

A

Report on
5-Day Staff Development Program
(for Non-Teaching Staff)
on
“3D Printing”

(16 - 20 January, 2023)



Organized by
Department of Mechanical Engineering
e-Yantra lab, SKIT
Swami Keshvanand Institute of Technology, Management & Gramothan,
Jaipur

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

DEPARTMENT OF MECHANICAL ENGINEERING
Plan & Details of Events to be Organized in Session: 2022-23

S. No.	Type of Event	Title of Event	Mode of Conduct	Proposed Date	Name of Coordinator	Any Collaboration	Budget Required
8	VIP	Advanced Optimization Techniques	Online	January 9-13, 2023	Dr. Preet Singh Mr. Sudesh Garg		35000/-
9	EDP	Aras software and its applications	Online	February 14-18, 2023	Dr. Manu Augustine Mr. Anon Benmal Mr. Naveen Kumar Sam		20000/-
10	EDP	Energy simulation tools for renewable energy systems	Online	March 21-25, 2023	Dr. Chandan Kumar Mr. Dheeb Kumar Sharma Mr. Ashu Agarwal	KIRI ASHRAE Rajasthan Chapter	30000/-
11	Workshop	Hands on training on 3D printing for Non Teaching Staff	Physical	October 10-14, 2022	Prof. Dheeraj Joshi Mr. Praveen Saraswal	e Yatra	5000/-
12	International Conference	Smart Industries and Manufacturing Systems for Sustainable Development (SIMS 2022)	Online	November 11-12, 2022	Prof. Dheeraj Joshi Dr. Manoj Kumar Sam Mr. Praveen Saraswal	Evergreen Journal	20000/-
13	International Conference	ICONSER 2023	Physical	May 18-20, 2023	Prof. Ashish Nayyar	University of Malaysia, Pahang and Assisi University, Egypt	30000/-

Dr. Dheeraj Joshi
Principal, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Copy to:
Principal
Dean
JOS

Approved budget exceeds by one lakh amount under this head
is Rs 3,10,000/-
Therefore, it may be adjusted to according to sanctioned budget.
Approved Candidately forwarded to the Principal/Dean
as above
18/10/2022
28.9.22
28.9.22

Poster of FIP



Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

5-Day Staff Development Program (for Non-Teaching Staff)

on

“3D Printing”

16th - 20th January, 2023

Organized By:

**Department of Mechanical Engineering
& e-yantra Lab, SKIT**

Program Schedule

Date	Topic	Time & Venue
16-01-2023	Introduction to 3D Printing	1:30 PM to 3:30 PM (CAD Lab-I, ME Deptt.)
17-01-2023	Training Session on <i>Tinkercad</i> Software	
18-01-2023	Training Session on <i>Cura</i> Software	
19-01-2023	Hands-on experience on 3D Printer	
20-01-2023	Hands-on experience on 3D Printer	

Registration Link: <https://forms.gle/XsebRCdm75kwdKEk7>

Program Coordinators:

Prof. Dheeraj Joshi, Professor, ME
Mr. Praveen Saraswat, Assoc. Prof., ME
Mr. Ankit Agarwal, Assoc. Prof., ECE
Mr. Dinesh Lal Gupta, STA, ME

Contact:

Mr. Praveen Saraswat
Mo: 9785018458

About Workshop

Introduction:

The Department of Mechanical Engineering and e-yantra Lab are organizing a 5-Day Staff Development Program (for Non-Teaching Staff) on '3D Printing' during 16th - 20th January, 2023 in ME Deptt..(CAD Lab-I & E-Yantra Lab).

Engineers and designers have been using 3D printers for more than 30 years, but only recently have these versatile machines made their way into the public eye. Their seemingly overnight spike in popularity is due to an increase in accessibility, portability, the freedom in design modifications, creativity, speed and accuracy, cost-effectiveness, handling of complex-geometries, product diversifications, ease of operation and many more ! A basic and practical understanding of a typical 3D printing technology is very essential for all and especially the non-teaching staff members as they are engaged actively in the use, manipulation, maintenance etc. of various minor equipment in the hardware/machines/machine tools related laboratories.

This training program has been envisaged looking into the need, relevance and applicability of 3D printing knowledge for non-teaching staff members of following engineering branches:

Computer Science & Engineering

Information Technology

Electrical Engineering

Electronics & Communications Engineering

Civil Engineering,

Mechanical Engineering

Outcomes of Workshop:

Participants will be able to:

1. Understand the importance and application of 3d printing
2. Explain the basics of 3d printing
3. Create the customized products using the 3d printer.

No. of Participants – 16

Resource Persons

S. No.	Name of Resource Person	Designation	Organization
1	Prof. Dheeraj Joshi	Professor	SKIT, M & G, Jaipur
2	Mr. Praveen Saraswat	Asso. Prof.	SKIT, M & G, Jaipur
3	Mr. Ankit Agarwal	Asso. Prof.	SKIT, M & G, Jaipur
4	Mr. Dinesh Lal Gupta	STA	SKIT, M & G, Jaipur

Schedule of Workshop

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Participation List

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Department of Mechanical Engineering & e-yantra Lab, SKIT

5-Day Staff Development Program (for Non-Teaching Staff)

on

“3D Printing” 16th - 20th January, 2023

Attendance Sheet

S. N.	Name of Participant	EMP. ID	Deptt.	Email	Contact No
1	Hansraj Meena	250	CE	hansraj.meena@skit.ac.in	9414507719
2	Prahlad Kumar	1049	CE	Prahlad.kumar@skit.ac.in	8058632515
3	Suresh Kumar Yadav	1005	CE	suresh.yadav@skit.ac.in	8385883852
4	Ashish Kumar	1029	CSE	ashishdevkrankumar@gmail.com	8426014448
5	Dinesh Kumar Gautam	1069	CSE	dinesh.gautam@skit.ac.in	9461101004
6	Banwari Lal Sharma	1068	CSE	banwarilal.sharma@skit.ac.in	9799645282
7	Dilip Kumar Sharma	1073	CSE	dilip.sharma@skit.ac.in	8947988880
8	Suneel Kumar	1066	CSE	suneel.kumar@skit.ac.in	7424985891
9	Pawan Kumar Jangir	215	CSE	pawanjangir1981@gmail.com	9928354828
10	Kumari Renu	1023	ECE	Kumari.renu@skit.ac.in	9694488773
11	Richhpal Singh Ola	228	ECE	richhpalsinghola@gmail.com	9602348593
12	Suresh Kumar Kumawat	1061	ECE	suresh.kumawat@skit.ac.in	9785225258
13	Banshi Lal	1031	EE	Banshilalbhamboo@gmail.com	9680838048
14	Reshma Sharma	241	EE	riyajaipur1992@gmail.com	7014937947
15	Ravindra Singh Chaudhary	1030	ME	ravindra.choudhary@skit.ac.in	9929862563
16	Hemant Kumar	273	ME	hemant.kumar@skit.ac.in	9772716695

Participant Attendance

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Department of Mechanical Engineering & e-yantra Lab, SKIT

5-Day Staff Development Program (for Non-Teaching Staff)

on

"3D Printing" 16th - 20th January, 2023

Attendance Sheet

S. N.	Name of Participant	EMP. ID	Deptt.	16-01-2023	17-01-2023	18-01-2023	19-01-2023	20-01-2023
1	Hansraj Meena	250	CE	<i>Hansraj</i>	<i>Hansraj</i>	<i>Hansraj</i>	<i>Hansraj</i>	
2	Prahlad Kumar	1049	CE	<i>Prahlad</i>	<i>Prahlad</i>	<i>Prahlad</i>	<i>Prahlad</i>	<i>Prahlad</i>
3	Suresh Kumar Yadav	1005	CE	<i>Suresh</i>	<i>Suresh</i>	<i>Suresh</i>	<i>Suresh</i>	<i>Suresh</i>
4	Ashish Kumar	1029	CSE	<i>Ashish</i>	<i>Ashish</i>	<i>Ashish</i>	<i>Ashish</i>	<i>Ashish</i>
5	Dinesh Kumar Gautam	1069	CSE	<i>Dinesh</i>	<i>Dinesh</i>	<i>Dinesh</i>	<i>Dinesh</i>	<i>Dinesh</i>
6	Banwari Lal Sharma	1068	CSE	<i>Bs</i>	<i>Bs</i>	<i>Bs</i>	<i>Bs</i>	<i>Bs</i>
7	Dilip Kumar Sharma	1073	CSE	<i>Dilip</i>	<i>Dilip</i>	<i>Dilip</i>	<i>Dilip</i>	<i>Dilip</i>
8	Suneel Kumar	1066	CSE	<i>Suneel</i>	<i>Suneel</i>	<i>Suneel</i>	<i>Suneel</i>	<i>Suneel</i>
9	Pawan Kumar Jangir	215	CSE	<i>AB</i>	<i>Pawan</i>	<i>Pawan</i>	<i>Pawan</i>	<i>Pawan</i>
10	Kumari Renu	1023	ECE	<i>Renu</i>	<i>Renu</i>	<i>Renu</i>	<i>Renu</i>	<i>Renu</i>
11	Richhpal Singh Ola	228	ECE	<i>Richhpal</i>	<i>Richhpal</i>	<i>Richhpal</i>	<i>Richhpal</i>	<i>Richhpal</i>
12	Suresh Kumar Kumawat	1061	ECE	<i>Suresh Kumawat</i>	<i>Suresh Kumawat</i>	<i>Suresh Kumawat</i>	<i>Suresh Kumawat</i>	<i>Suresh Kumawat</i>
13	Banshi Lal	1031	EE	<i>Banshi Lal</i>	<i>Banshi Lal</i>	<i>Banshi Lal</i>	<i>Banshi Lal</i>	<i>Banshi Lal</i>
14	Reshma Sharma	241	EE	<i>Reshma</i>	<i>Reshma</i>	<i>Reshma</i>	<i>Reshma</i>	<i>Reshma</i>
15	Ravindra Singh Chaudhary	1030	ME	<i>Ravindra</i>	<i>Ravindra</i>	<i>Ravindra</i>	<i>Ravindra</i>	<i>Ravindra</i>
16	Hemant Kumar	273	ME	<i>Hemant</i>	<i>Hemant</i>	<i>Hemant</i>	<i>Hemant</i>	<i>Hemant</i>

Inauguration of Workshop

A five-day Staff Development Program (January 16-20, 2023) on 3D Printing organized by the Department of Mechanical Engineering in collaboration with E-Yantra Lab: SKIT inaugurated on Monday, January 16, 2023 at Swami Keshvanand Institute of Technology Management and Gramothan, Jagatpura. Prof. Dheeraj Joshi, HOD, Mechanical Engineering addressed the inauguration function by welcoming all the participants.

Mr. Praveen Saraswat SDP Coordinator, highlighted the brief introduction about the program and its contents. He informed that 18 technical assistants from different departments of SKIT College participated in this staff development programme.

Day 1 session was delivered by Prof. Dheeraj Joshi, Head, Department of Mechanical Engineering, Keshvanand Institute of Technology Management and Gramothan, Jagatpura. He highlighted the he principles of 3D printing and its applications in various field.





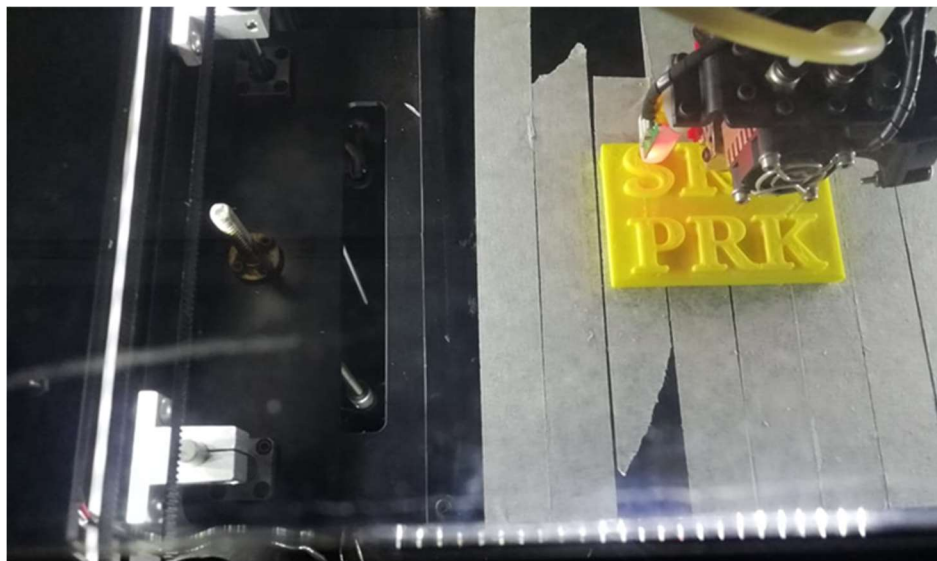
Day 2 session was delivered by Mr. Ankit Agarwal, Associate professor, Department of Electronics and Communication Engineering, Keshvanand Institute of Technology Management and Gramothan, Jagatpura. He gave the hand on training on Tinkercad software. All the participants have learnt the design of any component.

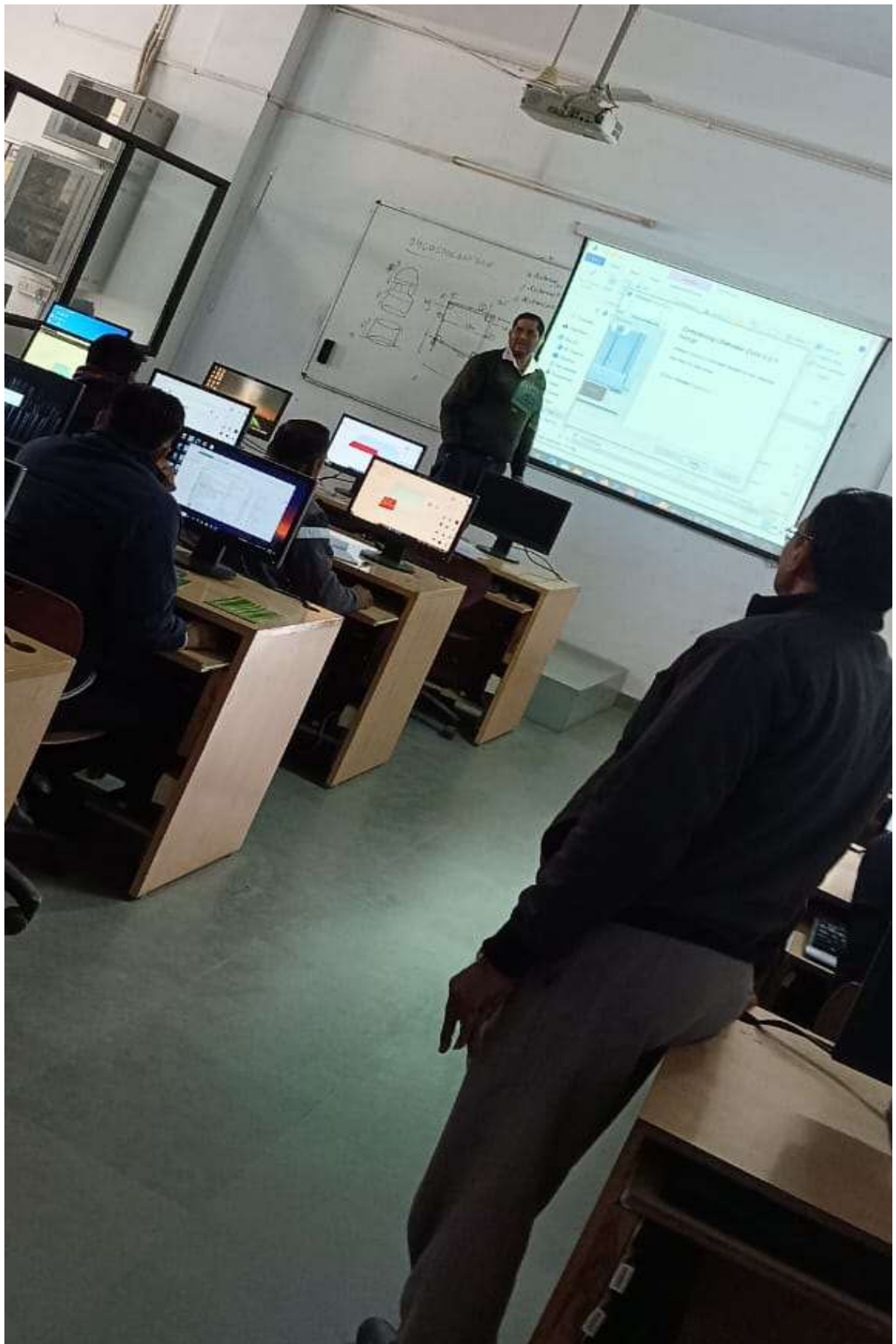




Day 3 session was delivered by Mr. Praveen Saraswat, Associate professor, Department of Mechanical Engineering, Keshvanand Institute of Technology Management and Gramothan, Jagatpura. He gave the hand on training on Ultimate Cura software. All the participants have learnt the slicing of part.

Day 4 and 5 sessions have the practical sessions on 3d printer. All the participants have seen the working of the printer. Mr. Dinesh Lal Gupta, STA, ME Deptt demonstrate the functioning of 3d printer. He also gave the basic instructions about the 3d printer. Many participants print their product by using the 3d printer.







Valedictory Session

A five-day Staff Development Program (January 16-20, 2023) on 3D Printing organized by the Department of Mechanical Engineering in collaboration with E-Yantra Lay: SKIT concluded on Friday, January 20, 2023 at Swami Keshvanand Institute of Technology Management and Gramothan, Jagatpura. Pro. Dheeraj Joshi, HOD, Mechanical Engineering addressed the valedictory function by welcoming all the participants.

Workshop coordinator Praveen Saraswat said that 18 technical assistants from different departments of SKIT College participated in this staff development programme. In this workshop, the principles of 3D printing were highlighted in detail. Along with this, the participants made a Udi model on Tinkercad software and learned slicing of the model on Ultimate Kuera software. The 3D printer was operated by Mr. Dinesh Lal Gupta. In the end, the participants learned to print the model on a 3D printer. In the workshop, the participants were also informed about the utility of 3D printing in different fields. In the end, Praveen Saraswat thanked the guest and the participants.





Media Coverage



जयपुर सिटी भास्कर 21-01-2023

वर्कशॉप में दी 3डी प्रिंटिंग की जानकारी



सिटी रिपोर्टर। जगतपुरा स्थित स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान में शुक्रवार को मैकेनिकल इंजीनियरिंग विभाग की ओर से ई-यंत्र लैब एसकेआईटी के सहयोग से आयोजित '3डी प्रिंटिंग' पर स्टाफ डवलपमेंट प्रोग्राम के समापन समारोह को प्रो. धीरज जोशी ने संबोधित किया। समन्वयक प्रवीण सारस्वत ने बताया कि इस स्टाफ डवलपमेंट प्रोग्राम में एसकेआईटी कॉलेज के विभिन्न विभागों से 18 तकनीकी सहायकों ने भाग लिया। इसके साथ ही प्रतिभागियों ने टिकरकैड सॉफ्टवेयर पर 3डी मॉडल बनाया और अल्टीमेट कुरा सॉफ्टवेयर पर मॉडल की स्लाइसिंग करना सीखा। 3डी प्रिंटर का संचालन दिनेश लाल गुप्ता ने किया। अंत में प्रतिभागियों ने 3डी प्रिंटर पर मॉडल को प्रिंट करना सीखा। कार्यशाला में 3डी प्रिंटिंग की अलग-अलग क्षेत्रों में उपयोगिता के बारे में भी प्रतिभागियों को अवगत कराया गया।

एसकेआईटी में 3डी प्रिंटिंग पर पाँच दिवसीय स्टाफ डवलपमेंट प्रोग्राम संपन्न



खबरों की दुनिया

जयपुर। जगतपुरा स्थित स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान में शुक्रवार को मैकेनिकल इंजीनियरिंग विभाग द्वारा ई-यंत्र लैब एसकेआईटी के सहयोग से आयोजित '3डी' प्रिंटिंग पर पाँच दिवसीय स्टाफ डवलपमेंट प्रोग्राम का समापन हुआ। प्रो. धीरज जोशी ने सभी प्रतिभागियों का स्वागत करते हुए समापन समारोह को संबोधित किया। कार्यशाला समन्वयक प्रवीण सारस्वत ने बताया कि इस स्टाफ डवलपमेंट प्रोग्राम में एसकेआईटी

कॉलेज के विभिन्न विभागों से 18 तकनीकी सहायकों ने भाग लिया। इसमें 3डी प्रिंटिंग के सिद्धांतों पर विस्तार से प्रकाश डाला। इसके साथ ही प्रतिभागियों ने टिकरकैड सॉफ्टवेयर पर 3डी मॉडल बनाया और अल्टीमेट कुरा सॉफ्टवेयर पर मॉडल की स्लाइसिंग करना सीखा। 3डी प्रिंटर का संचालन दिनेश लाल गुप्ता ने किया। अंत में प्रतिभागियों ने 3डी प्रिंटर पर मॉडल को प्रिंट करना सीखा। कार्यशाला में 3डी प्रिंटिंग की अलग-अलग क्षेत्रों में उपयोगिता के बारे में भी प्रतिभागियों को अवगत कराया गया। अंत में प्रवीण सारस्वत ने अतिथि और प्रतिभागियों को धन्यवाद दिया।

3डी प्रिंटिंग पर पांच दिवसीय स्टाफ डवलपमेंट प्रोग्राम

ब्यूरो/नवज्योति, जयपुर। एसकेआईटी में शुक्रवार को मैकेनिकल इंजीनियरिंग विभाग की ई-यंत्र लैब एसकेआईटी के सहयोग से आयोजित



3डी प्रिंटिंग पर पांच दिवसीय स्टाफ डवलपमेंट प्रोग्राम समापन हुआ। मैकेनिकल इंजीनियरिंग, विभागाध्यक्ष, प्रो. धीरज जोशी ने सभी प्रतिभागियों का स्वागत कर समापन समारोह को संबोधित किया। कार्यशाला

समन्वयक प्रवीण सारस्वत ने बताया कि इस स्टाफ डवलपमेंट प्रोग्राम में एसकेआईटी कॉलेज के विभिन्न विभागों से 18 तकनीकी सहायकों ने भाग लिया। 3डी प्रिंटर का संचालन दिनेश लाल गुप्ता ने किया।

एसकेआईटी में 3D प्रिंटिंग पर पाँच दिवसीय स्टाफ डवलपमेंट प्रोग्राम का समापन

P3 Police Public Politics

जयपुर । जगतपुरा स्थित स्वामी केशवानंद इंस्टीट्यूट आफ टैक्नोलोजी मैनेजमेंट एंड ग्रामोत्थान में शुक्रवार दिनांक 20 जनवरी 2023 को

मैकेनिकल इंजीनियरिंग विभाग द्वारा ई-यंत्र लैब एसकेआईटी के सहयोग से आयोजित 3D प्रिंटिंग पर पाँच दिवसीय स्टाफ डवलपमेंट प्रोग्राम (16-20 जनवरी 2023) समापन हुआ।

प्रो. धीरज जोशी, विभागाध्यक्ष, मैकेनिकल इंजीनियरिंग ने सभी प्रतिभागियों का स्वागत करते हुए समापन समारोह को संबोधित किया।

कार्यशाला समन्वयक प्रवीण सारस्वत ने बताया कि इस स्टाफ डवलपमेंट प्रोग्राम में एसकेआईटी कॉलेज के विभिन्न विभागों से 18 तकनीकी सहायकों ने भाग लिया। इस ज कार्यशाला

में 3D प्रिंटिंग के सिद्धांतों पर विस्तार से प्रकाश डाला। इसके साथ ही प्रतिभागियों ने टिकरकैड सॉफ्टवेयर पर 3डी मॉडल बनाया और अल्टीमेट कुरा सॉफ्टवेयर पर मॉडल की स्लाइसिंग करना सीखा 3D



प्रिन्टर का संचालन श्री दिनेश लाल गुप्ता ने किया। अंत में प्रतिभागियों ने 3D प्रिन्टर पर मॉडल को प्रिंट करना सीखा। कार्यशाला में 3डी प्रिंटिंग की अलग-अलग क्षेत्रों में उपयोगिता के बारे में भी प्रतिभागियों को अवगत कराया गया। अंत में प्रवीण सारस्वत ने अतिथि और प्रतिभागियों को धन्यवाद दिया।

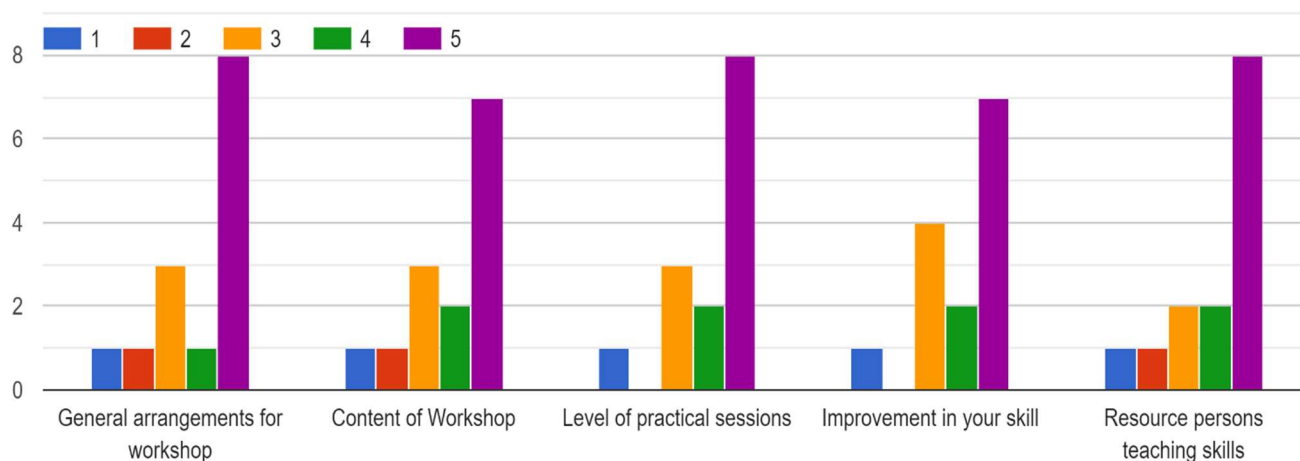
Sample Certificate

	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur	
5-Day Staff Development Program (For Non-Teaching Staff)		
on "3D PRINTING" 16-20th January, 2023		
<i>Certificate of Participation</i>		
<p>This is to certify that Mr./Ms.<i>Hemant</i>.....<i>Kumar</i>..... of Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur has participated in 5-Day Staff Development Program for Non-Teaching Staff on "3D PRINTING" during 16th - 20th January, 2023 organized by Department of Mechanical Engineering & e-Yantra Lab, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur.</p>		
 Prof. Ramesh Kumar Pachar Principal	 Dr. Dheeraj Joshi Head- ME	 Mr. Praveen Saraswat Coordinator, SDP

Feedback of Program

1. Rating of Sessions (1 to 5):

Rate your experience about the following points on a scale of 1 (Poor) to 5 (Excellent)



2. Any other point, You want to Mention/Suggest:

- Very good
- The training workshop conducted was much productive, informative and knowledgeable
- Best 3D Printing knowledge, And long time arrange work shop
- Improve skill. Best guidance
- First off all, I'm thankful to all you for your support and i wish, we will learn this type application in future with your support, plz increase duration time of this type Staff development program
- First of all i am thankful to all you for your support. It was a good opportunity for us to learn 3d printing