

IGNITE 2023



A DAILY NEWSLETTER

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PLACEMENT DIVISION



The final year students from the department of Chemical Engineering have attended Placement Drive conducted by DCW Factory on 9th May 2023 at the company premises in Thoothukudi.

DCW Limited is an India-based company, which is engaged in chlor - Akali, synthetic rutile and polyvinyl chloride (PVC) business segments. The Company offers a range of products with a focus on commodity chemicals, specialty chemicals, and intermediate products.

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PLACEMENT DIVISION



The final year students from the department of CSE & IT have attended **Placement Drive** conducted by ROX Trading and System Private Limited on 8th May 2023 at the company premises.

The organizational structure of ROX places the customers on top, sales force second-as the most direct link to them, and everyone else at their service with the sole motive to deliver the best products and services to their customers. Team ROX seamless service and support jointly achieve success not only to the company but also to our clients.

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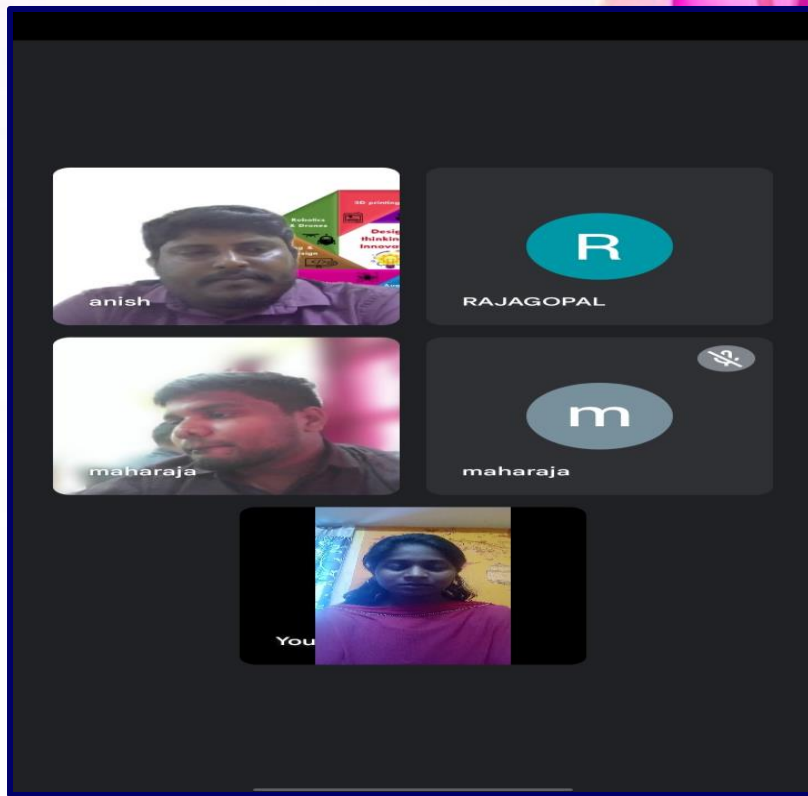


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PLACEMENT DIVISION



The final year students from the department of ECE & IT have attended **Virtual Interview** conducted by Centrado Tech Solutions Pvt Ltd on 8th May 2023. Centrado is focused towards shaping and transforming Young Minds to become “Global Innovators of Tomorrow”. The company has inspired thousands of school students through their STEM platform, products and solutions that enable them to “ideate, tinker and innovate” and come out with creative solutions to thousands of real world problems.

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ALUMNI ASSOCIATE INTERVIEW



An alumni associate interview has held on May 8, 2023. Dr. Srinivasan Alavandar, Principal, Mrs. D. Maheswari, Alumni Coordinator, Mr.S.Ohm Shankar, ECE Alumni Coordinator and Mr. Praveen Karthikeyan, Alumni President are on the interview panel.

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STUDENT-FACULTY ACHIEVEMENT



Prediction of Heart Disease Using Machine Learning Algorithms

¹Sowmiya T, ²Suriyapriya M, ³Thenguzhali J, ⁴Mrs. Jancy Rani K

^{1,2,3} Student, Computer Science and Engineering, Agni College of Technology, Chennai-600 130.

⁴ Assistant Professor, Computer Science and Engineering, Agni College of Technology, Chennai-600 130.

ABSTRACT:

Machine Learning is used in a wide variety of applications. Machine Learning could play an important role in predicting heart disease. Heart diseases are increasing in our daily lives and the cases of heart diseases are increasing and it is very important to predict any such kind of diseases beforehand. In most cases, the diagnosis of Cardio Vascular disease has become one of the most complicated tasks in the medical fields. Within this time, approximately one person dies due to upset. This research paper mainly focus on which paper is most likely to have a heart disease based on various medical conditions. Heart Disease Prediction is a difficult task, there is a requirement to automate the prediction process to classify the patient's risk level by using methods such as Naïve Bayes, Decision Trees, Logistic Regression, Support Vector Machines, Random Forests and to prevent the related risks and to warn patients before they are affected by heart disease. This document conducts comparative studies by analyzing the effectiveness of various aspects of machine algorithms. The test confirmed that the Logistic Regression algorithm has the highest accuracy of 90.06% compared to other machine learning algorithms.



Sowmiya . T, Suriyapriya .M, and J. Thenguzhali , IV-year students, have published a paper on the **Prediction of heart disease using a Machine Learning Algorithm** under the Guidance of the Faculty, Mrs. Jancy Rani . K., in the International Journal of Research Publication and Reviews, Vol. 4, No. 5, pp. 484–489, May 2023.

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STUDENT ACHIEVEMENT



Swethaa Sree C. S, final year student, from the Department of Biomedical Engineering has won **first place** in the event Thanithirami at 5th Inter State Sharpatta Open Silambam Tournament - 2023, organized by Tamilnadu Sports Sharpatta Silambam Association held on 7th May 2023 at Queen Marys College, Chennai.

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STUDENT ACHIEVEMENT



Corporate
Social
Responsibility

Certificate of Course Completion

Cisco Networking Academy

Networking Essentials

The student has successfully achieved student level credential for completing Networking Essentials course administered by the undersigned instructor. The student was able to proficiently:

- Explain the concept of network communication.
- Explain the basic requirements for getting online.
- Build a simple home network.
- Explain the importance of standards and protocols in network communications.
- Explain how communication occurs on Ethernet networks.
- Create a fully connected LAN.
- Explain the DHCP address assignment process.
- Explain the principles of IPv4 and IPv6 address management.

- Explain how clients access internet services.
- Explain the function of common application layer services.
- Configure an integrated wireless router and wireless client to connect securely to the internet.
- Connect wireless PC clients to a wireless router.
- Explain how to use security best practices to mitigate attacks.
- Configure basic network security.
- Explain how to use the Cisco IOS.
- Build a simple computer network using Cisco devices.

Gowtham M

Student

Tamil Nadu Skill Development Corporation

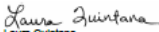
Academy Name

India

Location

10 Apr 2023

Date



Laura Quintana
VP & General Manager, Cisco Networking Academy



Gowthan M, II year student, Department of Electronics and Communication Engineering has completed the **Network Essential** Course offered by Cisco Networking Academy on 10th April 2023.

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STUDENT-FACULTY ACHIEVEMENT



International Journal of Research Publication and Reviews

Journal homepage: www.ijrpr.com ISSN 2582-7421

Ethereum Auction System Using Blockchain

Monish V^{*1}, Rohith B^{*1}, Sairam G^{*1}, Prinslin L^{**2}

^{1*}Computer Science and Engineering, Agni College of Technology

^{2*}Assistant Professor, Computer Science and Engineering Department, Agni College of Technology

ABSTRACT

In the world of online marketplaces, creating online auctions is an intriguing notion, and Ethereum auctions are among the most important e-business applications. By giving buyers and sellers a forum to trade goods using cryptocurrencies, these auctions increase the safety and security of the payment system. By supplying asset addresses for their products, registered users of the Ethereum Auction program can suggest new auctions, allowing other users to make bitcoin purchases or submit bids. Because it provides a dependable, simple, and quick way to buy and sell a variety of goods and services, this system is gaining popularity. The Ethereum Auction System is made to simplify and safeguard the payment process, giving users a hassle-free experience. The system is as simple to use as visiting a webpage, so even non-technical people may do so with ease. The ability to sell goods from the convenience of their homes is a major advantage of this application.

Key words: Cryptocurrency, Blockchain and Auction.



Monish V, Rohith B, and Sairam G, IV year students under the guidance of the faculty, Mrs. Prinslin L, have published a paper on **Ethereum Auction System using Blockchain** in the International Journal of Research Publication and Reviews, a SJIF indexed journal, vol. 4, no. 4, pp. 476-483, ISSN 2582-7421, April ,2023.

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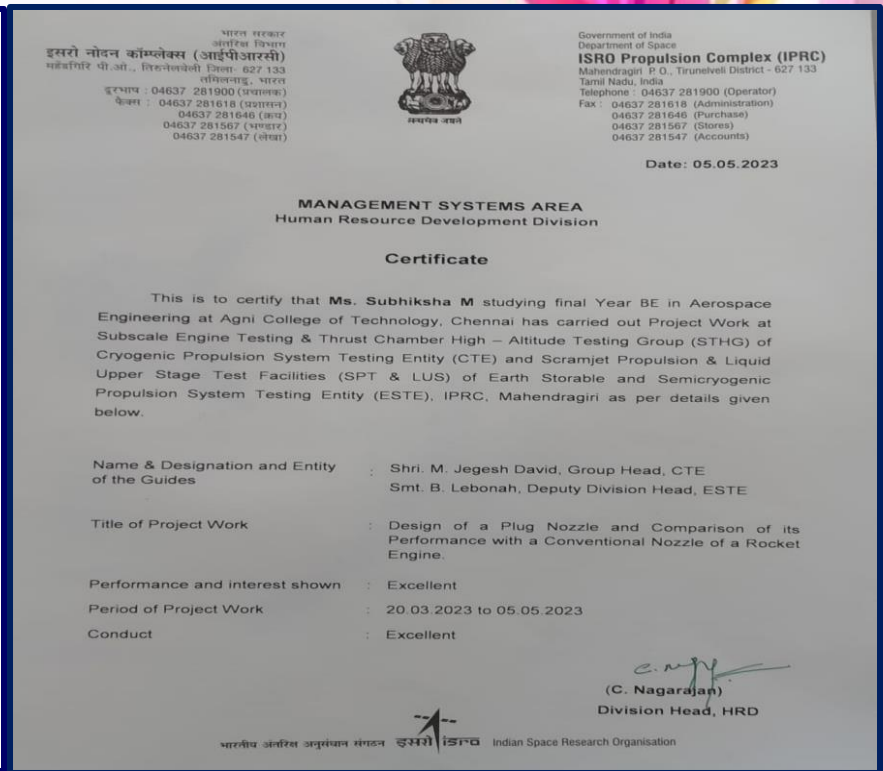
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STUDENT ACHIEVEMENT



M.Subhiksha, IV year student, from the Department of Aerospace Engineering has completed the Project Work titled **Design of a Plug Nozzle and Comparison of it's performance with a Conventional Nozzle of a Rocket Engine** at ISRO Propulsion Complex, Mahendragiri.

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FACULTY ACHIEVEMENT

Solid State Sciences 138 (2023) 107131

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Solid State Sciences

Journal homepage: www.elsevier.com/locate/ssscie

Effect of co-doping alkali metal ions $\text{Li}^+/\text{Na}^+/\text{K}^+$ on the photoluminescence enhancement properties of the near white light emitting $\text{LiSrVO}_4:\text{Dy}^{3+}$ phosphor along with the optical transition probabilities by Judd-Ofelt analysis for WLEDs application

V. Rathina Mala^a, P. Balakrishnan^b, S. Masilla Moses Kennedy^{a,*}

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ARTICLE INFO

Keywords:
Single phase
Vanadate phosphor
 Dy^{3+}
WLEDs
Thermal stability
Cool white

ABSTRACT

Cool white light emitting $\text{LiSr}_{1-x}\text{VO}_4:\text{Dy}^{3+}$ and $\text{LiSr}_{1-x}\text{VO}_4:\text{Dy}^{3+}, \text{yM}^+$ ($\text{M}^+ = \text{Li}^+/\text{Na}^+/\text{K}^+$) vanadate phosphors were synthesized by a conventional solid state reaction method. Powder X-ray Diffraction revealed the crystallinity and the phase formation. The morphology, agglomeration, elemental composition and the mapping of elements were analyzed using the Scanning Electron Microscopy and the EDAX mapping studies. The band gap and the refractive index of the prepared phosphors were determined through the diffuse reflectance spectroscopy. The photoluminescence excitation and the emission spectra were investigated. Under the 316 nm excitation, the luminescence spectrum showed emission peaks at 450 nm (blue), 570 nm (yellow) and 664 nm (red). The absorption spectrum was used to calculate the Judd-Ofelt parameters. These parameters were employed to investigate the different radiative properties. Influence of the charge compensators (alkali metal ions) on the PL properties were analyzed. Excellent thermal stability of 83% was obtained for this phosphor with the activation energy of 0.20 eV. The electric dipole transition influenced this phosphor to emit a broad yellow emission band. The Commission Internationale de l'Eclairage (CIE) coordinates were found from the emission spectrum, and its (x, y) values were (0.307, 0.361), with a correlated color temperature of 6568 K and a color purity of 8%.

Dr. P. Balakrishnan, Assistant Professor, Department of Science and Humanities (Physics) has published a research paper, "Effect of co-doping alkali metal ions $\text{Li}^+/\text{Na}^+/\text{K}^+$ on the photoluminescence enhancement properties of the near white light emitting $\text{LiSrVO}_4:\text{Dy}^{3+}$ phosphor along with the optical transition probabilities by Judd-Ofelt analysis for WLEDs application in Solid State Sciences," in Elsevier Publications with an impact factor of 3.752.

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FACULTY ACHIEVEMENT



Dr. P. Purushothaman Assistant Professor and Head, Department of Mechanical Engineering has reviewed two manuscripts for the journal WILEY titled **Environmental Progress & Sustainable Energy** on 02nd May 2023.

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FACULTY PARTICIPATION



Mrs . Prinslin L, Assistant Professor, Department of computer science and Engineering has attended **Five-day** international workshop on "**Application of Machine Learning and Artificial Intelligence in Research and Innovations**" held from 2nd-6th May 2023 through virtual mode at Regional college for Education Research and Technology, Jaipur.

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PROJECT REVIEW



For the students of IV year, the Department of Aerospace Engineering held a model project review. The project presentation was reviewed by the department head, the project coordinator, and their respective project guides.

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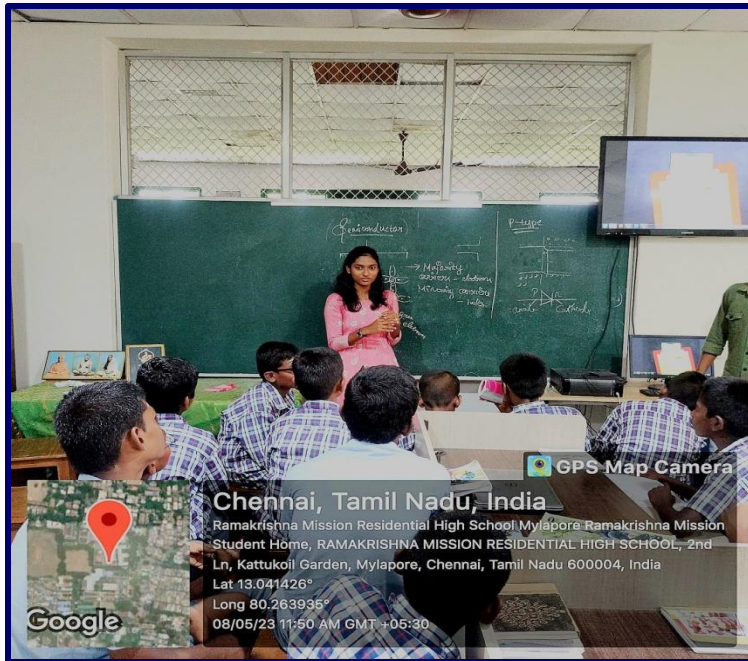


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STUDENT ACTIVITY



Let your learning lead to action

Nandhini Priya R, II year student, Department of Information Technology conducted a **class on sensors** for IX standard students at Ramakrishna mission polytechnic, Mylapore on 8th May 2023 as part of the **start-up BE UP activity** to introduce the exciting world of IoT and Robotics to school students.

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