



DAY - 2 - 03.03.2024



The Best Teacher Award -Student's Favorite Award Ceremony took place on March 3, 2024. Professor T. S. Natarajan graced the event as the chief guest, adding prestige to the occasion. Dr. Srinivasan Alavandar, Principal, presided over the event. The Department of Science and Humanities organized the event, which was led by Dr. Arul Kulandaivel, Head of the Department of Science and Humanities. 128 teachers from various schools (90+) were recognized for their outstanding contributions, and the positive feedback received highlighted the lasting impact they've had on students at Agni College of Technology. One of the highlights of the feedback was that teachers showed their gratitude towards the institution, and the ceremony not only honoured teachers but also strengthened the bond between teachers and students, fostering mutual respect and admiration within the academic community. The event came to an end with Dr. KalaiMurugan, Hod/EEE, delivering a vote of thanks.













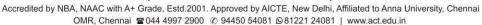




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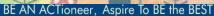
GALLERY





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BEST TEACHER AWARD - 2024

DAY - 3 - 04.03.2024



Over the three days event from March 2nd to March 4th, 2024, we had an amazing turnout. More than 900 teachers reached, with over 350 registering for the event. We honored 250 teachers from 150 different schools. Throughout the event, teachers cherished their moments in the ceremony, expressing gratitude towards the management for the recognition and appreciation. time of celebration and was a acknowledgment, further strengthening the bond between teachers and the academic community.









GALLERY







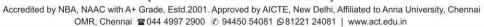










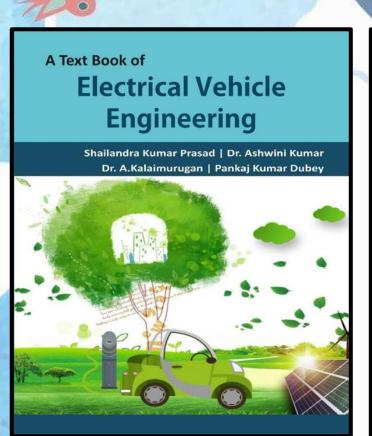




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FACULTY ACHIEVEMENT





IGNITE

Electrical Vehicle Engineering





Dr. A. Kalaimurugan., HOD, Department of Electrical and Electronics Engineering, has published a book in the emerging titled "Electric Vehicle Engineering" under field RK Publications with the ISBN number 978-81-970539-7-9.











IGNITE A DAILY NEWSLETTER

STUDENT PUBLICATION



International Research Journal of Modernization in Engineering Technolog
(Peer-Reviewed, Open Access, Fully Referred International Journal
Volume:06/Issue:02/February-2024 Impact Factor- 7.868 w PRE-ANALYSIS OF BREAST CANCER BY THERMAL AND IR SENSORS WITH MACHINE LEARNING

Dr. J Binu Clara*1, Balaji V*2, P Sylvia Praisy*3, Swetha E*4, Lokesh K*5 *1 Assistant Professor, Biomedical Department, Agni College Of Technology, Chennai,

Tamii Nadu, India.
*2.34.5Student, Biomedical Engineering, Agni College Of Technology, Chennai, Tamil Nadu, India. DOI: https://www.doi.org/10.56726/IRJMETS49782

ABSTRACT

The innovative smart jacket for women integrates non-contact IR sensors and Thermal Sensors with Arduino IDE The innovative smart jacket for women integrates non-contact IR sensors and Thermal Sensors with Arduino IDE WIFI modules, Node MCU, to monitor breast temperature, By employing machine learning analysis, it is distinguishes normal and abnormal temperature patterns, issuing alerts to users via mobile phones for potential early detection of breast cancer. This practive approach not only empowers women with real-time health information but also increases survival chances through timely intervention. Unlike conventional breast cancer in information but also increases survival chances through timely intervention. Unlike conventional breast cancer in information but also increases survival chances through timely intervention. Unlike conventional breast cancer discusses such as mammography and biospies, this system offers a novel method for identifying lumps and cancerous tissue. The array of contactless IR sensors and Thermal Sensors, embedded in wearable material, a facilitates proceive tumor analysis. Through training samples with machine learning algorithms and setting threshold values, the system effectively delineates tumor areas. This groundbreaking fusion of technology and healthcare promises to revolutionize breast cancer detection, potentially saving countries lives by enabling practive intervention and treatment.

Keywords: Non-Contact IR Sensor, Thermal Sensor, Pre-Clinical Analysis, Machine Learning.

INTRODUCTION

I. INTRODUCTION

Breast cancer remains one of the most prevalent and life-threatening diseases affecting women globally.
Despite significant advancements in medical science, early detection remains paramount for effective treatment and improved survival rates. Traditional methods like mammography and biopsies, while effective, are often limited by accessibility, cost, and discomfort. In response to these challenges, our paper emerges at the intersection of technology and healthcare the Smart Jacket for Breast Cancer Detection.
He Smart Jacket represents a paradigm shift in Dreast cancer detection, harnessing the power of non-contact infrared (IR) sensors, thermal sensors, machine learning analysis, and mobile communication to provide real-time insights into breast health. Developed with a vision to empower women with proactive health monitoring and early intervention, this innovative solution offers a transformative approach to combating breast cancer.

At the heart of the Smart Jacket like its sonbitisations of several sensors are strategically employed with the warrable.

and early intervention, thisinnovative solution offers a transformative approach to combating breast cancer. At the heart of the Smart Jacket liss its sophisticated sensor array, strategically embedded within the wearable fabric. These sensors, including non-contact IR sensors and thermal sensors, enable continuous monitoring of breast temperature variations. Unlike conventional techniques that rely on imaging modalities like mammography or broader demographic and the smart scheduler of the same strategies and the same strategies are successful to a broader demography. The same strategies are successful to a broader demography. The integration of proader demography and the same strategies are successful to a successful to a successful to a successful to a successful to successful the successful to the successf

increasingly adept at recognizing suited elevations indicative of early-stage breast cancer.

A key feature of the Smart Jacket is its seamless connectivity with mobile devices via Arduino IDE WIFI modules and Node MCU. Upon detecting anomalous temperature patterns, the system promptly sends alerts to the user's martphone, ensuring timely intervention and medical consultation. This real-time feedback loop empowers women to take proactive steps towards their health, fostering a sense of agency and control over their well-

tieng.
Compared to traditional breast cancer detection methods, the Smart Jacket offers several distinct advantages
Firstly, its non-invasive nature eliminates the discomfort and anxiety often associated with mammograms or
biopsies, encouragingmore frequent and consistent monitoring. Secondly, by enabling early detection through



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Ms. Swetha E, Ms. Sylvia Praisy P, Mr. Balaji. V, and Mr. Lokesh K, IV year students in the Department of Biomedical Engineering, have published a paper on "Pre-

Analysis of Breast Cancer by Thermal and IR Sensors with Machine Learning" in the journal "International

Research Journal of Modernization in Engineering

Technology and Science" under the guidance of Dr. Binu

Clara I on 02nd February, 2024.









OUTREACH PROGRAM



Dr. N.V.S. Sree Rathna Lakshmi, Profesor/Head, and Ms. D. Maheswari, Senior Assistant Professor, along with Vignesh S., Manoj M., Karunya R.K., and Subratha A., II Year students, Electronics and Communication Engineering, have visited the Chinmaya Vidyalaya Senior Secondary School, Virgambakkam, to teach basic electronics to kids as an outreach program.









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STUDENT ACHIEVEMENT



Boopalan, Student, IV Year, Department of Electronics and Communication Engineering, has successfully completed the HTML, CSS, Bootstrap, and Javascript modules in fullstack web development from Agni College of Technology, organized by the Edureka Learning Centre.















a Veranda Enterprise

THIS IS TO CERTIFY THAT



Gokul

Agni College of Technology

completed the HTML, CSS, Bootstrap and JavaScript Modules in Full Stack Web Development, Campus-in-Campus Program

Vineet Chaturvedi

Co-founder & CEO, Edureka

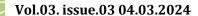
Gokul, student, IV Year, Department of Electronics and Communication Engineering, has successfully completed the HTML, CSS, Bootstrap, and Javascript modules in full stack web development from Agni College of Technology, organized by the Edureka Learning Centre.











STUDENT ACHIEVEMENT





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THIS IS TO CERTIFY THAT

Logeshwari V

Agni College of Technology

completed the HTML, CSS, Bootstrap and JavaScript Modules in Full Stack Web Development, Campus- in-Campus Program

Vineet Chaturvedi

Co-founder & CEO, Edureka

Logeshwari, Student, IV Year, Department of Electronics and Communication Engineering, has successfully completed the HTML, CSS, Bootstrap, and Javascript modules in full stack web development from Agni College of Technology, organized by Edureka Learning Centre.









STUDENT ACHIEVEMENT



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THIS IS TO CERTIFY THAT

Om Diwakar

Agni College of Technology

completed the HTML, CSS, Bootstrap and JavaScript Modules in Full Stack Web Development, Campus-in-Campus Program

Vineet Chaturvedi

Co-founder & CEO, Edureka

Om Diwakar, Student, IV Year, Department of Electronics Communication and Engineering, has successfully completed the HTML, CSS, Bootstrap, and Javascript modules in full stack web development from Agni College of Technology, organized by Edureka Learning Centre.





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a Veranda Enterprise



THIS IS TO CERTIFY THAT

Sri Rakshaga

Agni College of Technology

completed the HTML, CSS, Bootstrap and JavaScript Modules in Full Stack Web Development, Campus- in-Campus Program

Vineet Chaturvedi

Co-founder & CEO, Edureka

Sri Rakshaga, Student, IV Year, Department of Electronics and Communication Engineering, has successfully completed the HTML, CSS, Bootstrap, and Javascript modules in full stack web development from Agni College of Technology, organized by Edureka Learning Centre.







STUDENT ACHIEVEMENT





KIT- KALAIGNARKARUNANIDHI INSTITUTE OF TECHNOLOGY

An Autonomous Institution, Coimbatore - 641402.

Approved by AICTE and Affiliated to Anna University, Chennal

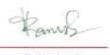


This is to certify that Mr./Ms. ... K ... SURYA

of I/II/III/IV year. AGNI. COLLEGE OF TECHNOLOGY

has participated / won 1/H/HH Prize in the event... PARACHUTE... LANDING......

at UDHAYAM'24 - An Intercollegiate Technical and Cultural Fest held on 01 March 2024.









CEC

Surya.K., III Year Student, Department of Aerospace Engineering, has participated in **Parachute Landing** at UDHAYAM'24, an Intercollegiate Technical and Cultural Fest held on March 1, 2024, in Kalaignar Karunanidhi Institute of Technology, Coimbatore. He has won I prize and a cash award of Rs. 2500.









STUDENT ACHIEVEMENT



Surya.K., III Year Student, Department of Aerospace Engineering, has participated in **Water Rocketry** at UDHAYAM'24, an Intercollegiate Technical and Cultural Fest held on March 1, 2024, in Kalaignar Karunanidhi Institute of Technology, Coimbatore. He has won the III prize and a cash award of Rs. 1000.







STUDENT ACHIEVEMENT



Surya.K., III Year Student, Department of Aerospace has participated in **H20** Rocketry Engineering, Takshashila'24, organized by Chennai Institute of Technology Kudrathur, held from 29th February to 1st March,2024. He has won a prize and a cash award of Rs. 1500.









STUDENT ACHIEVEMENT







This is to cer	tify that Mr./Ms	KSuzya		
of I/II/III/IV year	AUNT COLLEGE	OF TECHNOLOGY	у	

at UDHAYAM'24 - An Intercollegiate Technical and Cultural Fest held on 01 March 2024.

III Year Student, Department of Aerospace Engineering, has participated in PPT at UDHAYAM'24, an Intercollegiate Technical and Cultural Fest held on March 1, 2024, in Kalaignar Karunanidhi Institute of Technology, Coimbatore. He has won a prize and a cash award of Rs. 2500.

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OF ACHIEVEMENT

This certificate is presented to

Nanthini Priya.R

for successfully completing a Course about

Hands On Machine Learning

Course Start Date: 2024-03-02

Certified No.

16708181927







www.mindluster.com



2024-03-02

Date

Nanthini Priya R, III Year Student, Department Information Technology, has completed a course "Hands on Machine Learning" organized by Mind Luster on March 02, 2024.













WEBINAR SERIES



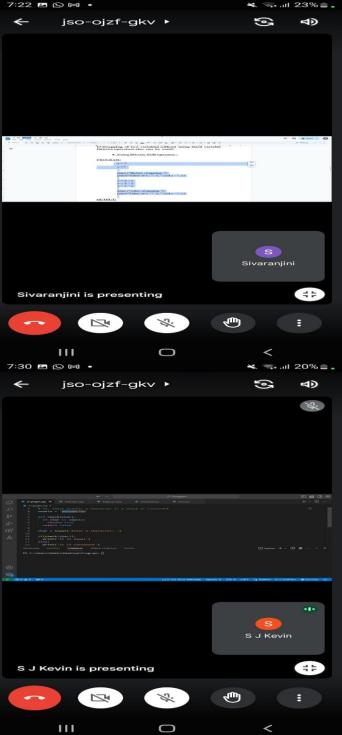
The Department of Artificial Intelligence and Data Science has arranged the WEBINAR SERIES on MOC PLACEMENT CODING SKILLS from 1.3.2024 to 5.3.2024. The webinar on "CODING" SKILLS" was efficaciously conducted by Speakers Sai Manogna P R, Sivaranjini M, and Mohamed Halith S, III year AI&DS, from 7.00 **p.m. to 8.00 p.m.** through Google Meet. 12 programs were discussed through online compilers, and many positive feedbacks were given by 3rd AI&DS students regarding the same.

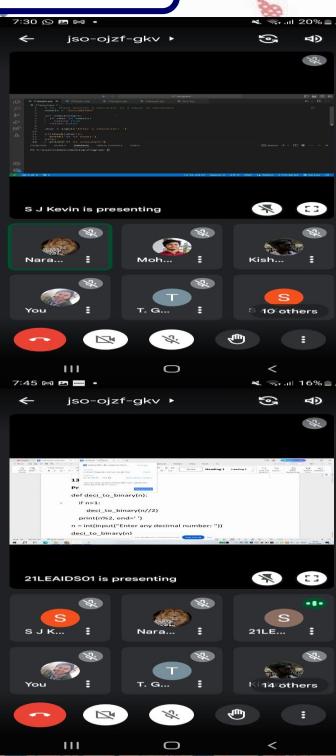






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STUDENT PARTICIPATION



Neha V, III Year, Department of Computer Science and Engineering, has participated in "TECHINOKYRIOS & AMETROS-2K24," organized by Anand Institute of Higher Technology, Chennai, held on 2nd March 2024.









STUDENT PARTICIPATION



Archana.G.V., III Year, Department of Computer Science and Engineering, has participated in the event "BUG OFF" and won 2nd place at "TECHINOKYRIOS & AMETROS-2K24," organized by Anand Institute of Higher Technology, Chennai, held on 2nd March 2024.





STUDENT PARTICIPAION







CERTIFICATE

OF PARTICIPATION

This is to certify that

Vignesh S

has successfully participated in the

'QUIZ ON QUALITY AND STANDARDS 2.0'.

We appreciate your enthusiasm and commendable efforts to participate.

Bureau of Indian Standards

Vignesh, II Year Student, Electronics and Communication Engineering, has participated in "Quiz on **Standards 2.0,"** organized by the Bureau of Indian Standards.













Final year students, Department of Biomedical Engineering had their placement training in "Medical Coding" on the topic "Paraphrasing using Medical Terminologies" through Google Forms, which was conducted by Ms. Aishwarya Raj, Assistant Professor, on 04th February, 2024.







MINI PROJECT FIRST REVIEW













Third-year Artificial Intelligence and Data Science students completed their "MINI PROJECT REVIEW" titled "STUDY MATERIAL APP FOR AIDS **DEPARTMENT**" on March 2, 2024. All the faculty members were presented in the review. Suggestions and improvements were given to the students. This Mini Project was conducted outside of the curriculum for the students.









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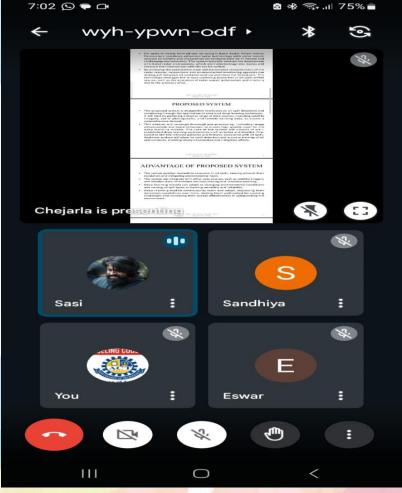








PROJECT DISCUSSION





Assistant Professor, Electronics Shankar, Communication Engineering, has conducted an online project meeting for IV year students, Sasivelan S, Sandhiya MM.,and Eswar KK.to discuss the project completion status.











NAAN MUDHALVAN PROGRAM

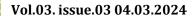


The third-year students of Artificial Intelligence and Data Science attending "NAAN MUDHALVAN-PROMPT ENGINEERING" on 4th March ,2024 from 9.00 a.m. to 4.00 p.m. Mentored by M. Rahul J., Assistant Professor, Department of Artificial Intelligence and Data Science.



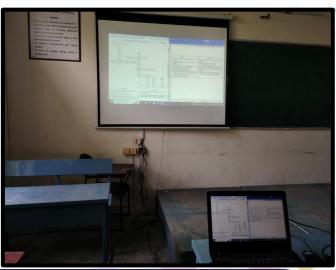






CLUB ACTIVITY





A club activity on "Technical Puzzle" was conducted for III students in the Department Mechanical of by Dr.P.Purushothaman Engineering organized HOD/MECH on 2nd March 2024 .The activity helped the students to develop their IQ and motivated them to participate in more technical events.









