



## Event Report

- 1. Name of Event:** 3D Printing
- 2. Nature of the Event:** Workshop
- 3. Date:** 9<sup>th</sup> Feb, 2024
- 4. Time:** 02:00 to 05:00 P.M.
- 5. Venue:** Auditorium, School of Technology, GSFC University, Vadodara
- 6. Organized by:** GSFC University, GUITAR Council, SSIP, Startup Gujarat and IIC (MoE GoI)
- 7. Number of Participants:** 74, Annexure – 1
- 8. Speaker:** Mr. Shaurin S Patel, MD & CEO, Vexma Technologies Pvt. Ltd.
- 9. Major discussions in the event:**

GSFC University, the GUITAR Council, Students Startup & Innovation Policy (SSIP), the Institution's Innovation Council (MoE), and Startup Gujarat organized a workshop on "3D Printing" on 9<sup>th</sup> February, 2024, from 2:00 to 5:00 P.M. at the Auditorium, School of Technology (SoT), GSFC University.

Krish Shah, B.Sc. Biotechnology student from the School of Sciences (SoS), welcomed the invited speaker, Mr. Shaurin Patel, MD of Vemxa Technologies Pvt. Ltd., Vadodara, and introduced him to the participants. Kirankumar Parmar, Senior Manager of the GUITAR Council, briefed the participants on the workshop details and invited everyone to use the 3D Printing facilities at Maker Lab – 2, GUITAR Council.

The workshop opened with a detailed account of the company's journey, initiated by Mr. Shaurin Patel upon his return to India in 2014. With a modest investment from his father, Mr. Patel embarked on establishing a business that has now become a leader in 3D printing technology, focusing on both plastic and metal additive manufacturing.

A company profile video was shown, emphasizing Vexman Technology's integration of Fused Deposition Modeling (FDM), Stereolithography (SLA), and Direct Metal Laser Sintering (DMLS) techniques. These technologies have placed the company at the forefront of sustainable manufacturing practices by minimizing waste and enhancing efficiency.



During the session, Mr. Shaurin Patel delved into the practical applications of 3D printing across various industries, with a special focus on the aerospace sector. He highlighted the revolutionary potential of 3D printing in manufacturing critical, complex components that require high precision and reliability.

The workshop included interactive discussions about the advancements in design and material science facilitated by 3D printing. Mr. Shaurin Patel demonstrated how 3D printing significantly speeds up the process from concept to prototype, and eventually to production, using diverse materials and methods tailored for specific industry needs.

Moreover, Mr. Shaurin Patel also touched upon the broader implications of 3D printing technology in other sectors like medical and automotive, illustrating its role in creating customized solutions such as implants and parts that are revolutionizing traditional manufacturing and design processes.

The workshop concluded with a Q&A session, where participants engaged with Mr. Shaurin Patel to explore further the capabilities and future directions of 3D printing technology. The workshop not only provided a comprehensive understanding of the technical aspects of 3D printing but also showcased the transformative impact of this technology in modern manufacturing and engineering.

Krish Shah expressed his thanks to the participants for attending the workshop, to the invited speaker, to the senior management of GSFC University, to the CEO of the GUITAR Council, and to the faculty members.

## 10. Learning outcomes of the event:

- Participants gained a comprehensive understanding of various 3D printing technologies, including Fused Deposition Modeling (FDM), Stereolithography (SLA), and Direct Metal Laser Sintering (DMLS), along with their applications across different industries.
- The workshop provided detailed insights into the materials used in 3D printing, such as plastics, metals, and composites, and explained how material selection impacts the functionality and durability of the final product.
- Participants learned about the importance of design in 3D printing, from conceptualization using CAD software to the final stages of product development, including understanding the constraints and benefits of design choices in 3D printing.



- Participants became familiar with the use of 3D printing software and the operation of 3D printers.

## 11. Feedback: Annexure -2

## 12. Resources:

### A. Presentation:

[https://drive.google.com/file/d/11lo7w5VLI0a1kEk5ywDZkvclpW7V\\_xPI/view?usp=sharing](https://drive.google.com/file/d/11lo7w5VLI0a1kEk5ywDZkvclpW7V_xPI/view?usp=sharing)

### B. Workshop Video:

<https://drive.google.com/file/d/1GqZcFwRZb6yqqHGqgRNk422EpjgpxZsQ/view?usp=sharing>

### C. Cura Software Usage: <https://www.youtube.com/watch?v=eUNTlb5pEWA>

### D. Free design for 3D printing: <https://www.thingiverse.com/>

### E. Post Processing after 3 D printing:

<https://www.makerbot.com/professional/post-processing/>

## 13. Photos:

**WORKSHOP ON  
3D PRINTING**

- An Overview of Different Types of 3D Printers
- Materials Used for 3D Printing
- Demonstration of 3D Printing
- Post-processing of 3D Printed Parts

Friday  
February 9, 2024

2:00 PM - 5:00 PM

Auditorium, SOT,  
GSFC University, Vadodara

**Mr. Shaurin Patel**  
MD and CEO  
Vexma Technologies Pvt. Ltd.

INSTITUTION'S  
INNOVATION  
COUNCIL  
(Ministry of Education Initiative)

SSIP

StartUp  
Igniting the future



**GSFC UNIVERSITY**  
EDUCATION RE-ENVISIONED



**GUITAR COUNCIL**











## Annexure-1

### Participant Details:

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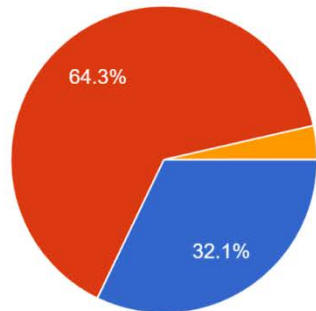


Annexure -2

Feedback:

The workshop objective were stated clearly and met.

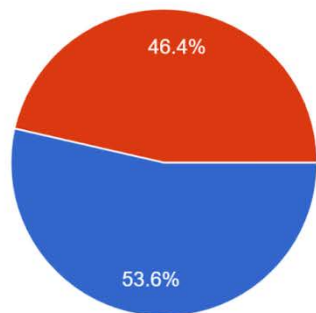
28 responses



- Strongly agree
- Agree
- Neutral
- Disagree
- Strongly disagree

The Speaker made the efforts to make me understand the topic.

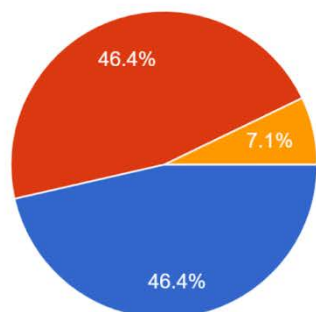
28 responses



- Strongly agree
- Agree
- Neutral
- Disagree
- Strongly disagree

The Workshop has increased my knowledge on 3D Printing.

28 responses

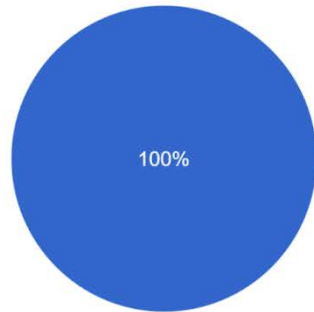


- Strongly agree
- Agree
- Neutral
- Disagree
- Strongly disagree



Did the workshop help you with new learning's or knowledge?

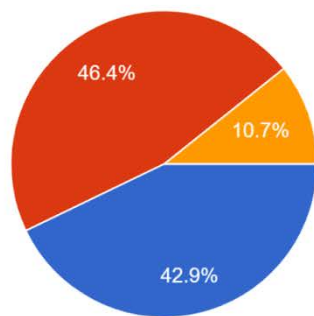
28 responses



- Yes
- No

This workshop will be beneficial for me to Prototype development, 3 D Model Development, Art & Craft etc.

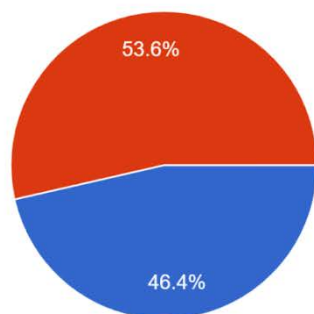
28 responses



- Strongly agree
- Agree
- Neutral
- Disagree
- Strongly disagree

Please rate your overall experience.

28 responses



- Excellent
- Good
- Fair
- Poor