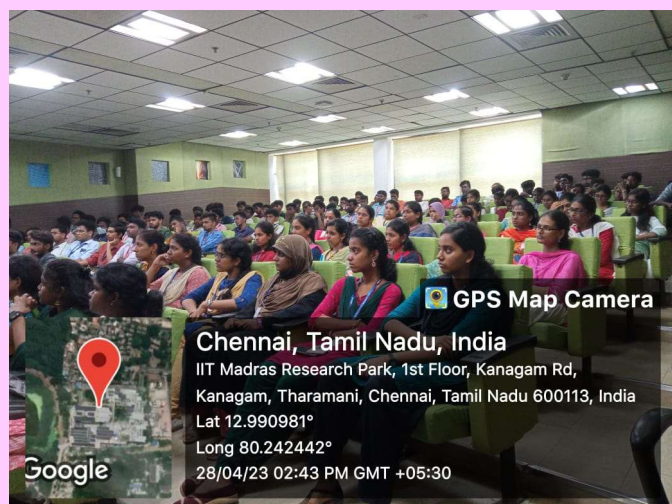
On 28 April, a group of students from Sri Sairam Engineering College went on an industrial visit to the Indian Institute of Technology (IIT) Madras. The visit aimed to provide the students with an opportunity to learn about the latest research and technologies being developed at IIT Madras and gain

practical knowledge in their respective fields.

During the visit, the students were given a tour of the various research facilities at IIT Madras, including the Center for Computational Brain Research and the Robotics

Laboratory. They were able to witness cutting-edge research being conducted in these labs and gained insights into the latest developments in their fields. The students also had the opportunity to attend talks by various experts in their respective fields. The talks covered a wide range of topics, including artificial intelligence, machine learning, and robotics. The experts shared their experiences and insights, providing the students with valuable knowledge and information.

One of the experts spoke about the latest developments in robotics and shared their experiences in developing humanoid robots. The expert discussed the various challenges associated with developing robots that can





mimic human movements and emotions and the potential applications of such robots in industries.

Another expert spoke about the applications of artificial intelligence and machine learning in industries, highlighting the role of these technologies in driving innovation and improving efficiency. The expert discussed the various tools and techniques used in AI and machine learning and provided examples of their applications in real-world scenarios.



The visit to IIT Madras and talks by various experts were highly informative and enriching.

The students were able to gain practical knowledge in their respective fields and learn about the latest developments in research and technology. The visit was a great opportunity for the students to interact with

experts and gain insights into the latest trends and developments in their fields.

Overall, the industrial visit to IIT Madras and talks by various experts were a great success. They provided the students with valuable knowledge and insights and helped them to gain a better understanding of the latest developments in their fields. The visit was a testament to the college's commitment to providing its students with opportunities to enhance their knowledge and skills and stay abreast of the latest trends and developments in their fields



STUDENT ACHIEVEMENTS

TECHNO RAISE GRANT:

We are thrilled to announce that our drone project proposal has been accepted by the Entrepreneurship Development and Innovation Institute under the Innovation Voucher Programme. We, Techno Raise Pvt Ltd, are honored to receive this opportunity to work on our project titled "Disaster Drone Management" under the A Voucher type with a maximum project duration of 12 months.


We would like to express our sincere gratitude to the Entrepreneurship Development and Innovation Institute for choosing our proposal and providing us with a fund of 5 lakhs. With this funding, we will be able to bring our ideas to life and develop innovative solutions to tackle disasters using drones.

We are also delighted to have Sri Sairam Incubation Cell as our knowledge partner for this project. Their expertise and support will undoubtedly play a significant role in the success of our project.

We would like to extend our heartfelt thanks to Dr. Swagata Sarkar, the HOD of the Artificial Intelligence and Data Science department, for her invaluable guidance and support throughout the proposal preparation process. Her expertise and experience have been instrumental in shaping our proposal and securing this opportunity.

We would also like to express our appreciation to the students who contributed to this project, namely Thiwarar, Venkat, and Sathish. Their

ENTREPRENEURSHIP DEVELOPMENT AND INNOVATION INSTITUTE
(An autonomous society of the Government of Tamil Nadu)
ParthasarathyKoil Street, SIDCO Industrial Estate,
Ekkaduthangal, Guindy, Chennai 600032, Tamil Nadu
Tel : +91-44-2225-2081/82/83/84 Web : www.edii.in



Roc.No.II-01/44/2022/EDII/2022 Date: 20.03.2023

Sir,

Sub: EDII - Innovation Voucher Programme (IVP) - Proposal submitted under IVP - Sanctioned Order Issued - Reg.

Ref: 1. IVP Proposal sent by M/S Techno Raise Pvt Ltd.
2. Minutes of the Screening Committee meeting held on 28.02.2023.

As per the above references, this is to inform that your proposal has been approved by the Screening Committee under "Innovation Voucher Programme". In this regard, the details of the recommendations and terms and conditions are as follows:

1. Name of the Company : Techno Raise Pvt Ltd.
2. Project Title : Disaster Management Drone - VANGUARD
3. Voucher Type : Voucher - A
4. Maximum Project : 12 Months Duration
5. Knowledge Partner : Sri Sairam Techno Incubator Foundation
6. Total Project Cost : Rs.5,00,000/-

Break up of Project Cost (In Rs.) :				
EDII Contribution			Company's Contribution	Total
1 st Installment 50%	2 nd Installment 40%	3 rd Installment 10%		
1,00,000	80,000	20,000	3,00,000	5,00,000

Terms and Conditions of the grant :

- 1st Installment: 50 percent of the eligible grant will be released on signing of the Tripartite agreement.
- 2nd Installment: 40 percent will be released on submission of the Progress report, Utilization Certificate, Photos & Videos, etc. and its acceptance by the EDII within the time frame stipulated in the agreement.
- 3rd Installment: (Remaining 10 percent) will be released on completion of the project and presentation of the final report being made before the Screening committee and the completion report found acceptable.
- Contribution of the company has to be paid in full to the knowledge partner before the release of 2nd Installment.
- Knowledge partner should release the fund to the company without any delay based on the achievement of milestones as envisaged in the project by the company.



- VI. The company should periodically furnish progress report and utilization certificate to EDII for releasing of 2nd and 3rd installment.
- VII. The company with attestation of the Knowledge Partner must submit monthly progress reports of the project to EDII regularly.
- VIII. Any deviation of the project has to be reported promptly to EDII.
- IX. The sanction project should be completed within the time stipulated in the agreement. For factors beyond the control of the Company given the assignment, suitable extension in time may, however, be granted at the request of the institution.
- X. The EDII shall not pay any extra amount for any escalation in the cost of the assignment beyond the time period stipulated in the agreement.
- XI. The total grant for the study as agreed with the organization will include service tax and other tax, if any, and the liability of payment of the tax will be of the Institution conducting the study.
- XII. TWO hard copies of the final report, FIVE hard copies of the executive summary and soft copy containing the final report shall be submitted before releasing the final installment of payment.
- XIII. During the period of the implementation of the project, EDII may modify the TOR and other terms and conditions of the project, if necessary, in order to strengthen/deepen its scope/coverage. As far as possible, such modifications will not be made more than once during the period of study and with the due concurrence of the Company concerned.
- XIV. In case of change of contact person during the period of study, the new contact person may be nominated by the Company with the prior approval of the EDII.
- XV. Any changes in the proposed work plan should be intimated to EDII and get prior approval from the Screening Committee.
- XVI. If the performance of the Company during the period of the study is not found to be satisfactory, the agreement will be terminated.
- XVII. The Knowledge partner should have empanelled with EDII.

You are requested to furnish us the following documents immediately:

- Tripartite Agreement (Model Enclosed)
- Advance Stamp receipt from the Knowledge Partner Institution for the 1st Installment.
- Bank Account details of the Knowledge Partner Institution to which the amount is to be released in Letterhead with signature of Knowledge Partner.
- Detailed milestones with signature of company and Knowledge Partner.
- Detailed Budget split-up with signature of company and Knowledge Partner.
- Consent letter from Knowledge Partner and service cost charged by the Knowledge Partner for various services
- UAM Registration/Startup India DPIIT Registration Certificate

Sd/-
Director
//By order//
Additional Director (FAC)

To,
1. Techno Raise Pvt Ltd.
2. Sri Sairam Techno Incubator Foundation

contributions have been incredibly valuable, and we couldn't have come this far without their hard work and dedication.

Our project aims to address the challenges faced during disasters and emergencies using drone technology. The Disaster Drone Management project will involve the development of a drone system that can detect, assess, and respond to disasters, including natural calamities and other emergencies. The drone will be equipped with advanced features such as real-time mapping, thermal imaging, and

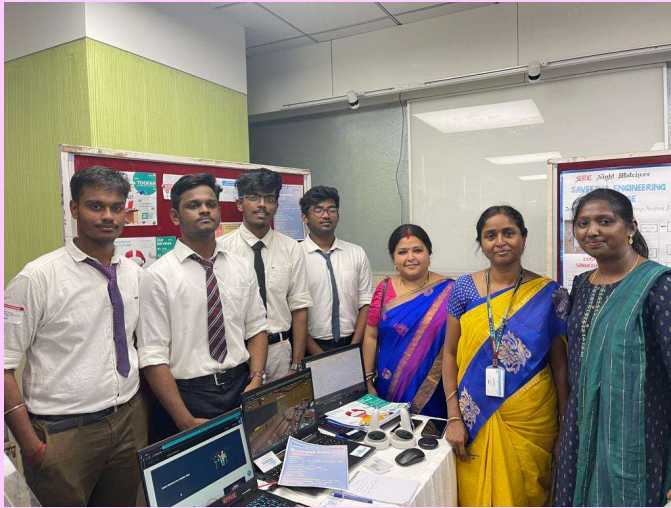
communication capabilities to assist emergency responders and disaster management teams.

Our team is excited to embark on this journey and turn our vision into reality. We are confident that this project will bring about a positive impact and contribute to society's well-being.

We will keep you updated on our progress throughout the project duration and look forward to sharing our results with you.

STUDENTS AS AR-VR TRAINER:

On the 19th of April 2023, PALS, an educational organisation dedicated to enhancing students' knowledge and skills in emerging technologies, conducted an event where students from the third year of Artificial Intelligence and Data Science as Hemanth, Abhinav and Adarsh were acted as AR/VR trainers. The event aimed to allow students to gain



practical experience in training and teaching others in these innovative technologies.

The event was held at the PALS' premises, where participants were divided into groups of three, with each group consisting of one trainer and two trainees. The trainers were students from the third year of Artificial Intelligence

and Data Science, and the trainees were individuals interested in learning more about AR/VR.

The trainers were responsible for designing and delivering the training sessions to their trainees, focusing on the fundamentals of AR/VR technology and its applications. The trainers used various tools and software to create interactive learning experiences, including immersive videos, games, and simulations.

Throughout the training sessions, the trainers encouraged active participation and discussion from the trainees, ensuring that they fully understood the concepts and could apply them in practical scenarios. The trainers also provided individual support to trainees who required extra help or had specific questions.

The event concluded with a debriefing session, where both trainers and trainees provided feedback on their experiences. The trainers praised the opportunity to develop their teaching skills and share their knowledge of AR/VR technology. Trainees also expressed their appreciation for the interactive and engaging training sessions, which they felt were an excellent introduction to the subject.

Overall, the Student as AR/VR Trainer event conducted by PALS was a resounding success, providing students with valuable experience in training and teaching others in emerging technologies. The event also highlighted the potential of AR/VR technology as a tool for immersive learning and engagement. Such events are an excellent platform for students to apply their theoretical knowledge in practical scenarios and develop their skills in emerging technologies.



MIT WORKSHOP AND PROJECT PRESENTATION:

Recently, a team of students from the 3rd year, Department of Artificial Intelligence and Data Science won a project presentation competition. The competition was held on 23, April at Madras Institute of Technology (MIT) and featured numerous presentations from different departments and colleges.



The winning project was presented by a team of 4 members from department of artificial intelligence and data science, namely, Adarsh V, Nivetha, Shrinithi G R, Sudharsan S C. The Competition focused on theme of presenting new ideas of projects. The team used various new and innovative methodologies which helped them achieve their goals and stand out among the other presentations.

The judges were impressed with the team's project and presentation skills, as well as their ability to answer questions and explain their project in detail. The team's hard work, dedication, and creativity paid off, as they were announced as the winners of the competition.

The team members were excited about their win and expressed their gratitude to their faculty mentors and the institute for the support and resources provided to them throughout the project. They also credited their teamwork, effective communication, and time management skills for their success.





Overall, the project presentation competition at MIT showcased the impressive talent and hard work of the students at the department. It provided an excellent opportunity for students to showcase their projects and network with other students and faculty members.

INTEL INTERNSHIP:

Sri Sairam Engineering College recently hosted the Intel Internship Programmer Selection Test on April 17, 2023. The screening test was conducted in the F Block 5th Floor Drawing Hall, starting from 3 PM and concluding at 4 PM. The test was a highly anticipated event for the students of the college, with participants from various departments, including Artificial Intelligence.

The screening test was designed to evaluate the technical skills and knowledge of the students, with the aim of selecting the most promising candidates for the Intel Internship Programme. Among the participants, a few students from the Artificial Intelligence Department and a few others from other departments were selected to appear for the screening test.

The competition was intense, and the selection process was rigorous. However, a few students, including Thiwakar, Soumil, Mariam, and a few others, managed to impress the judges with their technical prowess and problem-solving skills. As a result, they were selected for the Intel Internship Programme, a significant achievement for these students.

The Intel Internship Programme is a highly coveted opportunity that provides students with hands-on experience and exposure to the latest technological advancements. This programme provides a platform for students to showcase their skills, network with professionals, and gain valuable experience that can help them in their future careers.

The students who were selected for the programme can now look forward to an exciting journey of learning and growth, thanks to their hard work and dedication. Their achievement is a testament to their talent and the quality of education and training they have received at Sri Sairam Engineering College.



Overall, the Intel Internship Programmer Selection Test was a resounding success, with students demonstrating their technical expertise and earning a chance to participate in the Intel Internship Programme. It is events like these that help to nurture talent and encourage students to explore their potential to the fullest. Sri Sairam Engineering College is committed to providing such opportunities to its students and preparing them for a successful future.

INNOVATION CHALLENGE 2023 (IEEE YESIST12):

The Innovation Challenge 2023 was held on 31/03/2023 at Sri SaiRam Engineering College in Chennai, Tamil Nadu. The event aimed to create awareness and solutions for sustainable agriculture and SDG goals. The theme of the event was 'Unsustainable Actions, Sustainable Agriculture and SDG Goals'.



The event started with a keynote address by the Chief Guest which was then followed by the Innovation Challenge, where the teams of students presented their innovative ideas based on SDG Goals. The ideas presented were evaluated based on their feasibility, sustainability, and potential impact on the environment and society.

Around 75 teams from various colleges have showcased their innovation under two tracks (i.e.) Innovation Challenge and Makerfair Tracks and 10 jury members from industry and academia evaluated the projects.



Later, the prize distribution was conducted. The following students, Thiwakar, Venkatraman, Sathish and Prabhakaran of 2nd year AI&DS won the event for their project titled 'Home Automation using IoT Devices'. For the event Makerfair, the winners were from 3rd year AI&DS. The team members, Hemanth M, Shrinithi G R, Sudharsan S C and Surya were awarded with a cash prize of Rs. 2000 for their project titled 'Smart Education'. For the Idea Presentation, the runners were from 3rd year AI&DS. The team members, Sanjay Venkat S, Karanam Poorna Siri, Bavanika M, Shreemadhi were awarded with a cash prize of Rs. 1000. Later, 10 teams from both the tracks have been selected to exhibit their ideas at global YESIST 12 finals which will be held at Egypt in September 2023.

PICK MY CAREER EVENT:



From 14th to 16th April 2023, the LMES organisation organised a series of events titled "Pick my Career" across three different locations in Dindigul, Tirunelveli, and Madurai. The events aimed to provide students from the 2nd and 3rd year of Artificial Intelligence and Data

Science with a platform to explore different career options and gain practical knowledge and skills.

The three-day event was split into multiple sessions, each focusing on a specific career field. The event began with an opening speech by the organisers, highlighting the importance of career planning and skill development in today's competitive job market.



On the first day, the students attended a session on Raj Mohan. The session covered various aspects of digital marketing, including search engine optimization, social media marketing, and email marketing. The students gained practical knowledge and insights into the field, including the importance of data analytics and consumer behaviour analysis.



The second day featured a session they taught about life lessons and they are Ashok and Ashwin, two experts in the education field. The session covered the basics of app development, including coding languages, etc. The students also had hands-on experience designing and developing their own basic applications.

On the third day, the students attended a session on Course structures and best college thoughts on it by Premanand. The session covered the principles and techniques of personal development.

The event concluded with a closing ceremony, where the organisers presented certificates to the participants and thanked the resource persons for the "Pick my Career" events organised by LMES provided an excellent platform for students to explore different career options and gain practical knowledge and skills. AR/VR development provided valuable insights and hands-on experience for the students. Such events are essential for students to gain exposure to the latest trends and practices in various career fields and develop the necessary skills to succeed in the job market. The event's success is a testament to the LMES organisation's commitment to promoting student development and providing quality learning opportunities.

PAPER PRESENTATION AT PERI COLLEGE:

On April 19, 2023, the Peri College International Conference on Artificial Intelligence and Data Science was held at the Peri College campus. The event included several activities, including paper presentations and students from various universities participated in the event.

Among them, the participants were Roshia Parveen, Mathumitha, Kaniska, Sai prasanana, Vasanth S, Aravind B, Arun Aravindh from the



Artificial Intelligence and Data Science department at Sri Sairam Engineering College. They presented their research on "Innovations in Machine Learning Techniques for Predictive Analysis" and were one of the standout performances in the event.

Their presentation was well-received by the audience and

impressed the judges. The students demonstrated their proficiency in the subject matter and their ability to communicate their research effectively. The jury was especially impressed by their innovative use of deep learning algorithms to improve the accuracy of predictive analysis. As a result, this team was recognized and appreciated by the attendees and the conference organisers.

The Peri College International Conference on Artificial Intelligence and Data Science was a great opportunity for students to showcase their skills and knowledge in the field. Thus this teams' victory is a testament to the quality of education and training provided by Sri Sairam Engineering College in the AI&DS department.

SOLVATHON 2.0:



On 21/4/2023, Solvathon 2.0, an event aimed at providing a platform for students to solve real-world problems using technology that focused on achieving the United Nations' Sustainable Development Goals. All the students from 2nd year had to submit their project ideas and hence the shortlisted teams had

to present their ideas to the jury members on 20/04/2023. All the teams



had presented their ideas in such a way that their projects supported the Sustainable Development Goals of the United Nations.

For the Goal-1, No Poverty, the project titled 'Hospital Management System (HM-BML)' won the 2nd prize and the team members, Bramarambika P, Harini V,



Sakthisree K, Sarumathi V P along with their mentor Mrs. Zionna Sen G B were awarded with a cash prize of Rs. 750.

For the Goal-8, Decent Work & Economic Growth, the project titled 'The Space Pet' won the 1st prize and the team members, Anjana P, Durga M, Naveen D along with their mentor Mrs. Jena Catherine Bel D were awarded with a cash prize of Rs. 1000.

The team members expressed their excitement and gratitude for winning the Solvathon 2.0 challenge. They mentioned that the event provided an excellent opportunity to apply their technical skills to real-world problems and contribute to society. They also highlighted the significance of the challenge in addressing the various issues of SDG.

Thus, the Solvathon 2.0 was a grand success, with enthusiastic participation from students and experts from the field of technology. The event provided an excellent platform for students to solve real-world problems and contribute to achieving the Sustainable Development Goals. Such events play a vital role in promoting innovation and inspiring students to make a positive impact on society.

IPR EVENT:

On April 26th, the Intellectual Property Rights Cell of Sri Sairam

Engineering College celebrated World Intellectual Property Day by organizing competitions for students. The competition aimed to promote innovative thinking among students and encourage them to come up with unique project ideas.



Thiwarar, student from the Department of Artificial Intelligence and Data Science won the competition with their project idea on a mobile phone holder. The project idea was highly innovative and impressed the judges with its practicality and potential marketability.

The mobile phone holder was designed to be highly customizable, with users being able to adjust it to fit their phone size and design preferences. It was also designed to be lightweight and easily portable, making it convenient for users to carry it around.

The student's project idea was well thought-out and accompanied by a detailed presentation, which highlighted the various features and benefits of the mobile phone holder. The judges appreciated the student's efforts and commended them on their creativity and ingenuity.

The student was awarded a prize for their project idea and recognized for their contribution to promoting innovative thinking and entrepreneurship among students. The student expressed their gratitude to the Intellectual Property Rights Cell for organizing such a competition and providing them with a platform to showcase their creativity and talent.

Overall, the competition held by the Intellectual Property Rights Cell on account of World Intellectual Property Day was a great success. It provided students with an opportunity to showcase their innovative ideas and encouraged them to think outside the box. The winning project idea on the mobile phone holder demonstrated the potential of students to come up with practical and marketable ideas, highlighting the importance of fostering creativity and innovation in today's world.

MIT EVENT – DURGA.M:

On 22/04/2023 and 23/04/2023, Durga M, a student from Sri SaiRam Engineering College, participated in the Carte Blanche 2023 event organised by CSMIT. The event was held at the Madras Institute of



Technology in Chennai and was aimed at providing a platform for students to learn and explore the latest technologies.



One of the workshops conducted during the event was on Machine Learning, conducted by Zoho, a leading software company. The workshop provided an overview of the fundamentals of Machine Learning and its applications in various industries. The participants were introduced to the

concepts of supervised and unsupervised learning, data preprocessing, and model building.

Durga M found the Machine Learning workshop to be very informative and engaging. The instructor from Zoho was knowledgeable and explained the concepts in a way that was easy to understand. The practical examples and hands-on exercises helped to reinforce the learning and provided a glimpse into the potential of Machine Learning in real-world scenarios.

The Carte Blanche 2023 event was a great success, with a large number of students and experts participating in various workshops and events. The Machine Learning workshop conducted by Zoho provided an excellent opportunity for students to learn about this emerging technology and its applications in various fields. Such events play a crucial role in exposing students to new technologies and preparing them for the challenges of the future.

MIT EVENT – A. ELAMUGILAN:

On 22/04/2023 and 23/04/2023, A. Elamugilan, a student from Sri SaiRam Engineering College, participated in the Carte Blanche 2023 event organised by CSMIT. The event was held at the Madras Institute of Technology in Chennai and was aimed at providing a platform for students to learn and explore the latest technologies.



One of the workshops conducted during the event was on Machine Learning, conducted by Zoho, a leading software company. The workshop provided an overview of the fundamentals of Machine Learning and its applications in various industries. The participants were introduced

to the concepts of supervised and unsupervised learning, data preprocessing, and model building.

Elamugilan found the Machine Learning workshop to be very informative and engaging. The instructor from Zoho was knowledgeable and explained the concepts in a way that was easy to understand. The practical examples and hands-on exercises helped to reinforce the learning and provided a glimpse into the potential of Machine Learning in real-world scenarios.

The Carte Blanche 2023 event was a great success, with a large number of students and experts participating in various workshops and events. The Machine Learning workshop conducted by Zoho provided an excellent opportunity for students to learn about this emerging technology and its applications in various fields. Such events play a crucial role in exposing students to new technologies and preparing them for the challenges of the future.

AGRI INNOVATION EXPO 2K23:

Sri Sairam Engineering College students, Sanath and Devender, have brought great pride to the institution by winning the third prize in the Agri innovation expo. The event, which took place on the 15th and 16th of April, was organized by the Indian Council of Agricultural Research (ICAR) and the National Academy of Agricultural Research Management (NAARM).



Sanath and Devender, both third-year students pursuing their Bachelor's in Agricultural Engineering, presented their innovation that focuses on solving a crucial issue that farmers face in the agricultural sector. Their solution, which they named "Intelligent Drip Irrigation System," aims to provide farmers with a sustainable solution to water conservation and increase the efficiency of irrigation systems.



Their innovative system uses advanced technologies like IoT sensors, data analytics, and machine learning algorithms to optimize water usage, predict weather changes, and provide real-time data to the farmers. This helps in reducing water wastage, increasing crop yield, and minimizing the labor and cost involved in traditional irrigation methods.

Their project was highly appreciated by the judges, and they were awarded the third prize for their unique and sustainable solution to a significant problem in the agricultural sector. Sanath and Devender's innovation is a great example of how technology can be used to solve real-world problems and make a significant impact on society.

The Sri Sairam Engineering College community is proud of their achievement and congratulates them on their success. Dr. P.K. Porkumaran, the Principal of the college, praised the students for their innovative approach to solving a crucial issue in the agricultural sector. He also expressed his gratitude towards the faculty members who guided and supported the students throughout their journey.

The college is known for its focus on innovation and research, and this achievement by Sanath and Devender is a testament to the quality of education provided by the institution. The college believes in providing an environment that nurtures creativity and encourages students to pursue their passion for innovation.

In conclusion, Sanath and Devender's success at the Agri innovation expo is a significant achievement for them and the Sri Sairam Engineering



College community. Their innovative solution to the water conservation problem in the agricultural sector is a testament to the impact that technology can have on society. The college community looks forward to more such achievements and hopes to inspire and encourage more students to pursue their passion for innovation and research.

DISC 9 PROJECT PRESENTATION:

On 29 April, the Department of Artificial Intelligence and Data Science participated in the Defense Innovations and Startup Challenges (DISC) 9 cyber security challenges. The event aimed to encourage innovative solutions to address cyber security challenges faced by the defense sector.



Two teams from the department presented their ideas to Mr. Varadharajan, Defence Quality Assurance Officer. The first team presented their solution to address the challenge of providing linux desktop on windows system with the guidance of their mentor Dr Rehash Rushmi Pavithra from

department of Artificial Intelligence and Data Science.

The second team presented their solution develop an AI Based Document Management System for the Indian Air Force (IAF) along with two of their mentors Mrs G B Zionna Sen from department of Artificial Intelligence and Data Science and Dr B Thanuja from Department of Chemistry(S&H).

Mr. Varadharajan appreciated both teams for their innovative ideas and encouraged them to continue working towards developing cutting-edge solutions to address the cyber security challenges faced by the defense sector. He emphasized the importance of developing innovative solutions to stay ahead of cyber threats and maintain the security of critical infrastructure and military communication networks.



The event was a great opportunity for the department to showcase its expertise in the field of artificial intelligence and data science and contribute towards addressing the cyber security challenges faced by the defense sector.

Overall, the event was a great success, with the two teams from the department presenting innovative solutions to address the cyber security challenges faced by the defense sector. The event highlighted the importance of developing cutting-edge solutions to address cyber threats and maintain the security of critical infrastructure and military communication networks.





STAFF ACHIEVEMENT

AGRI INNOVATION EXPO 2K23:



ABOUT THE AGRI INNOVATION EXPO 2K23

The agricultural sector is a central pillar of the Indian economy, employing 60 percent of the nation's workforce and contributing to about 17 percent of its GDP.

Technological innovations have greatly shaped agriculture throughout time. Decreased use of water, fertilizer, and pesticides, which in turn reduces the prices of food. Reduced impact on natural ecosystems. Technological development has been sustainable and can serve as the basis for Sustainable and more efficient methods of Agricultural practices.

Sairam group of Institutions & Tamilnadu Agricultural University Coimbatore Joined together and organizing Agri Innovation Expo 2K23, is an initiative to bring together innovative academics, industrial experts and students to exchange and share their ideas in Sustainable Agriculture practices.

On April 19, 2023, the Leo Muthu Stadium at Sri Sairam Engineering College was abuzz with activity as the first-ever AGRI Innovation Expo 2K23 was organized by the Sairam Group of Institutions and the Tamil Nadu Agricultural University Coimbatore. The aim of this event was to bring together innovative academics, industrial experts, and students to exchange and share their ideas in sustainable agriculture practices.

The agricultural sector is the backbone of the Indian economy, contributing to about 17% of its GDP and

employing 60% of the nation's workforce. Technological innovations have played a vital role in shaping agriculture throughout time. Reduced use of water, fertilizers, and pesticides has resulted in the reduced prices of food, and a reduced impact on natural ecosystems. Technological development in agriculture has been sustainable and can serve as the basis for more efficient and sustainable agricultural practices.

The AGRI Innovation Expo 2K23 was a platform for showcasing the latest agricultural innovations in sustainable agriculture practices. The event included exhibitions of innovative agricultural products, workshops, and seminars by leading experts in the field.



The chief guests for the event were Dr. L. Elango, Professor, Department of Geology, Anna University, and Mr. J. Santhanakrishnan, Retd. Deputy General Manager, BSNL, Chennai. The organizers of the event were our department Head of department, Swagata Sarkar.

The event was inaugurated by Dr. L. Elango, who emphasized the importance of sustainable agriculture practices in ensuring food security and environmental sustainability. He also stressed the need for academia and industry to work together to develop innovative solutions to the challenges faced by the agricultural sector.

Mr. J. Santhanakrishnan, in his address, highlighted the role of digital technologies in improving agricultural productivity and reducing the digital divide in rural areas. He also emphasized the need for effective communication and collaboration between farmers, researchers, and policymakers.

The event included a range of exhibitions showcasing innovative agricultural products, including new varieties of seeds, organic fertilizers, and biopesticides. There were also demonstrations of new farm machinery, irrigation systems, and climate control technologies.

In addition to the exhibitions, there were workshops and seminars by leading experts in the field of sustainable agriculture. Topics covered included soil management, organic farming, pest control, and sustainable water management.

The AGRI Innovation Expo 2K23 was a resounding success, bringing together academics, industrial experts, and students to showcase the latest innovations in sustainable agriculture practices. The event was a testament to the importance of sustainable agriculture practices in ensuring food security and environmental sustainability. We look forward to the next edition of the event and the continued development of sustainable agriculture practices.

IEEE SENIOR MEMBER AWARD:

The IEEE in recognition of professional standing, organised an event to award the officers and board of directors of IEEE certificate on the 20th of April 2023. The event aimed to recognize and appreciate the



contributions of IEEE members to the field of technology and engineering.

The event took place in a prestigious venue in the city and was attended by a large gathering of IEEE members, professionals, and distinguished guests. The keynote address was delivered by a renowned



speaker in the field of technology, who highlighted the importance of professional recognition and standing in the industry.

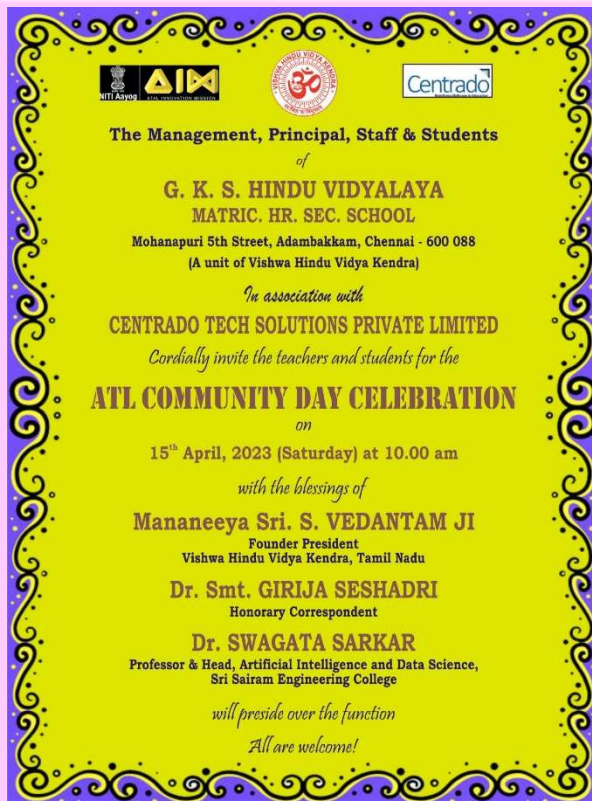
The event also recognized the achievements of the head of the department, who was elected as a Senior Member of IEEE. The head of the department was awarded a certificate of recognition and congratulated by the audience. The officers and board of directors of IEEE were also honoured for their outstanding contributions to the field. They were awarded certificates of appreciation and congratulated by the organisers and attendees.

The IEEE in recognition of professional standing events was a grand success, with the active participation of members, professionals, and guests. The event provided a platform for recognizing the contributions of IEEE members to the field of technology and engineering. The recognition of the head of the department and the officers and board of directors of IEEE added a special significance to the event. Overall, the event was a testament to the IEEE's commitment to promoting professional recognition and standing in the industry.

G.K.S HINDU VIDYALAYA:

The ATL Community Day Celebration event was held on the 15th of April 2023, before 10:00 a.m. at Adambakkam. The event aimed to showcase the projects and innovations developed by the students of Adambakkam's Atal Tinkering Lab (ATL) community.

Girija Seshadri, an experienced educator and former Principal of a renowned school, was invited as the guest speaker. She addressed the



audience and appreciated the efforts of the students in the ATL community. She also highlighted the importance of practical learning and encouraged the students to continue their passion for innovation.

Dr. Swagata Sarkar, a renowned researcher in the field of Science and Technology, was also present at the event. She interacted with the students and reviewed their projects. She provided valuable feedback and suggestions to the students to improve their projects and make them more effective.

The event was attended by students, parents, educators, and distinguished guests from the industry. The students demonstrated their projects and innovations developed in the ATL community. The projects included robotic automation, digital fabrication, and IoT (Internet of Things) applications.

The students showcased their projects and explained their functionalities and benefits. They also answered questions from the audience and received valuable feedback from them. The event provided a platform for the students to showcase their skills and knowledge in STEM fields.

The ATL Community Day Celebration event was a grand success, with the active participation of students, parents, educators, and industry experts. The event provided a platform for the students to showcase their skills and knowledge in STEM fields. The contributions of Girija Seshadri and Dr. Swagata Sarkar made the event more informative and engaging. Overall, the event was a testament to





the school's commitment to promoting practical learning and innovation through the ATL community.

INTELLECT VISIT:



Sri Sairam Engineering College staff members recently had the opportunity to visit Intellect, formerly known as Polaris, and participate in a walkthrough of their design thinking workshop. The event was attended by staff members from various departments of the college who were eager to learn about Intellect's innovative approach to problem-solving.

Design thinking is a human-centered approach to innovation that involves empathy, creativity, and rationality to find solutions to complex problems. The workshop at Intellect provided a unique opportunity for the staff members to gain insights into the design thinking process and how it can be used to solve real-world problems.

During the walkthrough, the staff members were able to observe the various stages of the design thinking process, including problem identification, ideation, prototyping, and testing. They also had the chance to interact with Intellect's experienced designers and learn from their expertise.





In addition to the walkthrough, Intellect has extended an invitation to the faculty members of Sri Sairam Engineering College for a faculty development program on design thinking. This program will help the faculty members to incorporate design thinking into their teaching methodologies, thus enabling them to provide their students with a more holistic and practical approach to problem-solving.

The visit to Intellect has been an enriching experience for the staff members of Sri Sairam Engineering College. It has provided them with valuable insights into design thinking and how it can be used to address real-world challenges. The faculty development program that Intellect has offered will further enhance the capabilities of the college's faculty members and enable them to provide better learning opportunities for their students.

THANK

YOU