



Vel Tech

Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Vel Tech Technology Incubator organized workshop on 3D Printing & 3D Scanning

Event Report

Submitted By

Vel Tech TBI

Prof. Dr. E. Kannan
Registrar

Event Name: Workshop on 3D Printing & 3D Scanning

Date: 08.03.2017

Time: 10.00AM to 03.45 PM

Venue: Tinkering Lab, NI Lab, Research Park, Vel Tech

Rangarajan Dr.Sagunthala R&D Institute of Science and
Technology, Avadi, Chennai, India

Speaker of the Event:

- Mr. P.Chandrakumar (Manager-Vel Tech TBI),
- Mr. Riyaz Ahmed (Asst.Prof-Vel Tech University)


Prof. Dr. E. Kannan
Registrar

Supported by: Vel Tech Technology Incubator

3D Printing Workshop aims to share 3D printing knowledge to students and future engineers by conducting tech-workshops. This workshop on **“3D Printing & 3D scanning”** was organized for students of Aeronautical department. Totally 31 students participated.

Mr. P.Chandrakumar, Manager-Vel Tech TBI, started by addressing the audience and by giving them an insight about Vel Tech TBI and why they were conducting such events for the students, what benefit students will gain by such event and many more advantages for students.

Mr. Riyaz Ahmed explained various types of 3D printers, their working principle, the advantages and disadvantages of various printers and the variety of applications of 3D printers. The expert also demonstrated some 3D printed models. The curiosity among the students was at very high level and they were quite excited to know more about this advanced technology. The students asked many questions and the expert answered them upto their satisfaction level and cleared all the doubts.



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OBJECTIVE OF EVENT:

To bring more insights on 3D scanning, it is a fast, efficient process that's used to collect 3D point cloud data to create three dimensional models. Using specialist software, the 3D data is then quickly processed into a triangle mesh or STL file. We can then use this for a range of applications, including comparison to CAD and 3D printing

ABOUT 3D PRINTING:

3D printing is an additive method of manufacturing in which STL or CAD files are printed from a digital format to a physical object by laying down successive layers to build up the object. Items can be printed in a variety of materials and shades. It's also possible to produce working models with moving parts in one go, using the additive manufacturing technique.

ABOUT 3D SCANNING:

3D scanning is a fast, efficient process that's used to collect 3D point cloud data to create three dimensional models. Using specialist software, the 3D data is then quickly processed into a triangle mesh or STL file. We can then use this for a range of applications, including comparison to CAD and 3D printing.


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BENEFITS OF PRINTING:

3D printing enables you to prototype ideas quickly, bring projects to life and print in a variety of materials and geometries that no other technology can.

BENEFITS OF 3D SCANNING

3D scanning involves using non-contact, accurate measuring systems that are used to provide accurate and reliable data. It interfaces with standard 3D CAD packages for fast, effective, quality inspection and analysis.

3D scanning is a particularly useful tool for reverse engineering, prototyping, model-making, pattern and tool-making and 3D printing (which we'll move on to shortly).


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DIFFERENCE BETWEEN 3D PRINTING & 3D SCANNING:

3D scanning and 3D printing are two different techniques within the same rapidly-evolving world where virtually anything is possible (with the right technology and know-how) and the opportunities are endless.

BENEFITS OF SESSION:

It's fast, flexible, highly accurate, can be used by a wide range of applications and capture large amounts of high quality data.

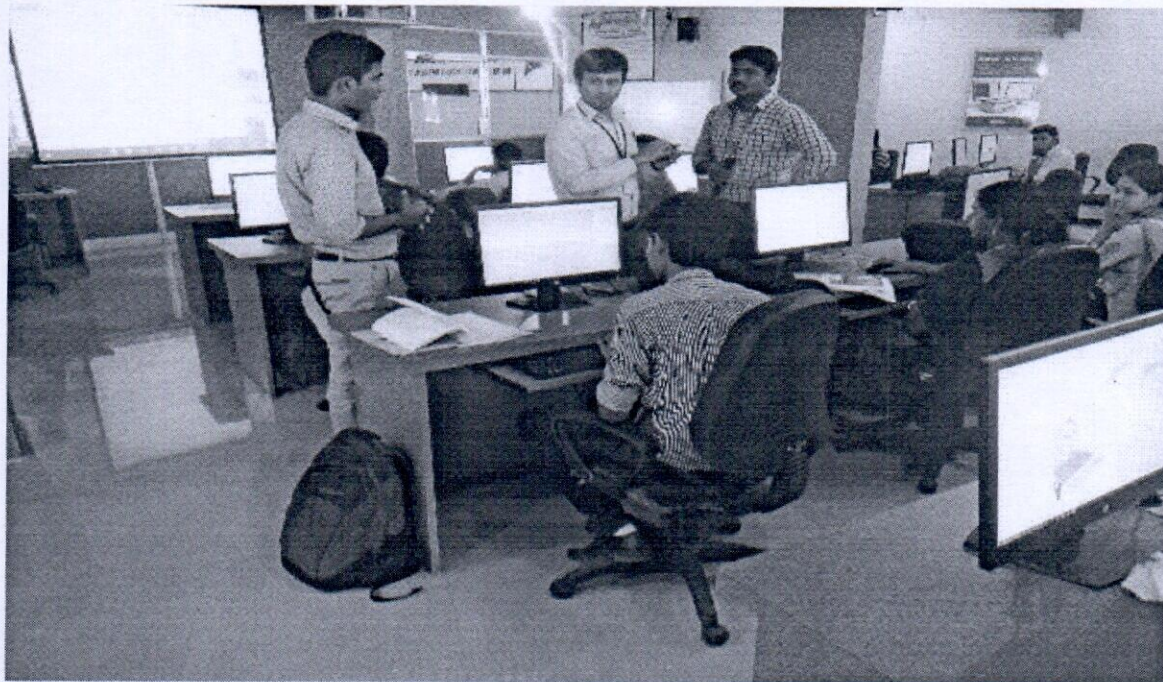
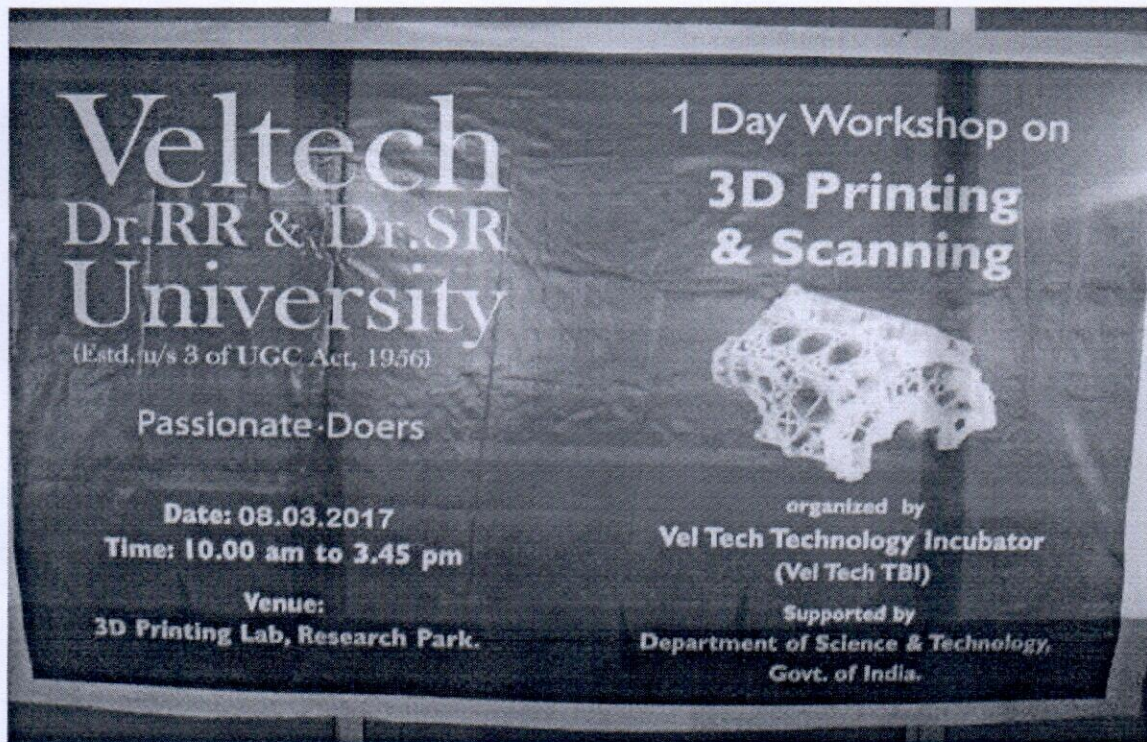
ATTENTENCE LIST

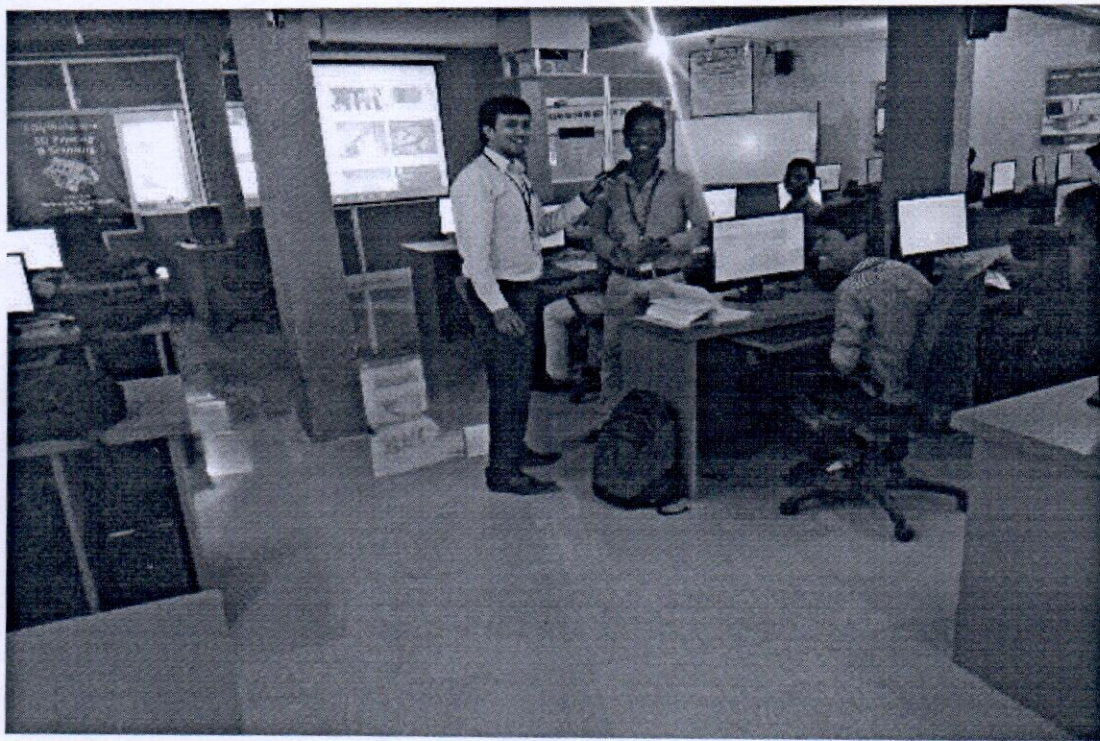
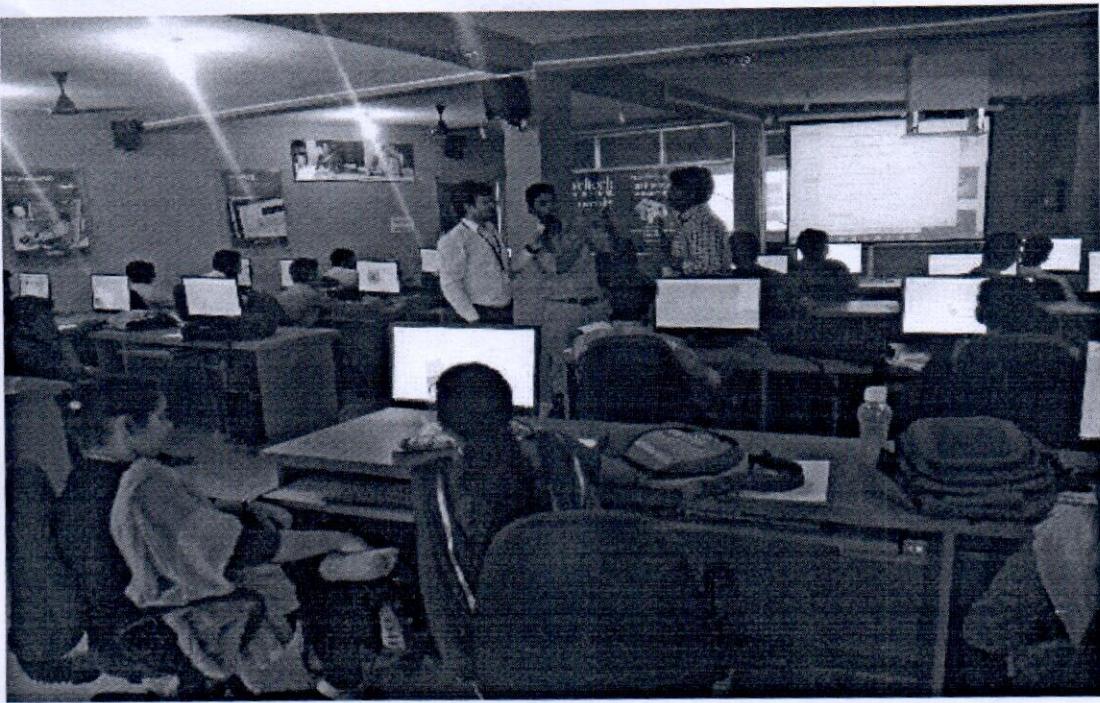
Veltech Dr.RR & Dr.SR University
Vel Tech Technology Incubator (Vel Tech TBI)
One Day Workshop on 3D Printing & 3D
Scanning on 08.03.2017
Attendance List

S.No	Name	VTU No	Sem	Dept
1	KUMBHAR SANKALP VIJAYKUMAR	6234	4	Aero
2	B. APPALA RAJU	6012	4	Aero
3	BANDREDDY KARTHEEK	6196	4	Aero
4	D. AKHIL KUMAR	6025	4	Aero
5	L. SAGAR ANIL RAJA	5880	4	Aero
6	S. SABARI GANESH	5143	4	Aero
7	S. JASWANTH SINHA	5767	4	Aero
8	A. POOJITHA	5555	6	Aero
9	JOEL SAMEUL RAJ	4738	6	Aero
10	NIVETHA SHYAM	4995	6	Aero
11	DEVI. G	4726	6	Aero
12	SHYAM. K. J	5546	6	Aero
13	VASAMSEHI AJAY KUMAR	5456	6	Aero
14	PRIYANKA KHAN	5749	6	Aero
15	R. HARSHAVARDHAN REDDY	5765	6	Aero
16	B. GOWTHAMAN	5237	6	Aero
17	K. GUNA SEKARAN	8447	6	Aero
18	E. DEEPAK KUMAR	5550	6	Aero

19	MERAJ ALAM	5141	6	Aero
20	BAKARAM BHAVANI	5531	6	Aero
21	SAHITH KANCHARLA	5525	6	Aero
22	GIRI REVANTH RAVISH	5596	6	Aero
23	KURUBA KARUNAKAR	5604	6	Aero
24	S.N.V. MANIKANTA	5651	6	Aero
25	KOSARAJU MANOHA. R	5372	6	Aero
26	AVULA UDAY KUMAR REDDY	5435	6	Aero
27	MUNI PARSAD	5640	6	Aero
28	R. DHAYANITHI	5559	6	Aero
29	G. SIVA SAI PRAKASH	5595	6	Aero
30	K. ANVESH	5401	6	Aero
31	M. SRIVARDHAN SATYARAJ	5357	6	Aero

PHOTOGRAPHS:





THANK YOU