



St. John College of Engineering and Management

Department of Mechanical Engineering

Report of training session on 3D Printing

9th August 2022



Training Program on “**Installation and demonstration of 3D printing - Fused Deposition Modelling (FDM)**” was conducted by **Mr. Prahalad Solanki** from Vektor3D Systems LLP, Chembur, Mumbai on 9th August 2022 in CNC and 3D printing lab, SJCEM, B-wing ground floor.

Following topics were covered in session: -

1. Installation and assembly of FDM 3D Printer (Flashforge creator pro)
2. Demonstration of part printing on 3D printer
3. Use of software in processing parts to be fabricated.

Following staff members attended the training session

1. Mr. Vivek Narnaware
2. Mr. Rakesh Shinde
3. Mr. Sangam Rane
4. Mr. Vinod Surange
5. Dr. Kishor Rambhad
6. Mr. Rajesh Bisane
7. Mr. Ambepasad Kushwaha
8. Mr. Gyanchand Yadav
9. Mr. Sandip Sankhe
10. Mr. Alpesh Naik

Faculty coordinators: Dr. Kishor Rambhad and Mr. Vinod Surange




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& Management, Palghar

Profile of Expert Faculty:

Contact

www.linkedin.com/in/prahaladsolanki (LinkedIn)

Top Skills

Microsoft Office
AutoCAD
Matlab

Languages

Marathi
Hindi
English
Marwari
Punjabi

Certifications

MIT-BOTS IIT Initiative Autonomous Robotics

Publications

3D Printers: Future Basic Need

Prahalad Solanki

Founder at Vektor3D Systems LLP
Mumbai, Maharashtra, India

Summary

A dynamic professional with total about 7 Years of experience into manufacturing of 3D printer along with sales and it's services.

Founded Vektor3D Systems LLP, whose Moto is to promote make in India products by cultivating in-house production of various 3d printer technology Systems.

Current product road map includes industrial grade FFF PEEK 3d printer, extra large build volume and cost effective resin 3d printers, WAAM (wire arc additive manufacturing) 3d printers and metal 3d printing Systems.

Major focusing area includes research & development, decoding complex hardware & software Systems and working on upcoming future technologies such as IoT, Robotics and advance manufacturing techniques like 3d printing.

In the process of being a catalyst for implementation of Industry 4.0 into the Indian Market.

We are currently looking for angel inventors or seed funders to help us in joining the hands in the next industrial revolution.

Expertise:

- Product development.
- Quality Control standards
- Marketing and channel development
- Machine maintenance and troubleshooting.
- Decoding complex hardware and software systems.
- Enhancing products quality and optimising for maximum efficiency.
- Working on developing Filament Extruder machine and Research on developing new series of 3D printing consumables.
- Research with various 3d printer consumables such as filaments, Nozzles, PCB's, Circuits testing & their properties and implementing new changes to design or hardware parts.




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- Conducting Seminars and Providing Product Training to distributors in or on site.

Reach to us at
info@vektor3ds.com
www.vektor3ds.com
+91-9082020416

Experience

Vektor3D Systems LLP
Founder
April 2020 - Present (2 years 8 months)
Mumbai, Maharashtra

3Idea Technology
Technical Head
July 2016 - March 2020 (3 years 9 months)
Mumbai, Maharashtra, India

Working with Leading 3D Printer Desktop Segment giant XYZ 3D Printing(Taiwan), providing technical services and participating in research and development of FDM, SLA & DLP 3D Printers.

J Group Robotics
Quality Control Manager
September 2014 - June 2016 (1 year 10 months)
Mumbai

1. Testing of all Electronics & Mechanical Parts Before sending it for production and Providing Quality Certification for the Parts & Machine.
2. Calibration using Repetier 1.6.1 and Calibration of other Mechanical Parts.
3. G code Generation using Simplify3D & troubleshooting on Gcode along with giving technical support on call, going for service.
4. 3D printer with Quality Checking & Control of all the mechanical as well as electronic assembly parts along with Doing R&D on developing new 3D printers.
5. Product testing & Quality Inspection.
6. Material Safety Datasheet (MSDS) Report Generation
7. 3D Scanning of body and mechanical parts.

optech engineering pvt. ltd.




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Glimpse of training session :



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St. John College of Engineering and Management
Department of Mechanical Engineering Report
of training session on DLP 3D Printing



01st September 2022

Training Program on “**Installation and demonstration of 3D printing - DLP**” was conducted by **Mr. Prahalad Solanki** from Vektor3D Systems LLP, Chembur, Mumbai on 01st September 2022 in CNC and 3D printing lab, SJCEM, B-wing ground floor.

Following topics were covered in session: -

1. Installation and assembly of DLP 3D Printer
2. Demonstration of part printing on DLP 3D printer
3. Use of software in processing parts to be fabricated.

Following staff members attended the training session

1. Mr. Vivek Narnaware
2. Mr. Rakesh Shinde
3. Mr. Sangam Rane
4. Mr. Vinod Surange
5. Dr. Kishor Rambhad
6. Mr. Rajesh Bisane
7. Mr. Ambepasad Kushwaha
8. Mr. Gyanchand Yadav
9. Mr. Sandip Sankhe
10. Mr. Alpesh Naik

Faculty coordinators: Dr. Kishor Rambhad and

Mr. Vinod Surange



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Glimpse of training session :




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REPORT ON

Workshop on “*Citation and Reference management using Mendeley*”

Workshop on **Citation and Reference management using Mendeley** was organised for B.E. Final Year Students of Mechanical Engineering Department of St. John College of Engineering and Management, Palghar.

Resource person – Dr. Upendra Maurya, Assistant Professor, Mechanical Engineering, SJCEM, Palghar

Date of Workshop- 16-03-2023

No. Of Student attended – 40

During the workshop Dr. Upendra Maurya gave the detail information of different components of the reference management and available tools. He also explained each components in detail. This workshop will help to prepare student a research paper and project report on their final year project.




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Introduction to Mendeley

By
Dr. Upendra Maurya




Head of Department
Mechanical Engineering
St. John College of Engineering
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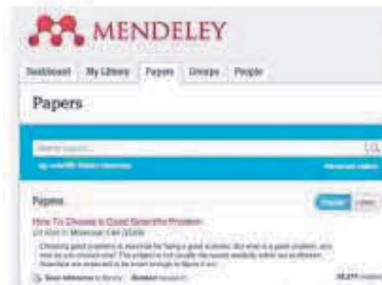


Adding New Research

Mendeley Web Importer



Mendeley Research Catalog



Adding Documents

Select a file or folder to add from your computer

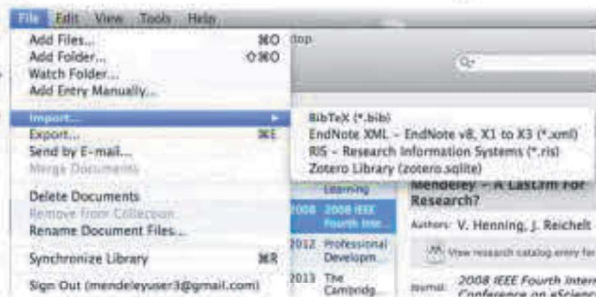
Watch a folder

Add references manually

You can also:

- Use the Web Importer to add from online databases
- Find new articles in the Mendeley Web Catalog

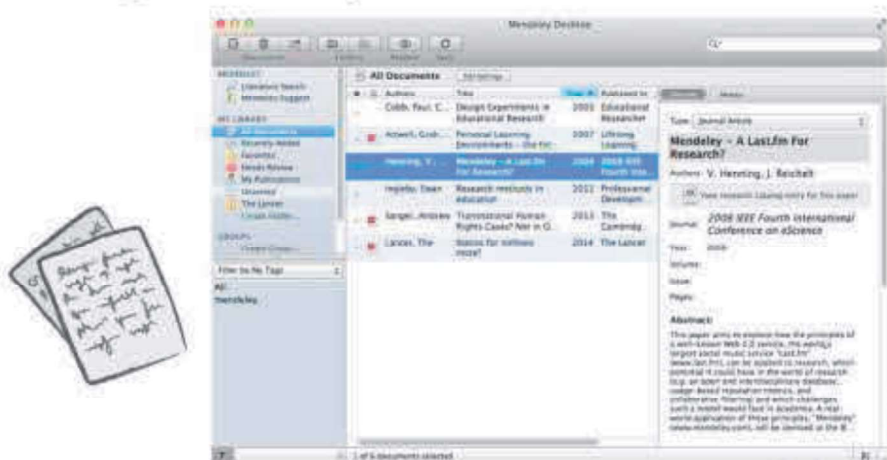
Import your references from
BibTeX, Endnote, RIS or Zotero



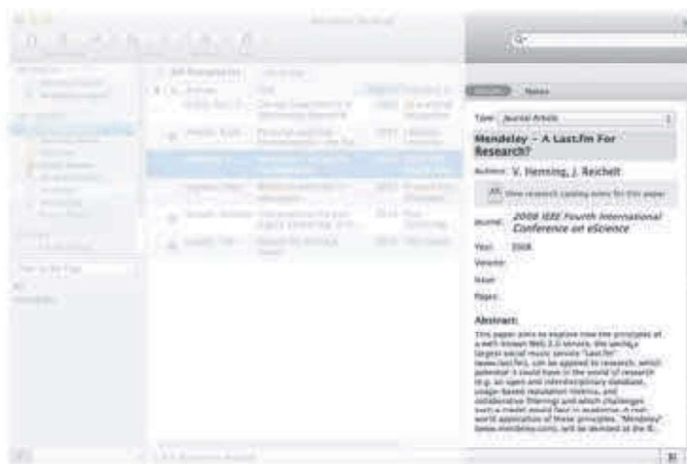
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Drag and Drop



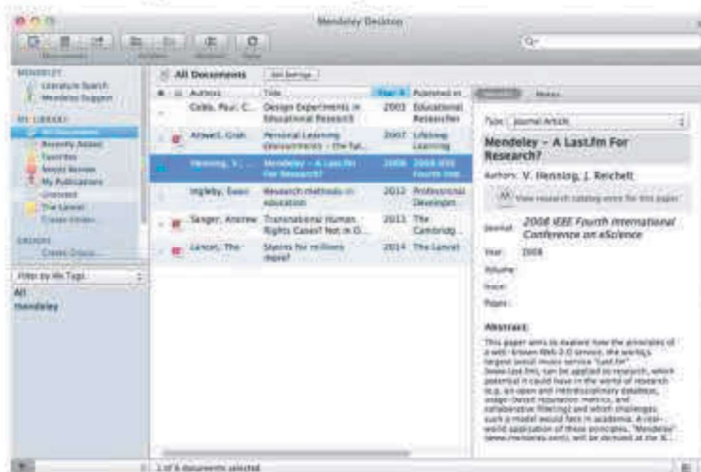
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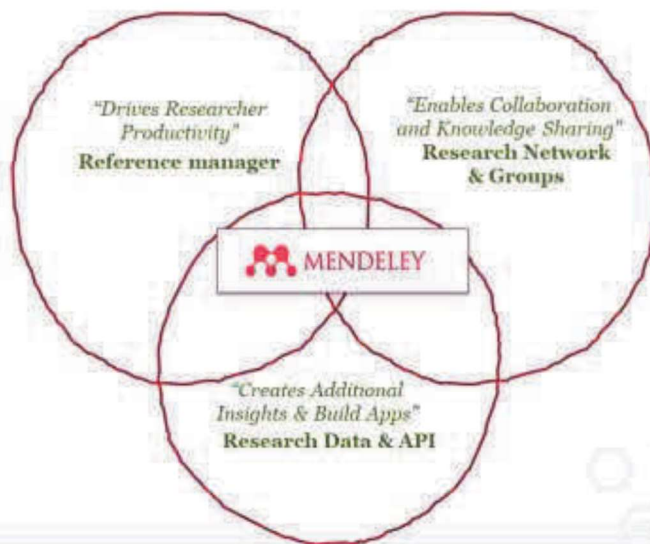
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Mendeley Desktop overview



Mendeley's Three Key Values




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What is Mendeley?



...and an **academic collaboration network** with 4 Million users to connect like-minded researchers & discover research trends and statistics.

Mendeley is a **reference manager** allowing you to manage, read, share, annotate and cite your research papers...



...forming a **crowdsourced database** with a unique layer of **social research information** and an **Open API**



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REPORT ON

Workshop on Technical Paper writing

Workshop on Technical Paper Writing was organised for B.E. Final Year Students of Mechanical Engineering Department of St. John College of Engineering and Management, Palghar.

Resource person – Dr. Kishor Rambhad, HOD, Mechanical Engineering, SJCEM, Palghar

Date of Workshop- 15-03-2023

No. Of Student attended – 22

During the workshop Dr. Kishor Rambhad gave the detail information of different components of the technical paper. He also explained each components in detail. This workshop will help to prepare student a research paper on their final year project.




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Types of manuscripts

- Original research article
- Review article
- Clinical Case studies
- Clinical Trial reports
- Perspectives/View

Dr. K. S. Ramchand, SICEM, Palghar

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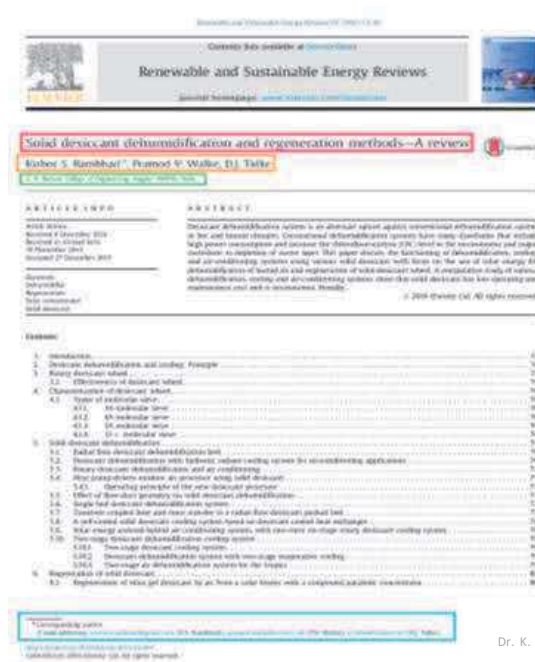
Research Paper Structure

1. Title
2. Abstract
3. Introduction
4. Methods/experimentation
5. Results
6. Discussion
7. Conclusion
8. Reference
9. appendix



Dr. K. S. Rambhad, SJCEM, Palghar

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Dr. K. S. Rambhad, SJCEM, Palghar



Dr. K. S. Rambhad, SJCEM, Palghar



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