

Arihant

सपत्नी Newsletter

A Touch of Excellence, Every Month

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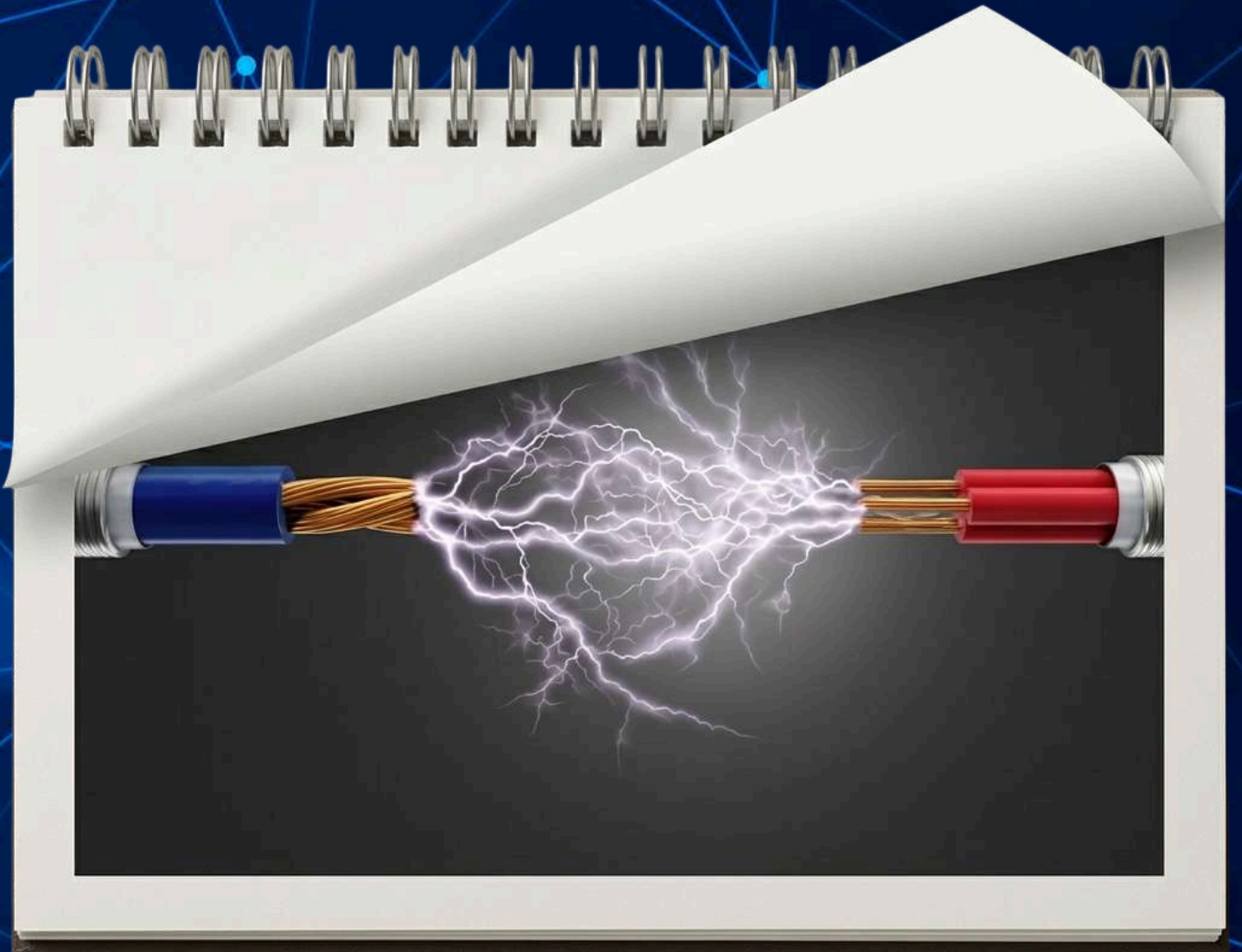
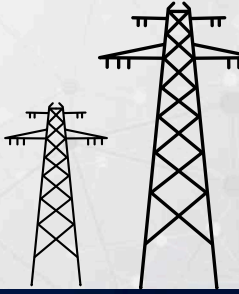
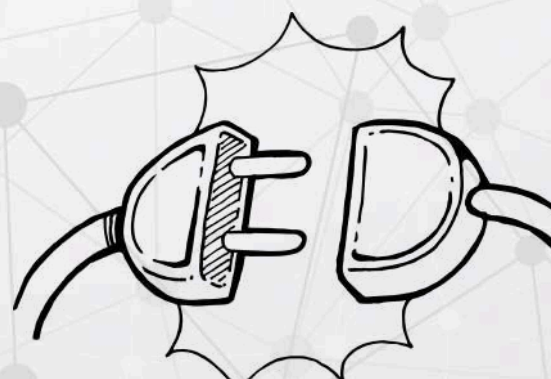


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MESSAGE OF THE MONTH

Steering Towards a Unified Vision: Embracing the New Financial Year with Purpose and Precision



Mr. Hemaang Jain

As we step into the new financial year with renewed energy, fresh opportunities and a collective responsibility, we strive to elevate Arihant to greater heights. Each new beginning is not merely a change in calendar, it is a strategic checkpoint where we realign our goals, refine our approaches and recommit ourselves to our organisational vision.

At Arihant, our strength lies in our people and the diversity of our functions. Whether we operate within Sales & Marketing, R&D, Manufacturing, or Backend Support Services, each department plays a pivotal role in shaping our success.

This year, our focus should not be just on having clear goals but on strategic execution, teamwork and measurable outcomes. Every team and individual must understand not only what we aim to achieve but also how their contribution directly impacts the larger organisational objectives. Strategy isn't just for boardrooms; its real value comes when it's executed on the ground with ownership, accountability, and teamwork.

Let us also remember that challenges are inevitable, but they bring new opportunities along with them. With the right mindset, disciplined execution, and a unified approach, we can convert every obstacle into a stepping stone towards success.

We firmly believe in the immense potential of every Arihantian. Your dedication, resilience and commitment have always been the driving force behind our achievements. We extend our best wishes to every team member for a successful and fulfilling financial year ahead. May this year bring new milestones, remarkable achievements, and continued growth for all of us.

With warm regards,
Mr. Hemaang Jain
Arihant Electrical

Featured Articles

Dive into this month's insightful articles, covering industry trends, innovations, and expert perspectives. Stay informed, stay inspired, and explore ideas that drive excellence at Arihant Electricals.

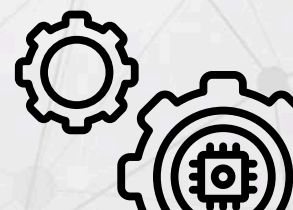
1

Advanced LED Technologies: Market Trends, Growth, Pros & Cons



Mr. Sandeep Tripathi
(Dept: Sales & Marketing)

The LED industry is undergoing a rapid transformation with the emergence of advanced technologies such as MicroLED, MiniLED, Chip-on-Board (COB), and smart IoT-enabled lighting systems. These innovations are significantly improving lighting efficiency, performance, and application flexibility across industries including automotive, infrastructure, and consumer electronics. MicroLED and MiniLED technologies are particularly gaining attention in premium display markets due to their superior brightness, enhanced contrast, and longer lifespan compared to traditional LEDs. However, their adoption is still limited due to high manufacturing costs and complex production processes.



COB (Chip-on-Board) LED technology is another major advancement, offering high lumen density, uniform light distribution, and better thermal performance. It is widely used in industrial lighting, street lighting, and large infrastructure projects, especially in developing countries like India where energy-efficient solutions are in high demand. Despite its advantages, COB technology faces challenges such as heat concentration in high-power applications and difficulty in repair or replacement.

The integration of smart lighting with IoT platforms is reshaping the LED ecosystem. Smart LED systems allow users to control lighting remotely through mobile apps and voice assistants, enabling automation, energy monitoring, and improved user convenience. This segment is witnessing rapid growth due to increasing adoption of smart homes, offices, and smart city initiatives. However, cybersecurity risks, higher installation costs, and dependency on internet connectivity remain key concerns.

From a market perspective, the global LED industry is growing steadily at an estimated CAGR of 8–12%, driven by government energy-efficiency regulations, infrastructure development, and increasing demand from the automotive sector. LED lighting is becoming a key component in electric vehicles (EVs), especially for adaptive headlights and interior smart lighting systems.

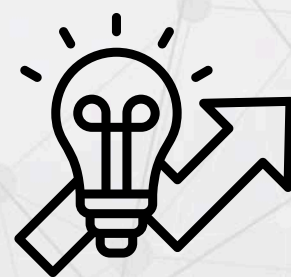
In conclusion, the LED industry is moving towards intelligent, energy-efficient, and digitally controlled solutions. While advanced technologies offer significant advantages such as long lifespan, reduced energy consumption, and smart integration, challenges related to cost, technical complexity, and security must be addressed. As innovation continues and economies of scale improve, LED technologies are expected to play a crucial role in the future of sustainable and smart infrastructure.

Key Advantages

- High energy efficiency
- Long operational life
- Smart control and automation
- Eco-friendly and sustainable

Key Challenges

- High initial investment
- Complex manufacturing processes
- Cybersecurity risks in smart systems
- Repair and maintenance limitations





The Rise of Cobots and Smart Cameras in Modern Industry



Mr. Jugendra Singh
(Dept: Automation)

Introduction

Automation is rapidly transforming industries worldwide, with collaborative robots (cobots) and smart cameras leading the change. Unlike traditional robots that work in isolation, cobots are designed to safely collaborate with humans. When combined with smart cameras, they enable greater flexibility, precision, and efficiency across manufacturing, logistics, healthcare, and more.

What Are Cobots?

Cobots are robots built to work alongside humans in shared spaces. Equipped with sensors and intelligent controls, they can detect human presence and operate safely.

Key Features

- Safety-first design with collision detection
- Easy programming (often no coding required)
- Flexible for multiple tasks
- Compact and cost-effective



Applications

- Assembly support
- Packaging and palletizing
- Machine tending
- Quality inspection

Cobots are especially beneficial for SMEs due to their ease of deployment and lower infrastructure needs.

What Are Smart Cameras?

Smart cameras are vision systems that capture and process images in real time, enabling instant decision-making without external systems.

Key Features

- Built-in image processing
- Real-time analysis
- AI and machine learning capabilities
- Compact and standalone

Applications

- Defect detection
- Barcode/QR code scanning
- Object tracking
- Measurement and alignment

The Power of Integration

Combining cobots with smart cameras creates intelligent, adaptive automation systems.

Key Benefits

1. Vision-Guided Automation

- Identify objects in any position
- Adjust movements dynamically
- Handle complex sorting tasks

2. Better Quality Control

- Real-time inspection reduces defects and waste



3. Greater Flexibility

- Quick reconfiguration of production lines
- Handles product variations easily

4. Enhanced Safety

- Cameras monitor workspace and human presence

Industry Use Cases

Manufacturing: Precision assembly and inspection

Logistics: Automated picking and sorting

Healthcare: Lab automation and diagnostics

Agriculture: Crop identification and selective harvesting

Challenges

- Initial investment
- Integration complexity
- Staff training
- Environmental factors affecting camera accuracy

Future Trends

- Increased use of AI and deep learning
- Better human-robot interaction
- Expansion beyond industrial use
- More affordable solutions

Conclusion

Cobots and smart cameras together are redefining automation. By combining human intelligence with robotic precision and machine vision, businesses can achieve higher productivity, improved quality, and safer operations. Their adoption is only set to grow in the coming years.

3

Smart Arc Detection for Proactive Fire Prevention



Mr. Shivam Srivastav
(Dept: Marketing)

Electrical fires in systems such as solar inverters, EV chargers, and energy storage systems (ESS) typically originate from **electrical arc faults**, which occur before flame, smoke, or heat. Conventional solutions detect fire only after initiation, increasing risk and potential damage.



To address this, Arihant offers a solution from its PowerCubeSemi product line.

PowerCubeSemi, a Korean semiconductor manufacturer, with strong expertise in advanced power semiconductor technologies (Si, SiC, and Ga₂O₃) and multiple patents in semiconductor design and manufacturing, has developed a first-of-its-kind Ga₂O₃-based arc prevention sensor.

This innovative solution is now part of **Arihant Solution's portfolio**, aimed at addressing critical fire risks in modern electrical systems.

Ga₂O₃ Arc Fire Prevention Sensor

- UVC Sensor for Fire Prevention Solutions
- Flash Sensing
- 100% Detectable
- No Detection errors
- Detected up to 2M (Distance) away
- Capable of detecting wavelengths below 254nm

World's first
Ga₂O₃
Arc-sensor

Registered Trademark
A K Sensor

Latent Phase Growing Phase Fully Development Phase Decay

Most fire deaths occur at this stage

Fire Prevention is POSSIBLE



1sec 1min 2min 3min 4min

◆ DUV Comparison of sensors with conventional products

	vacuum tube UV Tron sensor	DUV sensor
Maximum Voltage	500VDC	Less than 20V
Working Voltage	350VDC	3.3V
output Max. current	35uA	More 1μA
Radiation angle	±90	More ±45 degree
Response Time	2ms	Less than 1ms
Sensitivity Distance Max	50M	More 2Meter
Life time	10,000 hr	More than 10 years
illuminant	Reacts to natural light(UV~ Visible light band)	Arc waveband (DUV) (200~250nm)

• **Flame sensor(vacuum tube base UV tron)**



Range : 185~400nm,
Supply Voltage 325±25 V

➔

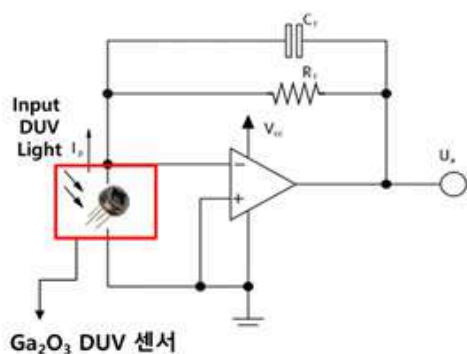


Range : 200~250nm

The images clearly illustrate the difference between conventional sensors and the DUV sensor, highlighting its effectiveness in early arc detection and its critical role in fire prevention.

By detecting arcs at their origin, it ensures **faster response, reduced risk, and improved system reliability**, marking a clear shift from **fire detection to fire prevention**.

Application circuit



Simple application



[Arc Sensing Monitoring System]
Wired and wireless available

Applications area

- ✓ Electrical Switchboard



- ✓ ESS(Energy Storage System)



- ✓ Electric Car Charger



- ✓ Automatic Control Panels



- ✓ Electric Vehicle Battery Modules (BMS)



- ✓ Battery Charge/Discharge Tester



4

Effective Use of MS Outlook



Mr. Ravinder Singh
(Dept: IT)

Introduction

Microsoft Outlook remains one of the most widely used email clients for professionals and organizations. While it offers powerful features for communication, scheduling, and task management, its performance often depends on how efficiently data is managed, especially the PST (Personal Storage Table) file. Over time, PST files can grow large, leading to slow performance, increased risk of corruption, and difficulty in managing emails.

Understanding PST File Growth

A PST file stores emails, attachments, contacts, and calendar data locally. Its size increases due to:

- Large email attachments
- Long-term storage of emails
- Accumulated deleted items
- Offline storage of entire mailboxes

Managing these factors is essential for maintaining Outlook performance.

1. Use Auto Archive for Efficient Email Management

Auto Archive is one of Outlook's most useful features for reducing PST size. It automatically moves older emails to a separate archive file.

- Archive emails older than 3–6 months
- Store archives in a separate PST file
- Schedule Auto Archive to run regularly

This ensures your primary PST file remains small and responsive.

2. Perform Regular Mailbox Clean-up

Outlook provides built-in clean-up tools that help identify and remove unnecessary data.

- Sort emails by size and delete large ones
- Empty Deleted Items and Junk folders
- Remove obsolete emails and folders

After clean-up, always compact the PST file to reclaim unused space.

3. Manage Attachments Wisely

Attachments are the biggest contributors to PST growth.

- Save attachments to local storage
- Remove attachments from emails after saving
- Avoid sending large files via email when possible

This significantly reduces storage consumption.

4. Organize Emails with Rules and Folders

Automation helps reduce inbox clutter and unnecessary data accumulation.

Examples:

- Move newsletters to a separate folder
- Automatically delete spam or low-priority emails
- Categorize emails by project or department

This keeps the mailbox structured and efficient.



5. Avoid Excessive PST Files

While multiple PST files can help organization, too many can:

- Slow down Outlook
- Increase the risk of corruption

Maintain one primary PST and one archive PST, organized logically (e.g., by year).

6. Eliminate Duplicate Emails

Duplicate emails often occur due to synchronization issues.

Solution:

- Use Outlook's "Clean Up" feature to remove redundant messages
- Regularly review folders for duplicates

7. Maintain Optimal PST Size

Although modern Outlook versions support large PST files, performance is best when:

- PST size remains below 10–20 GB

Keeping files within safe limits ensures stability and speed.

8. Optimize Outlook Performance

Additional steps to enhance efficiency:

- Disable unnecessary add-ins
- Use Search Folders instead of duplicating emails
- Regularly back up PST files

Conclusion

Efficient use of Microsoft Outlook is not just about managing emails, it is about maintaining system performance and data integrity. By adopting smart practices such as archiving, attachment management, and regular clean-up, users can significantly reduce PST file size and improve Outlook's responsiveness

EVENTS AND CONFERENCES

1. Beyond Colors, Stronger Bonds – Arihant Holi 2026

Holi at Arihant was a joyful celebration of colors, laughter, and togetherness. Moments like these strengthen team bonds and remind us that shared celebrations make us stronger as one team.



2. Arihant Electricals at the Forefront of Strategic Dialogue

Arihant Electricals at the Forefront of Strategic Dialogue

Arihant Electricals actively participated in the Strategic Dialogue organized by the Confederation of Indian Industry, focusing on Public-Private Partnerships in emerging sectors. The platform brought together key stakeholders from government bodies, industry leaders, and global institutions to discuss the future of India's high-impact sectors.

The discussions highlighted critical areas such as high-speed rail, defence, semiconductors, and the space sector, with a strong focus on actionable insights and collaborative growth. This engagement reinforces Arihant Electricals' commitment to contributing to India's evolving industrial and infrastructure landscape.



3. Nurturing Nature, Strengthening Tomorrow

On 21st March, Arihant Electricals marked the occasion with a tree plantation activity, reinforcing our commitment to sustainability and a greener future. This effort reflects our belief in creating long-term environmental impact while contributing to a healthier ecosystem.

Every tree planted is a step towards a more sustainable tomorrow, aligning with our vision of responsible growth and environmental stewardship.



4. From Campus to Career – A Journey of Opportunities at ABES

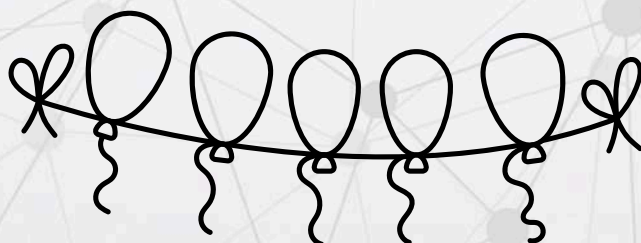
A glimpse into the campus placement journey at ABES, where ambition meets opportunity. These moments capture the dedication, preparation, and success of students stepping confidently into their professional careers. Proud to be part of a journey that shapes future leaders and achievers.



Upcoming April Birthdays

Wishing you joy, success, and a fantastic year ahead!

Hari Mandal	April 1, 2026
Chandra Prakash	April 13, 2026
Mukul Dev	April 13, 2026
Mohan Kumar	April 14, 2026
Abhimanyu Kumar	April 18, 2026
Navin Kumar Singh	April 19, 2026
Rajesh Kumar (Mkt)	April 19, 2026
Shiv Mangal Gupta	April 25, 2026



Welcome Aboard! (New Joinees - March 2026)

Excited to have new talents join the Arihant family as we grow together!



Prasad Devayya Bale
Manager Sales – Mumbai





THE CASE OF THE SILENT PANEL

One hectic afternoon, a control panel suddenly went completely silent.

No indicators, no response-nothing.

The team sprang into action.

Wiring was checked. Modules were inspected.

Discussions turned serious-"Could it be a major fault?"

After a while, someone quietly walked up, took a look... and pressed the reset button that had been sitting there all along.

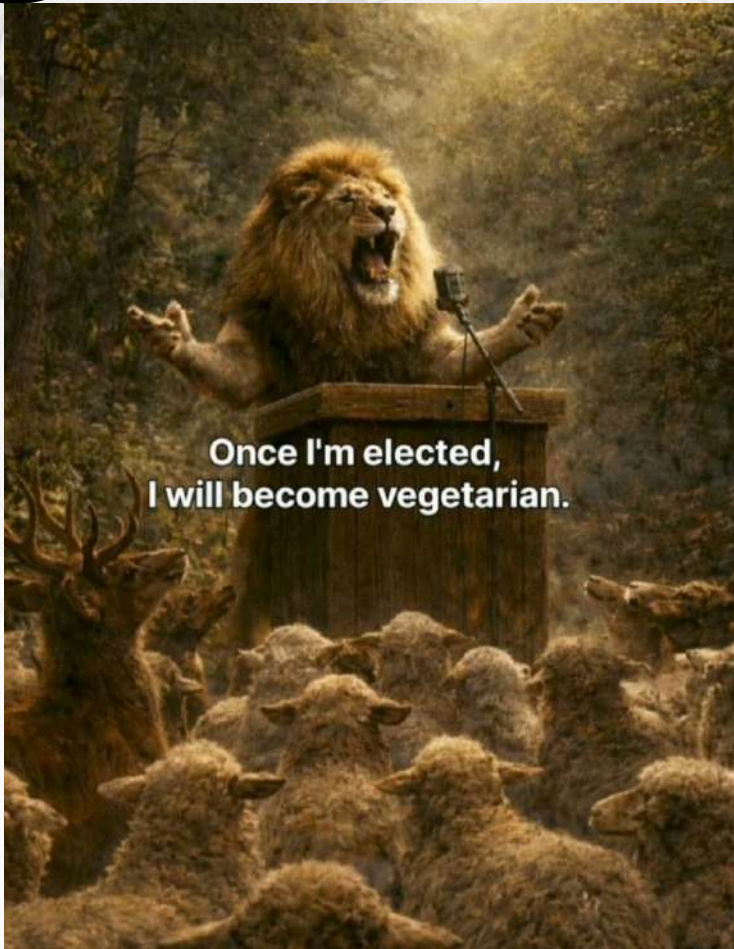
The panel came back to life instantly.

A moment of silence... followed by laughter across the room.

Since then, one rule echoes on the shop floor:

"Before solving the complex, don't forget to check the obvious."





FUN & BRAIN TEASERS CORNER

Crossword Puzzle

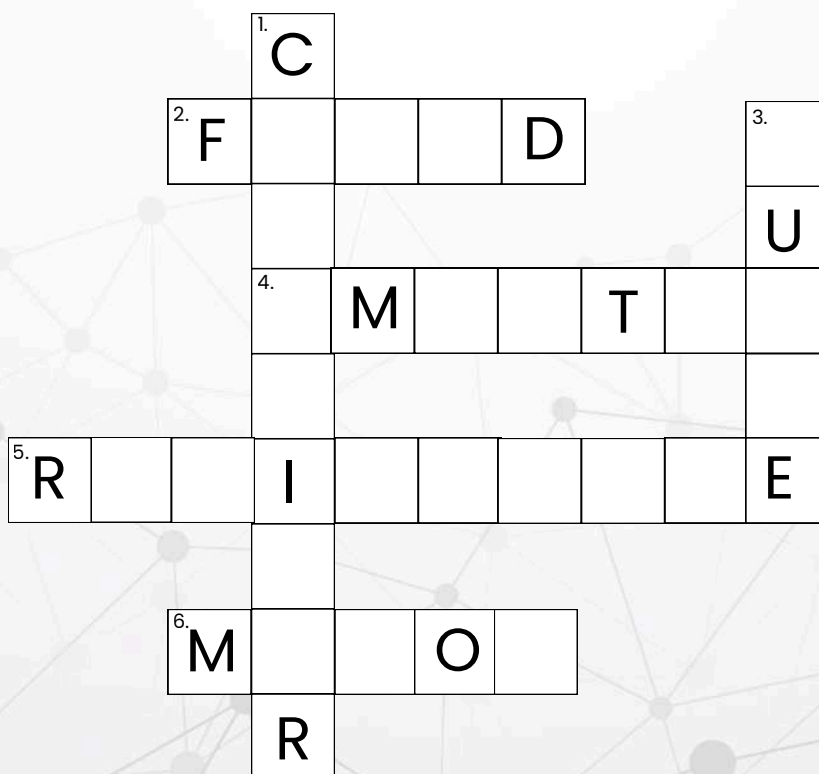
This month's Crossword Puzzle is designed to challenge your knowledge of electrical systems, engineering basics, and the industries Arihant Electricals proudly serves. Put on your thinking caps, solve the clues, and share your answers with the HR Head.

The first three correct entries will be featured in our March edition.

Don't miss this chance to test your brain and enjoy some friendly competition!

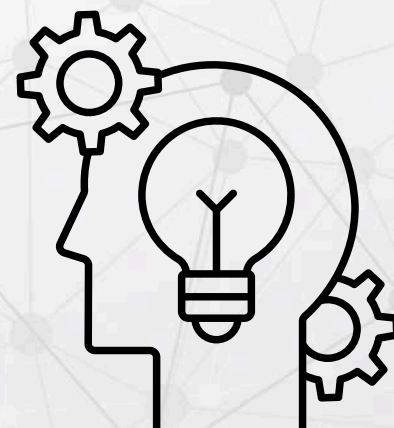
ACROSS

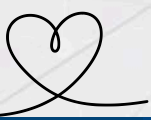
2. Unit of electrical capacitance (5 letters)
4. Instrument used to measure electric current (7 letters)
5. Property of a material to oppose the flow of current (10 letters)
6. Device that converts electrical energy into mechanical energy (5 letters)



DOWN

1. Device used to store electrical charge (9 letters)
3. Sudden increase in voltage in a circuit (5 letters)







LITTLE CREATORS' CORNER

Small hands. Big imagination. Unlimited fun!





This corner is for our Employee's Kids **happy playground of colours and ideas**, where anything you imagine can come to life! Just fun, creativity and your own special touch. So grab your crayons or colours and show us your world, the way you see it!

-  **Parents can help share the artwork with the HR team.**
-  **Some super-cool creations will be featured in the next Arihant Newsletter!**

Ready... Set...Create!

Colour & Create: The Brave Soldier Scene

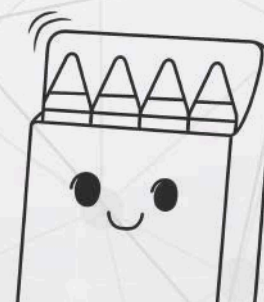
Kids are invited to colour their very own **Brave Soldier Scene**, where our heroes stand strong to protect the nation. From tanks and helicopters to uniforms and equipment, this scene is ready for your creative touch!

-  Colour the soldier's uniform and helmet
-  Design the helicopter and jet your way
-  Add details to the army vehicles
-  Bring the surroundings to life with trees, sky, and ground

Bonus Challenge:

Add something new to the scene — maybe a flag, a camp setup, or even your own defence vehicle!

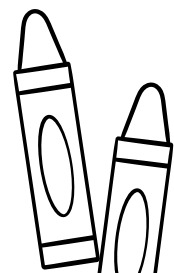
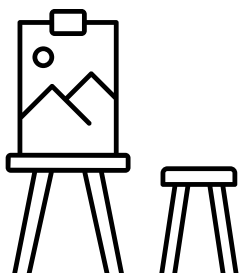
Ready... Set... Colour!



CHILD NAME & AGE

EMPLOYEE NAME

DEPARTMENT



Guess the Object!

Can you crack the clues? Put on your thinking cap and guess what these objects are!

1. I have keys but no locks, I have space but no room, You can enter, but you can't go outside.

(Hint: Used with computers)

2. I go up and down, But never move, You walk on me, In different grooves.

(Hint: Found in buildings)

3. I have hands but can't clap, I tell you the time, Tick-tock all day, In a steady rhyme.

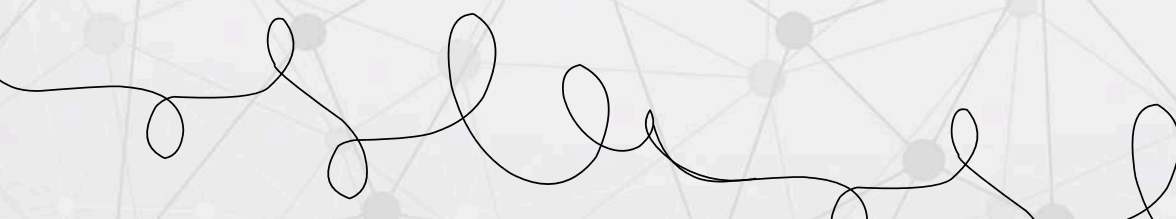
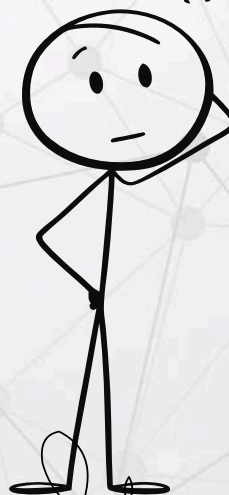
(Hint: Found on walls or wrists)

4. I'm full of pages, But I'm not a tree, I tell you stories, Come read with me!

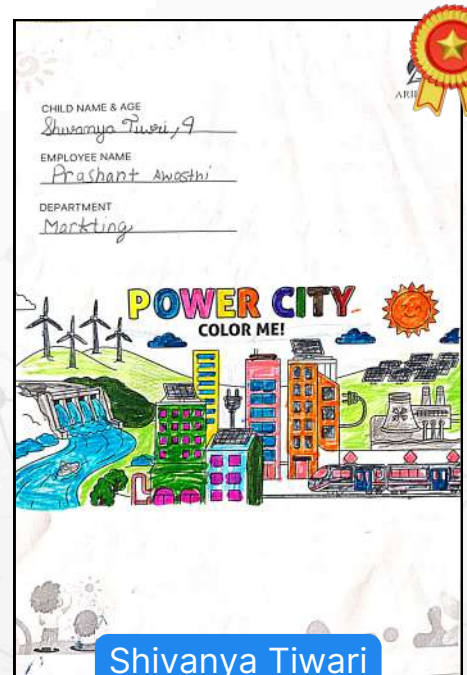
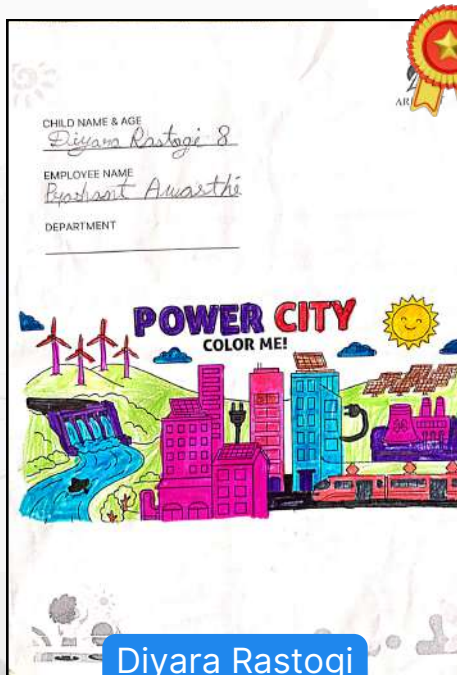
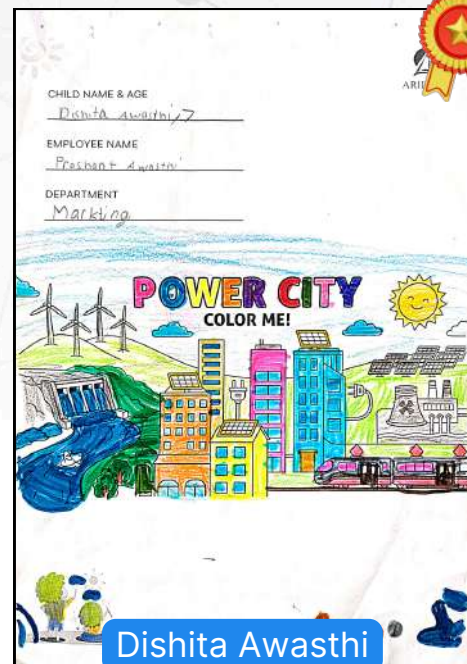
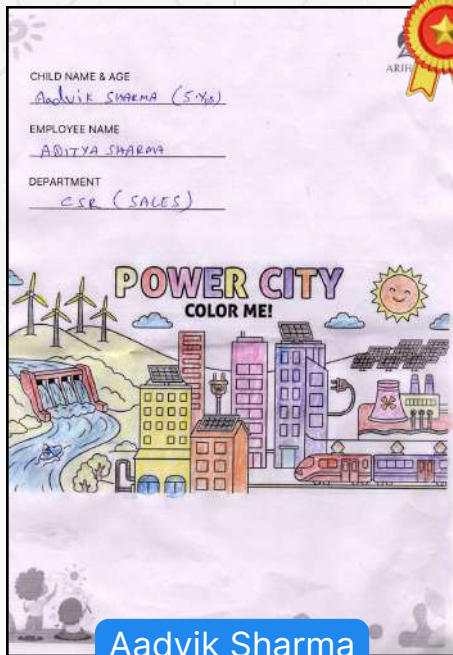
(Hint: You study from me)

5. I speak without a mouth and hear without ears. I have no body, but I come alive with wind.

(Hint: You might hear me in the mountains)



Showcasing Our Employee's Young Stars



CELEBRATING OUR JOURNEY

12th April marks Arihant Electricals' Foundation Day

A reflection of our journey built on innovation, commitment, and consistent growth.

From our early beginnings to becoming a trusted name in the industry, every milestone has been shaped by the dedication of our team and the trust of our partners. This day stands as a reminder of how far we've come and the strong foundation we continue to build on.

HAPPY FOUNDATION DAY

to the entire Arihant family, the driving force behind every achievement and milestone.



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We solicit your valuable suggestions and feedback to enhance this newsletter for future editions. You can share your thoughts and suggestions by writing to us at: hrd@arihantelectricals.com

