

**BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY)**  
**Homoeopathic Medical College & Hospital,**  
Pune - Satara, Pune- 43

**Enhancing 3D Competencies of Medical Scholars – One week Training Program on  
3D Technologies**

❖ **Organised by:**

Bharati Vidyapeeth (Deemed to be University) Homoeopathic Medical College, Pune.  
MIT-World Peace University  
Dassault Systèmes La Foundation, India

❖ **Venue:**

Inaugural & Valedictory Ceremony - Interactive Research School for Health Affairs (IRSHA)  
Training Program - Bharati Vidyapeeth's College of Engineering for Women

❖ **Day & Date:** Monday 01st July 2024 to Friday 05th July 2024

❖ **Time:** 09:00AM to 05:00PM

**OBJECTIVES OF THE PROGRAM:**

- To provide exposure and basic hands-on training for medical students/budding doctors on 3D technologies – 3D modelling, 3D scanning and such applications which are becoming integral part of emerging medical domain.
- To correlate 3D technologies with medical application areas for better treatments and patient care.

**DETAILS OF THE PROGRAM:**

**INAUGURATION CEREMONY:**

- **The Chief Guest for the event:**  
**Dr. Pradeep Jadhav**  
**Principal**  
**Bharati Vidyapeeth's College of Engineering for Women**
- **The Guest of Honour for the event:**  
**Prof. Dr. Ganesh Kakandikar,**  
**Principal Investigator and Associate Dean,**  
**Faculty of Engineering and Technology, MIT WPU**

The inaugural session of the one-week training program titled "Enhancing 3D Competencies of Medical Scholars – One Week Training Program on 3D Technologies," organized by Bharati Vidyapeeth (Deemed to be University) Homoeopathic Medical College and MIT-World Peace University and co-sponsored by Dassault Systèmes La Foundation, began with a warm welcome to

all dignitaries and attendees. The event featured a traditional lamp lighting ceremony and floral tributes to our Founder Chancellor Dr. Patangraoji Kadam and Dr. Samuel Hahnemann, symbolizing the dispelling of darkness and the onset of knowledge. **Dr. Anita S. Patil, Dean, Faculty of Homoeopathy Bharati Vidyapeeth (Deemed to be University) Pune**, delivered an inspiring welcome address, expressing her gratitude to the guests and participants while emphasizing the importance of integrating new technologies in medical education. The dignitaries were then felicitated for their contributions. **Guest of Honor Prof. Dr. Ganesh. M. Kakandikar** introduced the program's objectives and the expected outcomes for the participants, providing detailed insights into the program structure and the collaborative efforts behind it, highlighting the significance of these technological skills in the contemporary medical landscape. **Chief Guest Dr. Pradeep Jadhav, Principal of Bharati Vidyapeeth's College of Engineering for Women**, delivered a compelling address, emphasizing the transformative potential of 3D technologies in medical education and practice. He discussed how 3D modelling and scanning are revolutionizing diagnostics, treatment planning, and patient care, and encouraged interdisciplinary learning for medical scholars. **Prof. Dr. Avinash Mhetre, Principal Incharge, B.V.D.U.H.M.C., Pune**, shared his introductory remarks, reaffirming the institution's commitment to embracing cutting-edge technologies in medical training. The session concluded with **Dr. Rahul Jagtap, Co-Principal Investigator**, outlining the program schedule and proposed learnings, extending a heartfelt vote of thanks to everyone involved, setting the stage for a productive and engaging week ahead.

## WORKSHOP SCHEDULE

Day/Date	Session details	
<b>Monday, 01 July 2024</b>	<b>Session 1:</b> Introduction to 3D Experience Platform <b>Presenters:</b> Dr. G. M. Kakandikar, Dr. Anil Mashalkar <b>Overview:</b> Introduction to the 3D Experience Platform and its capabilities.	<b>Session 2:</b> Introduction to 2D Sketches <b>Presenters:</b> Dr. Ashish Pawar, Dr. Omkar Kulkarni <b>Overview:</b> Basics of creating 2D sketches.
	<b>Session 3:</b> Basics of 3D Part Design <b>Presenters:</b> Dr. Omkar Kulkarni, Dr. Ashish Pawar <b>Overview:</b> Fundamentals of 3D part design.	<b>Session 4:</b> Case Study of 2D and 3D Designs <b>Presenters:</b> Dr. Ashish Pawar, Dr. Omkar Kulkarni <b>Overview:</b> Practical case studies on 2D and 3D designs.
<b>Tuesday, 02 July 2024</b>	<b>Session 1:</b> Introduction to Surface Design <b>Presenters:</b> Mr. Shrikant Yadav, Dr. Prashant Kumar <b>Overview:</b> Introduction to surface design concepts.	<b>Session 2:</b> Basics of Assembly Design <b>Presenters:</b> Mr. Shrikant Yadav, Dr. Prashant Kumar <b>Overview:</b> Basics of assembly design.

	<p><b>Session 3:</b> Basics of Drafting  <b>Presenters:</b> Dr. Prashant Kumar, Mr. Shrikant Yadav  <b>Overview:</b> Fundamentals of drafting.</p>	<p><b>Session 4:</b> Case Study of Surface and Assembly Designs  <b>Presenters:</b> Mr. Shrikant Yadav, Dr. Prashant Kumar  <b>Overview:</b> Case studies on surface and assembly designs.</p>
<b>Wednesday, 03 July 2024</b>	<p><b>Session 1:</b> Introduction to 3D Scanning and Its Applications  <b>Presenters:</b> Dr. Rahul Jagtap, Dr. Abhishek Thote  <b>Overview:</b> Introduction to 3D scanning technology and applications.</p>	<p><b>Session 2:</b> Scanning of 3D Components  <b>Presenters:</b> Dr. Rahul Jagtap, Dr. Abhishek Thote  <b>Overview:</b> Techniques for scanning 3D components.</p>
	<p><b>Session 3:</b> Post Processing of Scanned Data  <b>Presenters:</b> Dr. Rahul Jagtap, Dr. Abhishek Thote  <b>Overview:</b> Methods for post-processing scanned data.</p>	<p><b>Session 4:</b> Practical Training of 3D Scanner  <b>Presenters:</b> Mr. Atul Palange, Dr. Abhishek Thote  <b>Overview:</b> Hands-on training with a 3D scanner.</p>
<b>Thursday, 04 July 2024</b>	<p><b>Session 1:</b> Introduction to 3D Printing (Rapid Prototyping)  <b>Presenters:</b> Dr. Abhishek M. Thote, Dr. Rahul Jagtap  <b>Overview:</b> Basics of 3D printing and rapid prototyping.</p>	<p><b>Session 2:</b> Post Processing of CAD Data for 3D Printing  <b>Presenters:</b> Dr. Abhishek M. Thote, Dr. Rahul Jagtap  <b>Overview:</b> Preparing CAD data for 3D printing.</p>
	<p><b>Session 3:</b> Demonstration of 3D Printing Machine  <b>Presenters:</b> Mr. Atul Palange, Dr. Abhishek M. Thote  <b>Overview:</b> Live demonstration of a 3D printing machine.</p>	<p><b>Session 4:</b> Case Study of 3D Printing Applications  <b>Presenters:</b> Mr. Atul Palange, Dr. Abhishek Thote  <b>Overview:</b> Case studies on the applications of 3D printing.</p>
<b>Friday, 05 July 2024</b>	<p><b>Session 1:</b> Introduction to Biocompatible Materials and Their Applications  <b>Presenters:</b> Dr. Samidha Jawade, Dr. G. M. Kakandikar  <b>Overview:</b> Overview of biocompatible materials and their uses.</p>	<p><b>Session 2:</b> Introduction to Finite Element Analysis  <b>Presenters:</b> Dr. Anil Mashalkar, Dr. S. M. Jawade  <b>Overview:</b> Basics of finite element analysis.</p>
	<p><b>Session 3:</b> Structural Analysis with 3D</p>	<p><b>Session 4:</b> Case Study of Biocompatible</p>

	<p>Experience</p> <p><b>Presenters:</b> Dr. Anil Mashalkar, Dr. S. M. Jawade</p> <p><b>Overview:</b> Using the 3D Experience platform for structural analysis.</p>	<p>Materials with Finite Element Analysis</p> <p><b>Presenters:</b> Dr. Anil Mashalkar, Dr. G. M. Kakandikar</p> <p><b>Overview:</b> Case studies combining biocompatible materials and finite element analysis.</p>
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## VALEDICTORY CEREMONY

- The Chief Guest for the event:**  
**Mr. Salim Huzefa**  
**Executive Director**  
**Dassault Systèmes La Foundation, India**
- The Guest of Honour for the event:**  
**Dr. S.B. Barve**  
**User Support – Product Manager**  
**Faculty of Mechanical Engineering, MIT WPU**

The valedictory ceremony commenced with a warm welcome extended to dignitaries and attendees alike. The event was inaugurated with a symbolic lamp lighting ceremony, a traditional gesture symbolizing the pursuit of knowledge and wisdom, with dignitaries invited to participate in honoring Founder Chancellor Dr. Patangraoji Kadam and Father of Homoeopathy Dr. Samuel Hahnemann.

**Dr. Avinash Mhetre, Principal Incharge, Bharati Vidyapeeth (Deemed to be University) Homoeopathic Medical College**, delivered a welcome address emphasizing the program's significance and the role of 3D technologies in enhancing medical education. Amidst this auspicious atmosphere, **Mr. Salim Huzefa, the esteemed Chief Guest and Executive Director of Dassault Systèmes La Foundation, India**, took the stage. Mr. Huzefa's address resonated deeply with the audience, emphasizing the profound impact of 3D technologies in transforming medical education. He highlighted the importance of fostering innovation and technological literacy among future medical practitioners, underscoring how these advancements can revolutionize healthcare delivery and patient outcomes. His visionary insights into the role of technology in education inspired the audience, reinforcing the program's mission to enhance 3D competencies among medical scholars. **Dr. S.B. Barve, the Guest of Honour and User Support – Product Manager at MIT World Peace University**, emphasized the transformative impact of 3D technologies in education. He highlighted how these advancements enhance learning experiences and equip medical scholars with practical skills essential for modern healthcare practices. Dr. Barve's insights underscored the importance of integrating cutting-edge technologies into academic curricula to prepare students for future challenges and opportunities in the field of medicine.

The ceremony continued with a heartfelt certificate distribution, recognizing the dedication and achievements of the participants, followed by a gracious vote of thanks from Dr. Poonam Kakandikar, concluding the event on a note of gratitude and reflection.

**BENEFICIARIES:** MD Part I PG scholars have significantly benefited from the "Enhancing 3D Competencies of Medical Scholars – One Week Training Program on 3D Technologies." This program has equipped them with practical skills crucial for modern healthcare practices, leveraging advancements in 3D technologies. The integration of these innovative tools into their education ensures that they are well-prepared to meet the evolving demands of the medical field, enhancing their learning experiences and future professional capabilities.

## PHOTO GALLERY



Inaugural Ceremony of the training Program



Training sessions



Group photo with trainers and PG Scholars



Lamp lightening by the dignitaries



Felicitation of Chief Guest Mr.Salim Huzefa



Felicitation of Dr.Avinash Mhetre by organisers



Mr.Salim Huzefa addressing the event



PG Scholars sharing their experiences



Certificate distribution to PG Scholars



PG Scholars with Mr.Salim Huzefa and all the trainers



Dr. Anita.S.Patil  
Program Convenor  
Dean, FOH & P.G Co-coordinator  
B.V.(D.U.)H.M.C, Pune

Dr. Avinash R.Mhetre  
I/C Principal  
B.V.(D.U.)H.M.C, Pune