



NAZARETH COLLEGE OF ARTS & SCIENCE

(Affiliated to the University of Madras)

(Re-accredited with 'B' grade by NAAC)

Kovilpadthagai Main Road, Kannadapalayam, Avadi

ARRAY EXPRESS



2023-2024 / Vol 05

DEPARTMENT VISION:

To develop quality professionals with technical skills in problem solving and application

DEPARTMENT MISSION:

- To provide hands on experience in the field of advanced information technology.
- To enhance proficiency in problem solving techniques.
- To develop professional leaders with ethical and human values.
- To create knowledge of innovation and sustainability to build a technologically advance society.

DEPARTMENT OF COMPUTER SCIENCE



EDITOR

Dr. E. MANO RANJITHAM M. Sc., M.C.A., M.Sc(Psy), M.Phil

ASSOCIATE EDITORS

Ms. R. Meenakshi M. Sc(ESC), M. Phil(ESC)

Ms. R. Kaviyarasi M. Sc(CS), M.C.A., M.B.A., M.Phil

Ms. S. V. Rajiga M.C.A., M.Phil

Ms. S. Abhirami, M.C.A., M. Phil., S.E.T.

STUDENT EDITORS

Mr. V RAHUL

2ND B Sc(C.S)

Mr. M S SANOJ KUMAR

2ND B Sc(C.S)



Secretary's Message

"Education is the passport to future, for tomorrow belongs to those who prepare for it today"

-Malcolm X.

I am delighted to know that the Department Of Computer Science is set to release in fourth issue of News Letter. The Insurance of this news letter is the assurance of our ideal education service that likely to be extended in future. I offer my appreciation to the members of the faculty and students involved in bringing out the edition victoriously.



PRINCIPAL'S MESSAGE



Dear students and faculty it is a great happiness, I share my thought and wishes for the news letter of the Department of Computer Science. The release of the "Array Express" another milestone in the department towards innovation and knowledge sharing.

THE AGE OF THE BIG DATA

Data science has taken over the corporate world in the last few years. In today's digital world, lot of information is stored in big data. Those data provide the opportunities to solve the big problem of the society. Information is the oil of the 21st century and analytics in the combusine engine said by Peter Sondergaard, senior vice president, Gartner.

So if one is good in numbers and fascinated by data be ready for opportunities that knock that door embrace the new age of big data. I congratulate the department for this initiative and believe that teaching learning combine with practical experience will equip the students to handle challenges in all walks of life and help them to embrace the age of big data.

VICE PRINCIPAL'S MESSAGE

"INSIDE ALL OF US IS A HIDDEN DREAM"

Dear Reader's

Greetings to you and warm wishes!

"The mind is not a vessel to be filled, but a fire to be kindled." Said Plutarch. I congratulate the staff and students of all faculties who used various mediums of expression to present their ideas. As long as our ideas are expressed and thoughts kindled we can be sure of learning, as everything begins with an idea.

Array Express, our Department magazine, is a platform for our students to showcase their creative abilities hidden dreams and aspirations for writing. Our magazine aims towards bringing out the talents in our students through articles, poems, quizzes and experiences. We at Array Express Encourage our students to put on their thinking caps and create.



LOGIN LAURUS ASSOCIATION MEMBERS

LOGIN LAURUS “conserving victory” Association of the Department of Computer Science is a platform for computer pursuing students to enhance the interpersonal and leadership skills among the students. The Association also helps the students to keep in track of current trends in IT field by organizing and participating in various IT related events.

STAFF MEMBERS

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ASSISTANT PROFESSOR

Ms B YUVARANI

ASSISTANT PROFESSOR

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SECRETARY

Mr D Parveen

THESAURUS

Ms V Nandhini



E-WASTE MANAGEMENT AWARENESS PROGRAM

On 18th August, 2023, Mr. D. Parveen and Ms. V. Nandhini from III B.Sc (CS) presented an informative session on E-Waste Management for II and III-year students. Mr. Parveen defined E-Waste, classified it into categories such as home appliances and electronic devices, and highlighted the toxic materials that pose health risks. He also discussed effective disposal methods and recycling techniques, supported by visual data showing E-Waste production by various countries and states in Tamil Nadu.

Ms. Nandhini focused on the environmental pollution caused by E-Waste, explaining its detrimental effects on water, air, and soil with practical examples. The session concluded with strategies for managing E-Waste and a Q&A session to clarify student queries. A short video illustrated the broader impact of E-Waste on the country, leaving the 432 attending first-year students informed and motivated to take action. Feedback forms were distributed to gather participants' insights for future improvements.

E-WASTE DROP-OFF @ NAZARETH COLLEGE

On 19th August this event was organized with the primary objective of contributing towards the achievement of Sustainable Development Goal (SDG) Target 12.5, which aims to reduce E- waste through prevention, reduction, recycling, and reuse.

E-WASTE DISPOSAL ACTIVITY

An E-Waste management awareness program was held on August 31, 2023 for school and college students, featuring a disposal demonstration coordinated by Ms. R Kaviyarasi and Virogreen India Pvt Ltd.

On collection day, the college team handed over the E-Waste materials, and funds were transferred via RTGS. A disposal certificate will be issued within 30 days, successfully educating students on proper E-Waste disposal.



E-WASTE EXHIBITION ON TECHNOLOGY TRANSFER

This event was organized to educate school students on responsible technology transfer and electronic waste management. Its goal was to raise awareness about the ethical use of technology and sustainable E-Waste management.

Twenty students participated in the exhibition, showcasing their work and engaging interactively. Cash prizes were awarded to recognize their efforts and contributions.



POSTER PRESENTATION OF STARTUP

Objective: Showcase innovative ideas, receive feedback, and learn startup essentials.

The Poster Presentation of the Startup Competition was held on August 29, 2023, showcasing the innovative potential of young minds across various entrepreneurial domains. Eleven teams, each with two participants, totaling 22 students, presented groundbreaking ideas under themes such as Textile, Organic Products, Child Products, and Health Products.



The event began at 10:30 AM with a warm welcome and an introduction to the agenda. Esteemed judge Mr. Ajay Pradeep, a seasoned entrepreneur, delivered an inspiring speech about his journey, motivating participants to pursue their entrepreneurial dreams. His engagement with each team was remarkable, as he posed critical questions and provided constructive feedback during the presentations. The Q&A sessions highlighted the students' dedication and understanding of market dynamics. The event concluded with a vote of thanks, and many students continued to seek Mr. Pradeep's guidance afterward, reflecting his commitment to nurturing future entrepreneurs.

Learning Outcome: Improved pitch, refined business plan, valuable networking and practical entrepreneurial skills.

WORLD SUICIDE PREVENTION DAY



The Department of Computer Science organized an awareness program on 14th September 2023 for the students. The objective of the event was to create awareness on preventing negative thoughts, and raise some positive thoughts among them. The event was held in Lab1. The event had some positive impacts on our college students. The event educated individuals and communities on the importance of the positivity in their life.

Lectures were delivered with the aid of Microsoft power point presentations and videos . A total of 50 students attended the session.

WORLD OZONE DAY

On September 14, 2023, an event focused on raising awareness about protecting the ozone layer was organized. A total of 150 students participated, engaging in activities designed to highlight the ongoing need to safeguard this vital component of our planet's environment.

The event, held on campus starting at 9:00 AM, featured posters on topics such as "Behavior Lines for Sustainable Development," "Safety is on the First Place," "World Ozone Day," and "Preservation of the Ozone Layer." Participants who submitted the best work were recognized for their contributions. The activities effectively educated students about the importance of protecting the climate and the ozone layer, fostering a positive impact on their understanding of sustainable practices. Overall, the event inspired collective action towards preserving and restoring this critical environmental asset.

FUND RAISING

Dates: September 13 (Wednesday) and September 15 (Friday)

The Department organized a successful fundraising program for LACORSA 23, providing valuable learning experiences for students through two phases.

Phase 1: On September 13, students set up snack stalls during lunch, using a token system for efficient transactions. This phase taught them skills in organizing, pricing, and financial management.

Phase 2: On September 15, lunch packs, including chicken biryani and vegetable brinji, were sold, generating substantial revenue. Approximately 120 packs were sold, covering initial investments and contributing profits to LACORSA 23.

Overall, the program effectively raised funds while equipping students with essential skills in teamwork, marketing, and customer service.





LA CORSA 2K23

The department orchestrated an electrifying extravaganza on the 22nd of September 2023 – La Corsa'23! This extraordinary event was the talk of the town, and here's what went down.

La Corsa '23 featured a stellar lineup of five on-stage and two off-stage events, attracting students from various colleges to this tech extravaganza. As the day concluded, Mr. D. Parveen, the IT Association Secretary of III B.Sc CS, welcomed attendees to the valedictory session, with Dr. E. Mary Angeline, Principal of Nazareth College of Arts and Science, in attendance. The highlight was the introduction of **Chief Guest Mr. Hari Pravin**, *Co-Founder and Chief Product Officer at Krazy Buddy Technologies*, who inspired the audience with insights on entrepreneurship and AI.

Mr. Pravin's compelling message urged attendees to seize opportunities without delay. Winners and runners-up were honored with certificates and prizes, enhancing the excitement of the event. With a total of 250 participants, La Corsa '23 provided valuable exposure and empowerment for students to chase their dreams. Ms. V. Nandhini, IT Association Treasurer of III B.Sc (CS), concluded the event with a vote of thanks to all contributors to its success.



UPSKILL MS OFFICE

On January 6, 2024 a workshop to enhance staff skills in MS Office conducted by Ms S Abirami and Ms B Yuvarani. The workshop focused on advanced techniques in Word, Excel, PowerPoint, and Outlook. Participants engaged in interactive demonstrations and hands-on practice, gaining practical insights into maximizing the functionalities of MS Office for improved productivity and efficiency. The event not only provided valuable training but also fostered a collaborative environment, contributing to the overall technical proficiency of the staff and enhancing operational efficiency within the department.

BIG FIGHT – DEBATE

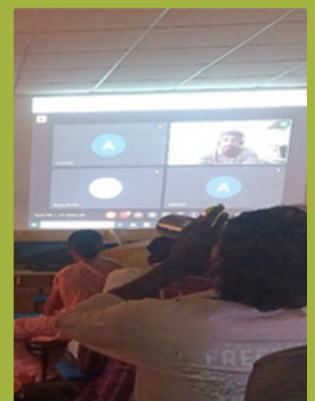
A debate competition for students titled “Real IT Industry” was held on 14.02.2024. **Ms S Mumtaz Begum Barclays DLF IT Park** hosted as Chief Judge of the event. The judge equipped the participants with valuable insights on the demands of Real IT industry.

CYBER SECURITY

The Department conducted a “Workshop on Cyber security” on 22.02.2024. Mr ChandraPrakash Sankar, Founder and Director of Hackers InfoTech, Tirupur educated the school staff, college staff and students to protect their devices and themselves from Cyber Threats.

E-SHARING : SOFTWARE TESTING

The Department organized the event on 23.02.2024. Mr Jeba Kumar Rajasingh, Senior Associate of CTS, Chennai hosted as the resource person. The students gained industrial knowledge.



**Push yourself
because no one
else is going to do
it for you**



Best practices

“If you don’t like your destiny then don’t accept it.
Instead have the courage to change it the
way you want it to be.”

E-Waste Awareness and Management:

“Promoting
Awareness and
Responsible
Management of E-
Waste” (STEW-Stop
Throwing E
Waste)

E-Waste Policy:

REPAIR,
REFURBISH,
RECYCLE,
REUSE

Cybersecurity Awareness and Hands-On Training:

“Enhancing
Cybersecurity
Awareness and
Practical Skills for a
Safer Digital
Environment”

Virtual Learning:

“Enhancing
Computer Skills
Through Virtual
Learning”

E-Sharing:

"Empowering
Student Success
Through Expert
Knowledge and Skill
Development"

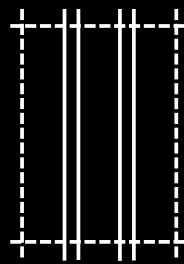
Peer Update:

“Fostering Staff
Development
Through Knowledge
Exchange”

Coding Club:

“Enhances skills,
promote
collaboration, and
build a supportive
programming
community”

***If you want to achieve success,
stop asking and start doing.***



-Best Practice

E Waste

- E Waste Awareness and Management to E-Waste Collection Point

- 1.Drop off
- 2.Disposal
- 3.Green Certificate

- E –Waste Exhibition
- Profit from E-Waste
(Rs.12,075, 610 Kgs)
- E-Waste Models

Models :

Reboot E-Waste



E-Waste Notice Board

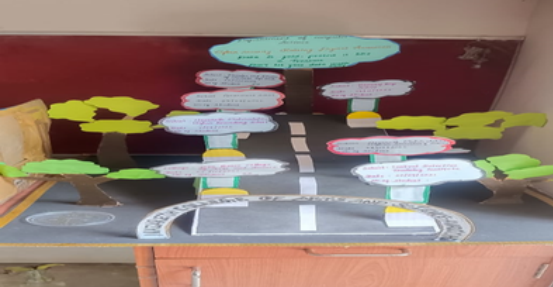


E-Waste Garden

Cyber Security



- 1.Cyber Week Celebrations
- 2.Certificate Course
- 3.Cyber Security Awareness to Schools and Community
- 4.Live Hacking Workshop
5. Cyber Security Models.



Coding Club

- Collaboration
- Learning and Skill Development
- Project-Based Learning
- Networking and Community Building
- Mentorship
- Coding Challenges and Competitions
- Showcasing Projects
- Access to Resources
- Open and Inclusive Environment

Rahul V

2nd B Sc CS 'A'

Most of the good programmer do programming not because they expect to get paid or to get adulation by the public, but because it is fun to program.

By - Rahul V



Sanoj Kumar M S

2nd B Sc CS 'A'

Success is no accident. It is hard work, perseverance, learning, studying, sacrifice and most of all, love of what you are doing or learning to do.



Welcome to this edition of our newsletter! We are thrilled to highlight the remarkable events and initiatives undertaken by the Department of Computer Science. Our recent workshop on MS Office, conducted in collaboration with the Internal Quality Assurance Cell (IQAC), provided an invaluable opportunity for staff to enhance their technical skills.

Additionally, we celebrate the success of La Corsa '23, an engaging tech extravaganza that brought together students from various colleges. With inspiring talks from industry leaders and thrilling competitions, the event not only showcased innovation but also fostered a spirit of entrepreneurship among participants. As we continue to support our students and staff in their pursuits, we encourage everyone to stay engaged, seek out opportunities for growth, and contribute to our vibrant academic community. Thank you for your continued support, and we look forward to sharing more inspiring stories in the future.

Warm regards,
Editors



```
__init__(self):  
    gpuInfo.get_gpu(0)  
    load = 0  
    gpu_clock = round(gpuInfo.get_gpu_clock(0))  
    gpu_memory_usage = round(gpuInfo.get_gpu_memory_usage(0))  
    gpu_temperature = round(gpuInfo.get_gpu_temperature(0))  
    power = gpuInfo.get_gpu_power(0)  
    voltage = round(gpuInfo.get_gpu_voltage(0))  
    fans = sensors_fans()  
    for name, value in fans.items():  
        self.__dict__[name] = value
```

