

RUCHA KALEIDOSCOPE

Rucha Engineers Pvt Ltd

January 2022 Issue # 30



25 YEARS
AND STILL
GROWING

www.rucha.co.in



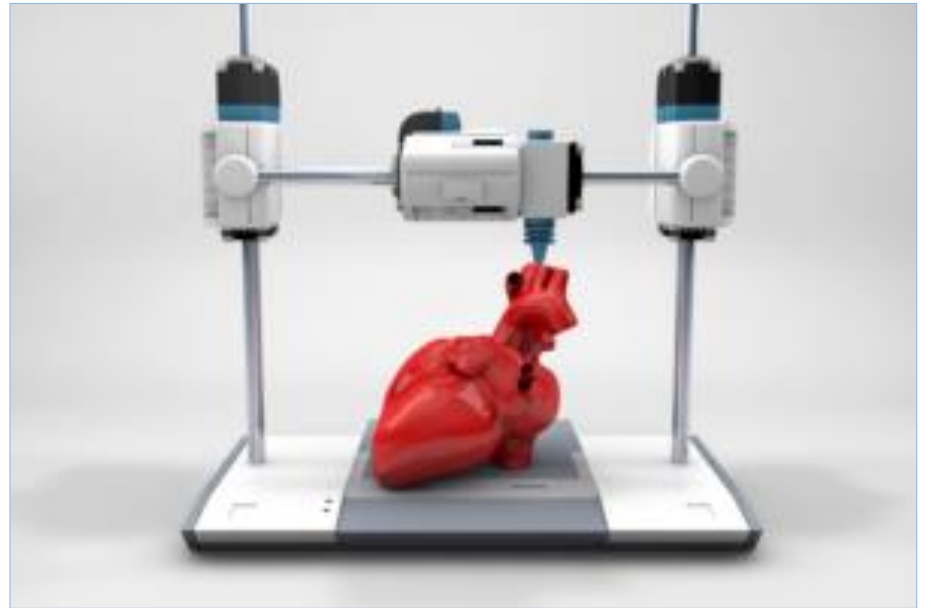


RUCHA FAMILY TO CELEBRATE 25 YEARS !



TOP APPLICATIONS OF 3D PRINTING

Welcome back! From the last blog to this, we are sure millions of new items must have been produced using 3D Printing, and scores of new ways must have been discovered for utilizing additive manufacturing. Such is the pace of adoption of 3D Printing.



Among the hundreds of possible applications, today, we shall look at the most impactful and interesting ones. Here we go!

Prototyping

Faster. Easier. Inexpensive. When designing new products, don't you wish the process of making prototypes was fast, easy, and inexpensive. That's precisely how 3D Printing allows it to be.

Unlike traditional manufacturing, which is expensive and takes up a lot of time and effort to produce a prototype of the correct dimensions, 3D Printing can produce highly complex geometries in a short time – reducing the turnaround from a few weeks to a few days. This also allows more iterations to be made, thus, improving the overall design process.

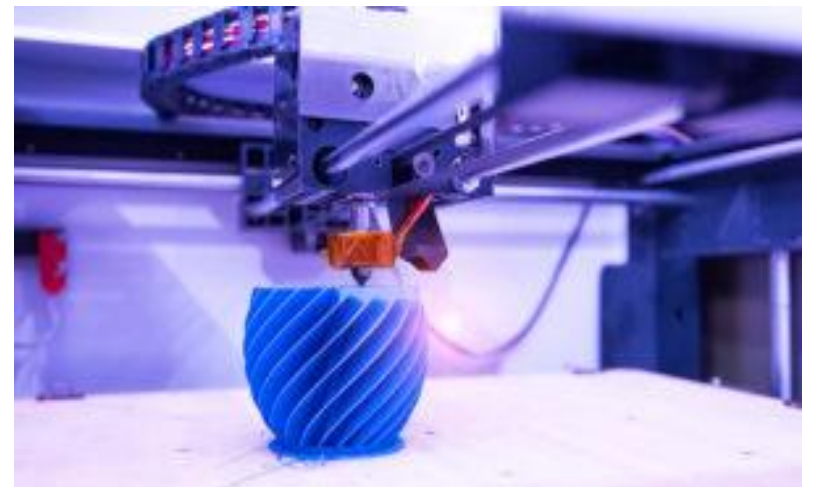
Robotics : Robotics is continuously evolving to merge advanced electronics with complex mechanical structures – which can now be easily produced with 3D Printing. If the same is to be produced using traditional methods, costs turn out to be relatively high. The time consumed in reprocessing is saved, too. Thus, making the production process quicker.

TOP APPLICATIONS OF 3D PRINTING

Robotics faces another challenge – the weight of the parts. Complex shapes made through traditional methods can be very heavy. On the other hand, 3D Printed objects can be lighter and more robust. The following advantages are reduced assembly time, reduced breakdown of robotic parts, and improved efficiency in running tests on robot performance.

Medicine and medical equipment

Biomedical implants and medical devices such as hearing aids, prosthetic limbs, etc., are some of the most critical applications of 3D Printing. Especially with orthopedic implants, 3D Printing's



ability to produce porous surfaces is highly beneficial as it helps the implant integrate easily with the patient's bones. 3D Printing also allows the medical devices to be custom-made to one's physical characteristics, unlike the alternatives already in practice.

Drug pills produced using 3D Printing can also be very porous, enabling higher dosages in a single tablet that can be dissolved quickly and digested easily.

Education

The 3D printing technology is a true asset to education as the process allows complex ideas to live in the real world. 3D Printing is the solution to give life to our study material and enable everyone to manipulate complex ideas physically.

It allows students to push their experiments and projects further and print mechanical parts, architectural mock-ups, and prototypes. Online 3D Printing gives students studying engineering, architecture, design, etc., the chance to quickly bring



TECHNICAL BLOGS



TOP APPLICATIONS OF 3D PRINTING

their project to life in conditions simulating the professional life. This helps students improve their critical thinking due to a practical approach to the subject.

3D printing bridges the gap between ideas on a page or screen and three-dimensional representations.

Chemical Industry

The chemical industry can benefit mainly from 3D Printing, primarily in Research and Development. When developing some new formula or a chemical structure, scientists can bring the microscopic images to life by 3D Printing them. They can look at it closely from all angles and derive their conclusions easily.

Conclusion

Looking at just five areas of applications of 3D Printing leaves us amazed at their utility and impact. It also makes us guess what else could be made through 3D Printing to improve the existing world. We shall keep a tab on the upcoming news from the 3D Printing world and be sure to share it with you.



SPECIAL PROJECTS, EVENTS & AUDITS



RUCHA YANTRA

Silicon India awarded Rucha Yantra with the prestigious title of “**Company of the Year 2021**”, Material Handling Solutions! In a special interview with our Founder, Rohit Dashrathi Sir, they also shared Yantra’s incredible growth journey.

MATERIAL HANDLING SOLUTION

siliconindia
COMPANY
OF THE YEAR - 2021

Rucha Yantra

A ONE STOP SHOP OFFERING FLEXIBLE MATERIAL HANDLING SOLUTIONS



**ROHIT DASHRATHI,
FOUNDER AND DIRECTOR,
RUCHA YANTRA**

Rohit Dashrathi is one of the new generation entrepreneurs in the Indian industry. He is the Founder and Director of Rucha Yantra, a robotics and automation company. He completed his bachelors in MEchanical engineering in the year 2011. He also holds double majors and has done Masters in the field of Mechatronics, Robotics & Automation Engineering from the prestigious Carnegie Mellon University and from the prestigious Michigan Technological University.

As automation becomes the new normal for manufacturing and warehouse operations in the age of Industry 4.0, the options to help you get there are rapidly evolving. Technologies like Autonomous Guided Vehicles (AGVs) and Autonomous Mobile Robots

(AMRs) are advancing while costs continue to decrease, making these options more accessible for companies of all sizes. Established in 2016, Rucha Yantra is a leading Indian company which provides robotics solutions to bridge the gaps in material handling industry. Today, while automation is the need of the hour, robotics is still a complex subject. Rucha Yantra was set up with the mission to not only making robotics simpler but also to design robots that are user friendly, minimalist and have all the essential features that are required.



“At Yantra, our aim is to develop effective, reliable, and affordable solutions for challenges that our customers face on a daily basis. Hence, with our innovative team of engineers, we specialize in building Automated Guided Vehicles (AGVs) and Autonomous Mobile Robots (AMRs) that can handle floor transportation of material from one point to another without human intervention. We also specialize in customised Special Purpose Machines (SPMs) and Robotic Integration & Automation services. While AGVs are not new, we have added adaptability and came up with a new series tugger and unit load type AGVs (RAGHAV), low height tunnel type AGVs (VAMEN) and human guided load carriers (SAEVK). We always strive hard to solve complex dynamic problems in load carriage



SPECIAL PROJECTS, EVENTS & AUDITS



Burlyfield is growing and how!! We have added another feather in our cap in January. All Burlyfield natural and healthy products are now present on India's leading online store – “**FLIPKART**”. Just click on the link below to explore and order.

<https://www.flipkart.com/search?q=burlyfield%20in%20food&otracker=search&otracker1=search&marketplace=FLIPKART&as-show=on&as=off>

Don't forget to tell this happy news to your friends and family all over India.

Flours | Culinary Powders

Wellness Powders | Ready Mixes



As you all know, winter is the season of common infections like cough & cold and you need immunity to fight them. That is why we are offering 15% OFF on all the wellness products on **Amazon** which includes Ready Kadha, Turmeric Kadha, Moringa Powder, Lemongrass Powder, Tulsi Powder, Amla Powder and Ginger Powder. All these wellness products are packed with healthy nutrients to improve immunity and promote health. Click on the link below to buy!

https://www.amazon.in/s?k=burlyfield&crid=2GCMV57F6FKFF&srefix=burlyfield%2Caps%2C116&ref=nb_sb_noss_1



SPECIAL PROJECTS, EVENTS & AUDITS



73rd REPUBLIC DAY CELEBRATION AT ALL PLANTS

This year we have celebrated 73rd Republic day across the group on 26th January 2022, the day when constitution of India came to effect. On this auspicious occasion, Ruchaites bowed head before the memories of India's freedom fighters & great leaders.

This is the occasion to reaffirm our commitment to unity in diversity, fraternity and equality among all citizens of our proud nation.



PLANT-I



PLANT-II



PLANT-III



PLANT-IV



PLANT-VI



PLANT-VII



PLANT-IX



PLANT-X



BURLYFIELD



SPECIAL PROJECTS, EVENTS & AUDITS



MAKAR SANKRANTI CELEBRATION

Makar Sankranti festival is observed on 14th January every year and known by various names in India such as Uttarayan in Gujrat, Lohri in north India, Bhogali Bihu in Assam, Pongal in Tamil Nadu, Poush Sangkranti in West Bengal, Tila Sakrait in Mithila, Khichdi in Uttar Pradesh and Shishur Saenkraat in Kashmir Valley. Our employees have also enjoyed Makar Sankranti with various traditional sports event activities.





KNOWLEDGE SHARING



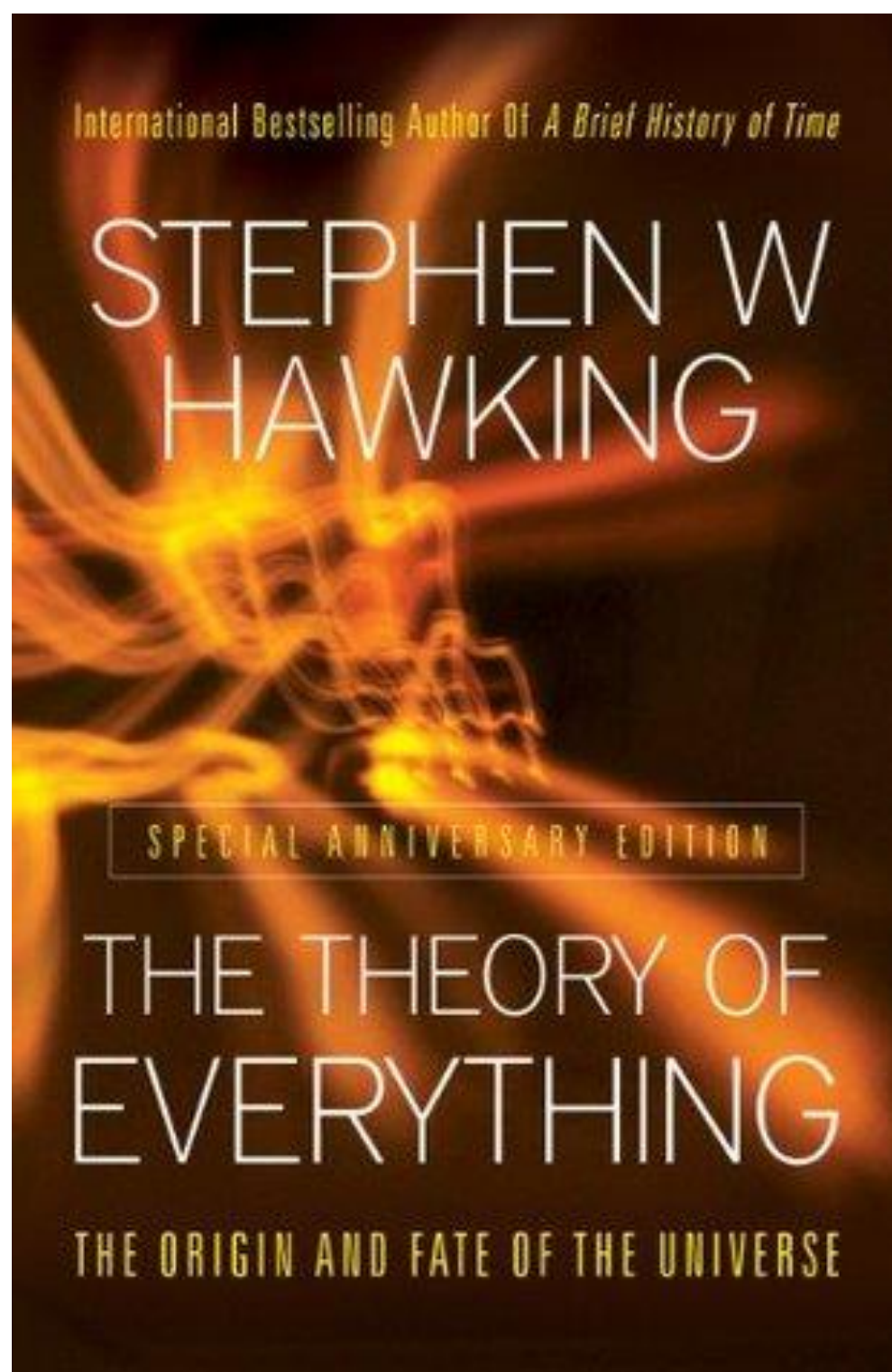
POPULAR BOOKS AVAILABLE AT OUR LIBRARY...!! SUGGESTED TO READ

The Theory of Everything by Stephen Hawking is a series of seven lectures.

This book presents the most complex theories about black holes, expanded the universe, the origin of everything, the direction of time, and the big bang.

According to the author, the laws of physics do not distinguish between the past and the future. In other words, life would be just the same for the inhabitants of another planet who view our mirror images and who were made of antimatter.

The book is boon for physics lovers. The author didn't include complicated mathematical equations. He kept the language simple and easily understandable. The author mixes science with philosophy. It exhibits a subtle sense of humour in the book. It's a short read. Stephen Hawking poses interesting questions about God.



Happy reading.....!! Explore many such worthy books of your choice through our Library Management System, available on Rucha portal.

https://www.rucha.co.in/portal/index.php/LMS/LMS_cntr/user_DashBoard

10 Principles of KAIZEN

You can always improve yourself. Whether it is learning something new or perfecting a skill you already have, there is room for improvement in everyone's life.

See how each principle can be applied to one's PERSONAL LIFE.

1 Scope for Improvement

There is an area for improvement in everyone's life, no matter how successful they are.

2 Eliminate Old Practices

Let go of former habits, even if they seemed to have some benefit to you at the time.

3 Be Proactive

Stop hesitating because of possible hurdles that you foresee, and move forward toward your goal.

4 Don't Assume New Methods Will Work

Just because something worked for someone else does not mean that it will necessarily work for you.

5 Make Corrections

Recognize the areas in your life that can use improvement, and make relevant corrections to help you progress.

6 Speak Up

Encourage your friends and family to make suggestions if they see things that you could work on.

7 Crowdsource

Learn from other people and get some new ideas on things you can add to your routine to create continuous improvement.

8 Practice the "Five Why" Method

By continuing to ask yourself "why?" you are likely to find the real reason behind a problem.

9 Be Economical

Consider specific things you can save money on each week, and stop buying them.

10 Don't Stop

Never consider yourself to be finished. Improvement has no limits, and can be continued on an infinite level.

Try to do something just a little bit better each day in order to make a large impact in the long run.

DEVELOPGOODHABITS.COM



EMPLOYEE HEALTH CHECKUP CONDUCTED

A healthy staff is always capable of delivering better results and investing in them is more beneficial in the long run. Drop in absenteeism i.e. reduces employees sick leaves. Greater employee satisfaction & positive employee morale in the workplace. Improved morale and loyalty amongst staff. Increase in productivity.

Similarly like every year we have organized periodical health check up for our valued employees for their healthy life. Health is wealth ..Take care !!





EMPLOYEE ENGAGEMENT



‘MAGIC SATURDAY’

In today's busy working life one needs a stress buster break too. While providing such stress busters, we look for tangible organizational benefits as well as team building, health awareness, knowledge gain, and much more. This month in all Plants Magic Saturday was conducted on last Saturday of Jan month.

Most of employee have participated in company organized various games and activities to improvise their 'moral & productivity at work' too.





CORPORATE SOCIAL RESPONSIBILITY



BLOOD DONATION CAMP CONDUCTED AT ALL PLANTS

Donating blood may reduce the risk of heart disease for men. A single blood donation can save Upto three lives. Donating blood may not only benefit the person who received the blood cells but may also improve the health of the donor.

From Jan 7th to 29th 2022 we have organized Blood Donation Camps in all plants. Our employees have participated voluntarily.



Plant I : 22th Jan 22
Total Donation : 40



Plant III : 15th Jan 22
Total Donation: 44



Plant IV : 12th Jan 21
Total Donation : 34



Plant V : 22th Jan 22
Total Donation : 40



Plant VI : 14th Jan 22
Total Donations: 24



Plant VII : 15th Jan 22
Total Donations: 60



Plant IX : 29th Jan 22
Total Donations: 37

As a group total 279 donors were part of this to support this noble cause

We salute to all the donors & organizer too ... Keep up the good work !!



MOTIVATION & PERSONALITY DEVELOPMENT



MOTIVATIONAL STORY : THE ELEPHANT ROPE

Story of The Elephant Rope

Failure

is part of learning;
we should never
give up on the
struggle in life



As a man was passing the elephants, he suddenly stopped, confused by the fact that these huge creatures were being held by only a small rope tied to their front leg. No chains, no cages. It was obvious that the elephants could, at anytime, break away from their bonds but for some reason, they did not.

He saw a trainer nearby and asked why these animals just stood there and made no attempt to get away. "Well," trainer said, "when they are very young and much smaller we use the same size rope to tie them and, at that age, it's enough to hold them. As they grow up, they are conditioned to believe they cannot break away. They believe the rope can still hold them, so they never try to break free."

The man was amazed. These animals could at any time break free from their bonds but because they believed they couldn't, they were stuck right where they were.

Like the elephants, how many of us go through life hanging onto a belief that we cannot do something, simply because we failed at it once before?

Moral:

Failure is part of learning; we should never give up the struggle in life.



RESPECT

Honor for
Dignity &
Sanctity

URGE

To strive for
Innovation and
Excellence

CONFIDENCE

To welcome
and Embrace
Change

HONESTY

Stand for
Truth and
Transparency

AMBITION

Strong Drive
for Growth



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Building Bright Future
with **Green Commitment**