

Yashwantrao Chavan College of Science, Karad

Department of Electronics

Industrial Visit -2020-21

Class – B.Sc.III

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HOD

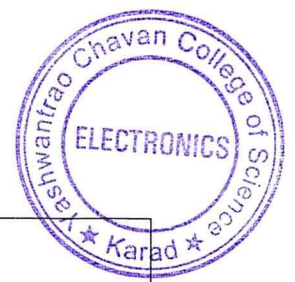
Department of Electronics
Yashwantrao Chavan College of Science,
Karad





Principal

Yashwantrao Chavan College of Science, Karad





Yashwantrao Chavan College of Science, Karad ACTIVITY REPORT	
Name of the Department: Electronics Academic Year – 2020-21	
Name of the activity	A 3D XYZ Device & System , 3D printer Workshop ,GH Society ,Karad. (online)
Purpose of Program	To makes students know resent rends in Electronics
No. of Students Participated	15
No. of Teachers Participated	03
Program outcomes	1) Students are updated with the recent knowledge in Electronics. 2) Students are inspired by the recent development in Electronics
Program Photo	


Teacher In charge


Signature
Head of the Department

HEAD
Department of Electronics
Yashwantrao Chavan College of Science,
Karad


Signature
Principal

Principal
Yashwantrao Chavan College of Science, Karad

Estd. 1958



|| Be One with the downtrodden and the underprivileged ||
Shri Shivaji Education Society Karad, Board For Higher Education's

YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

Vidyanagar, KARAD - 415 124 Dist. Satara (Maharashtra)

☎ 02164 - 271356, 271357 Fax : 02164-271356, e-mail : prinyccsk@gmail.com

Reaccredited B** Level by NAAC, Bangalore

AN ISO 9001-2015 CERTIFIED COLLEGE REG. NO. : RQ91/5237

Ref No:-

Date

To,

Mr. Avadhut Deshmukh

A3DXYZ Devices & System ,Karad.

Subject : Thanking letter

Respected Sir,

Our B.Sc.II or B.Sc.III (Electronics) Students visited to A3DXYZ Devices and System.

They Observed and learnt know hows of printer. Also they learnt functioning of printer.

We are thankful to you for this co operation.

Thanking You,

Yours faithfully,

Principal

Yashwantrao Chavan College of Science, Karad





Estd. 1958

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Ref No:- 20 / 21

Date-25/07/2021

To,

Mr.Avadhut Deshmukh

A3DXYZ Devices & System ,Karad.

Subject :- About visiting company .

Respected Sir,

We have industrial visit as a part of Syllabus .

Hence we wish to visit A3DXYZ company on 28/07/2021 , Thursday.

Please allow us to visit the Company .

The No. of Student visiting will be 15 Three Teachers will escort them.

Thanking You,

Yours faithfully

Principal

Yashwantrao Chavan College of Science, Karad



Yashwantrao Chavan College of Science, Karad

DEPARTMENT OF ELECTRONICS

List of Student B.Sc.III (20-21)

Industrial Visit to 3D Printer Workshop, GH Society ,Karad.



Sr.No.	Roll No	Name	class
1	3071	Chalke Aakanksha Arun	B.Sc . III
2	3072	Chitn is Arya Chandrashekhar	B.Sc . III
3	3073	Desai Aniket Shajirao	B.Sc . III
4	3074	Deshmukh Aniket Vinayak	B.Sc . III
5	3075	Dubal Hrutuja Bharat	B.Sc . III
6	3076	Gurav Sanket Sunil	B.Sc . III
7	3077	Jadhav Shashank Shivaji	B.Sc . III
8	3078	Joshi Prasanna Vikas	B.Sc . III
9	3079	Kadam Vrushali Rvindra	B.Sc . III
10	3080	Mohite Pratiksha Uttam	B.Sc . III
11	3081	More Abhishek Jagganath	B.Sc . III
11	3082	Mulla Aapak Daddamaiya	B.Sc . III
12	3083	Nalawade Aditya Narayan	B.Sc . III
13	3084	Patil Amruta Vikas	B.Sc . III
14	3085	Patil Ashitosh Adhikrao	B.Sc . III
15	3086	Sapakal Aswini Krushanath	B.Sc . III

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ONLINE INDUSTRIAL VISIT TO A3D XYZ SYSTEMS AND DEVICES, KARAD

REPORTED BY: Chitnis Arya Chandrashekhar

PLACE : Gajanan Housing Society

DATE : 29/07/2021

TIME : 12.00pm to 1.00pm

INTRODUCTION:

Online Industrial visit was made to 3D Printers project created by **Mr. Avadhut Deshmukh**. He had started this startup only a few years ago and has received Best MSME 2021 Award for this project. Mr. Avadhut's industry is situated in Gajanan Housing Society, Karad.

This visit was made so that the students could understand the concept of 3D Printers and realize the great career opportunities it can offer.



A handwritten signature in blue ink, likely belonging to the Principal of the college.

Principal

Yashwantrao Chavan College of Science, Karad

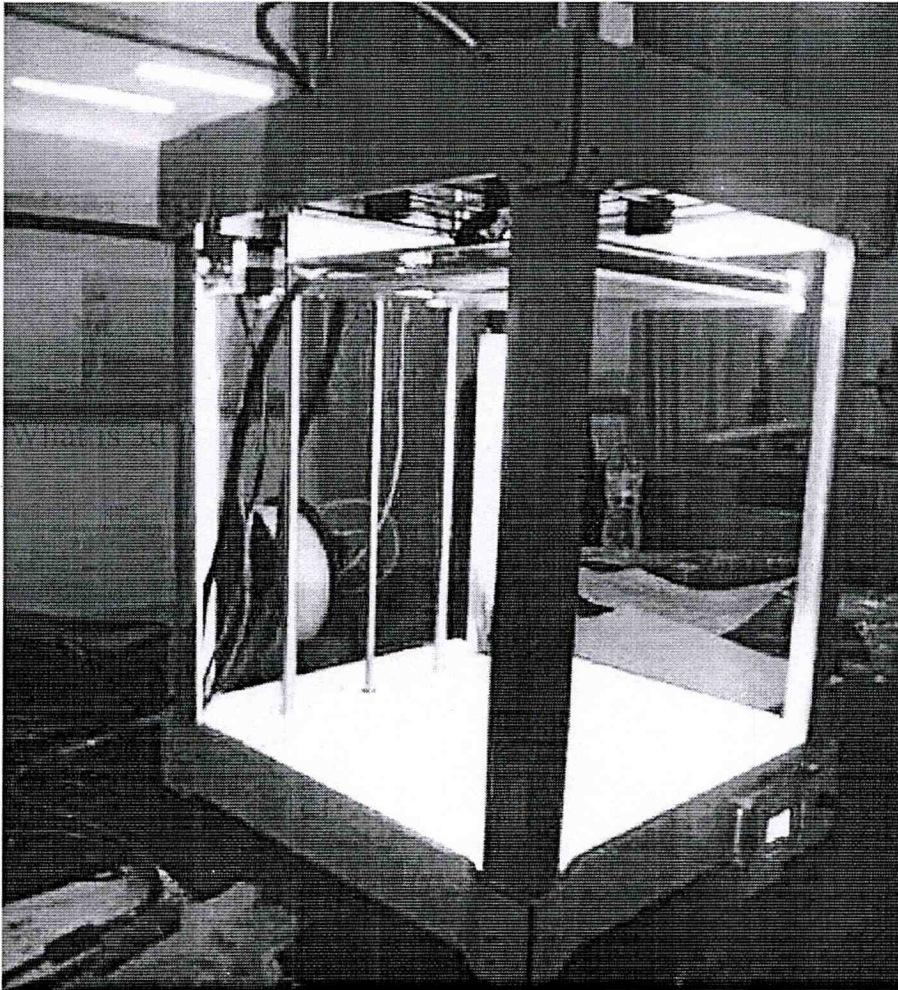
This visit was possible due to the initiative of **Asif Mulla Sir**. Students were introduced to the project by **Mr. Rajendra Deshmukh** and his son **Mr. Avadhut Deshmukh**. Later Mr. Rajendra Deshmukh gave the detailed information about the project. Many students had participated in this visit.



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CONTENT :

What is 3d Printing



3D Printing is a process for making a physical object from a three dimensional digital model, typically by laying down many successive thin layers of a metal or materials. It brings a digital model, typically by laying down many successive thin layer of a digital object(its CAD



A handwritten signature in blue ink, appearing to be "S. S. Chavan".

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representation into its physical form by adding materials layer by layer).

3D Printing is also called Additive manufacturing .

A3DXYZ - 3D PRINTERS and 3DPRINTING SYSTEMS

3D Printing or rapid prototyping is an additive manufacturing process to create a physical object from a digital 3D design.

WHAT IS 3D PRINTING HARDWARE ?

3D Printing hardware or additive manufacturing is a process of making three dimensional solid objects from a digital file. The creation of 3D printed object is achieved using additive process. 3D Printing enables you to produce complex shapes using less material than traditional manufacturing methods.

FELAMENTS FOR 3D PRINTING

POLYLACTIC ACID FILAMENT

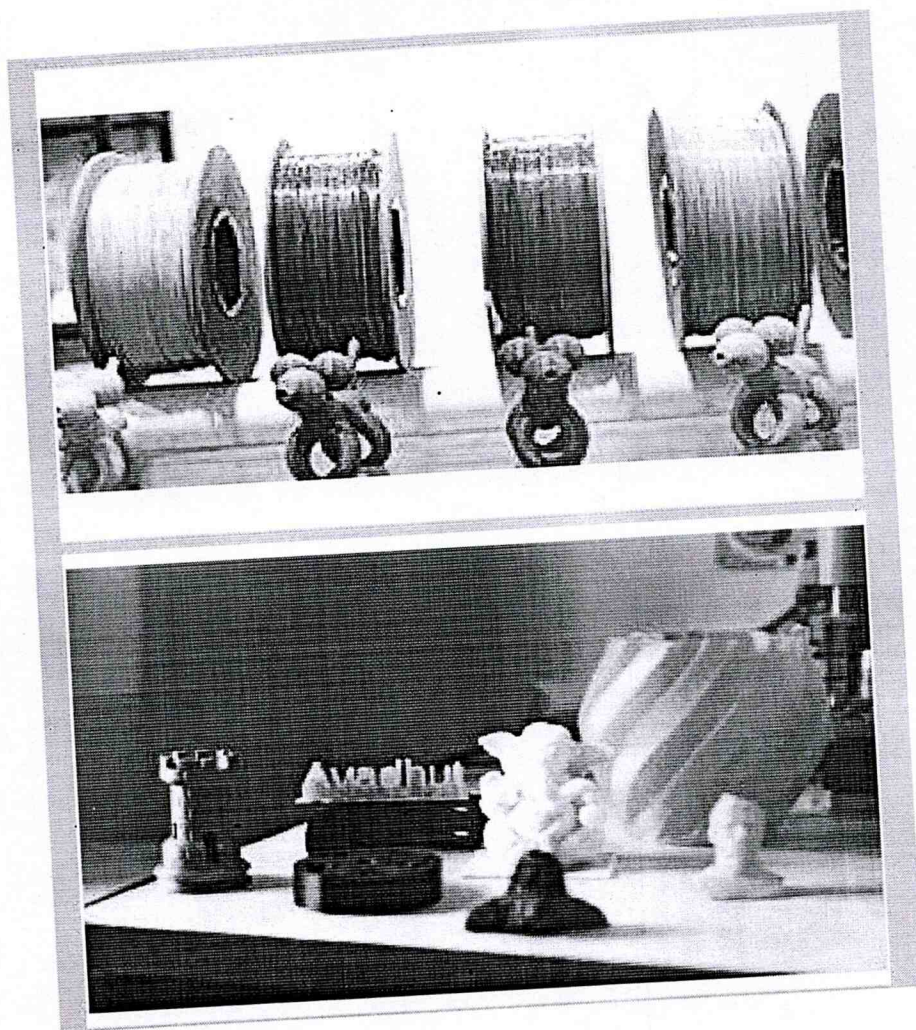
In the realm of consumer 3D Printing, Polylactic Acid (PLA) is King. Although it is often compared to ABS, arguably the next in line to the throne – PLA is easily the most popular 3D Printer filament type and for good reasons.

3D Printing filament is the thermoplastic feedstock for deposition modelling 3D Printer. There are many types available with different properties, requiring is commonly available in two standard diameters of **1.15mm** and **2.85mm**. 2.85mm is sometimes referred to as **3mm** but should not be confused with the less common filament size that actually measures 3mm in diameters.

Filament size should not be confused with the nozzle size and several different combinations of nozzle and filament size may be used. One of the most common nozzle size **0.4mm**.



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Handwritten signature of the Principal.

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TYPE OF 3D printing

FUSED DEPOSITION MODELLING {FDM}

FDM works using a plastic filament which is unwound from a spool and is supplied to an extrusion nozzle which can turn the flow on and off. The nozzle is heated to melt the material and can be moved in both horizontal and vertical directions by numerically controlled mechanism. The object is produced by extruding melted material to form layer as the material hardens immediately after extrusion from the nozzle.

Application

- Consumer Products (Eyewear, Footwear design, Furniture)
- Industrial Products (Manufacturing tools, Prototypes, Functional end-use parts)
- Dental Products
- Architecture scale models and maquettes.



A handwritten signature in blue ink, consisting of stylized initials and a surname.

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CONCLUSION/ FEEDBACK :

At the end of the visit Mr. Rajendra Deshmukh encouraged the students to learn about this project and also offered interships to the students who wanted to learn about this project. This kind initiative of him not only inspired the students to learn more about this field but also made this visit a huge success.



A handwritten signature in blue ink, appearing to be "Rajendra Deshmukh".

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DEPARTMENT OF ELECTRONICS

CERTIFICATE

INDUSTRIAL VISIT 2020-21

This is to certify that ~~Mr./~~Miss **ARYA CHANDRASHEKHAR CHITNIS**
of BSc III class participated in the Industrial Visit organized by
Department of Electronics to visit A3DXYZ Devices and
Systems,Karad

~~He/~~She has submitted ~~his/~~her Industrial Visit Report on 29th July 2021


TOUR IN-CHARGE


EXAMINER


HOD

HEAD
Department of Electronics
Yashwantrao Chavan College of Science,
Karad




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Yashwantrao Chavan College of Science, Karad

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Department of Electronics

Feedback form

Industrial Visit at A3DXYZ Devices and systems, Karad
Name of the

Student:

Aakanksha Arun Chatterjee
Class: B.Sc. III Roll No. 3071

		Excellent (5)	Very Good (4)	Good (3)	Satisfactory (2)	Poor (1)
1	Organization of Industrial Visit	✓	2	1		
2	Location selected for the industry visit/study	3	✓4	1	1	
3	The response of Industrial expert	✓6	7	1	2	
4	Encouragement for the startup	✓	8		1	
5	Over all Departmental co-operation & schedule management	✓	9	3	3	

Date - 29/07/2021

Sign. Mulla

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Department of Electronics

Feedback form

Industrial Visit at A3DXY2 devices and systems. karad

Name Dubal Hrutuja Bhaxat of the

Student:

Class: B.Sc - III Roll No. 3075

		Excellent (5)	Very Good (4)	Good (3)	Satisfactory (2)	Poor (1)
1	Organization of Industrial Visit	✓				
2	Location selected for the industry visit/study	✓				
3	The response of Industrial expert		✓			
4	Encouragement for the startup	✓				
5	Over all Departmental co-operation & schedule management	✓				

Date 29/07/2021

Sign.

H. B. Dubal Principal Yashwantrao Chavan College of Science, Karad



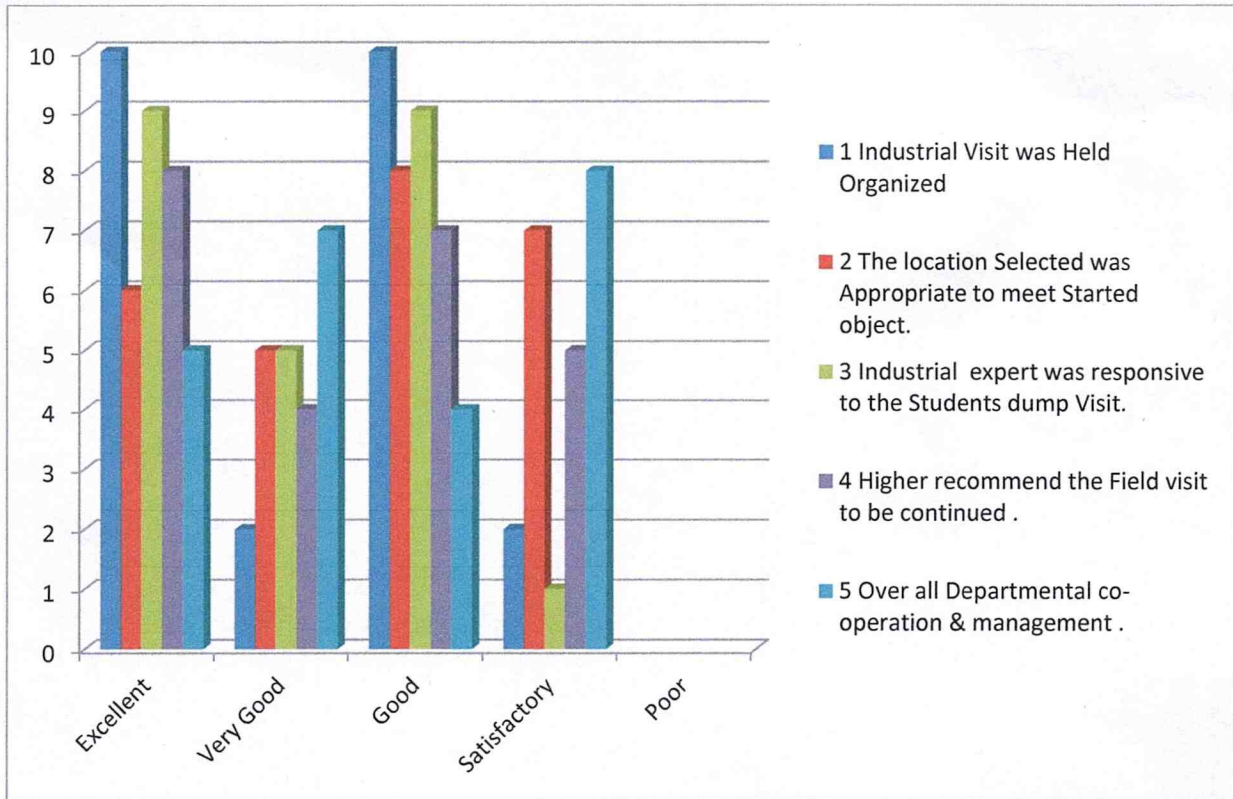
Yashwantrao Chavan College of Science, Karad


Department of Electronics


Feedback form

Year (B.Sc. III) 2020-21

		Excellent (5)	Very Good (4)	Good (3)	Satisfactory (2)	Poor (1)
1	Industrial Visit was Held Organized	12	2	1		
2	The location Selected was Appropriate to meet Started object.	9	4	1	1	
3	Industrial expert was responsive to the Students dump Visit.	6	7	1	2	
4	Higher recommend the Field visit to be continued .	1	8		1	
5	Over all Departmental co-operation & management .	1	9	3	3	




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