



S J P N Trust's

**Hirasugar Institute of Technology, Nidasoshi***Inculcating Values, Promoting Prosperity*

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Mech. Engg. Dept.

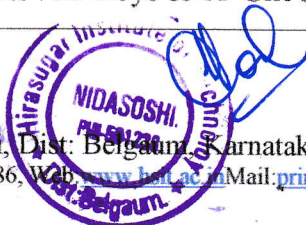
AIMSS

Activity Report

AY:2023-24

**Activity Report**

S.No.	Title of the information	Information in brief
1	Identified Gap No/s.:	23
2	Activity Type:	Technical talk
3	Activity/Event Organizer/s or Coordinator/s:	Dr. S. N. Topannavar, Professor and HOD, Mechanical Engineering Department, HSIT Nidasoshi
4	Title of the Activity/Event:	Technical talk on IPR and 3-D Printing
5	Date:	19-01-2024
6	Venue:	Mechanical Seminar Hall
7	Objectives:	<ol style="list-style-type: none"><li>1. To Understand &amp; create public awareness about the benefits of Intellectual property among all sections of society.</li><li>2. To stimulate the creation and growth of intellectual property by undertaking relevant measures.</li><li>3. To create awareness about laws about IP rights, consistent with international obligations.</li><li>4. Understand basics of 3D Printing Technology and it's important in the manufacturing domain.</li><li>5. Understand to produce realistic 3 dimensional mini-models in Mechanical Engineering domain.</li><li>6. How to reduce the time and effort of the manufacturer to create a prototype in Mechanical Engineering domain</li></ol>
8	Activity Outcomes:	<ol style="list-style-type: none"><li>1. Enhance the market value of employment and Turn ideas into profit-making assets.</li><li>2. Market your business' products and services and Access or raise finance for marketing. Enhance export opportunities for trade.</li><li>3. 3D printing, like modeling or three dimensional scanning, is a creation tool among other things, but what most distinguishes it is its potential to create an almost unlimited number of shapes.</li><li>4. With the integration of 3D printing technologies, manufacturers can now produce previously prohibitively expensive parts. From prototyping to the production of final components, 3D printing offers design freedom, reduces material waste, and accelerates the product development cycle.</li><li>5. 3D printing reduces the environmental impact of manufacturing by lowering waste, energy usage, and need for space compared to traditional factory processes.</li></ol>
9	Details of Resource Person/s with contact details:	Dr. Amit. Gadagi, Associate Professor, Mechanical Engineering Department, KLE Technological Univesrty's Dr. M.S. Sheshagiri College of Engineering and Technology, Belagavi
10	Finance Management:	Expenses incurred by the Department Association (AIMSS)
11	No. of participants	Students : 25 Boys & 03 Girl students, Staff: 11 members





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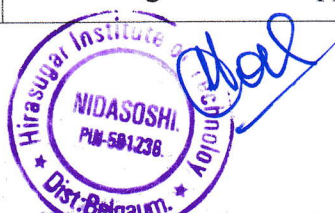
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Activity Report

AY:2023-24

12	Mapped POs, Weight-age assigned & %age of attainment: PO (Weight-age)	<table border="1"> <thead> <tr> <th>PO mapped</th> <th>Weight-age assigned (1/2/3)</th> <th>%age of Attainment</th> <th>Level of attainment</th> </tr> </thead> <tbody> <tr><td>PO1</td><td>2</td><td>86.5</td><td>1.73</td></tr> <tr><td>PO2</td><td>2</td><td>86.5</td><td>1.73</td></tr> <tr><td>PO3</td><td>2</td><td>86.5</td><td>1.73</td></tr> <tr><td>PO4</td><td>2</td><td>86.5</td><td>1.73</td></tr> <tr><td>PO5</td><td>3</td><td>86.5</td><td>2.595</td></tr> <tr><td>PO6</td><td>3</td><td>86.5</td><td>2.595</td></tr> <tr><td>PO7</td><td>3</td><td>86.5</td><td>2.595</td></tr> <tr><td>PO8</td><td>3</td><td>86.5</td><td>2.595</td></tr> <tr><td>PO9</td><td>2</td><td>86.5</td><td>1.73</td></tr> <tr><td>PO10</td><td>2</td><td>86.5</td><td>1.73</td></tr> <tr><td>PO11</td><td>2</td><td>86.5</td><td>1.73</td></tr> <tr><td>PO12</td><td>3</td><td>86.5</td><td>2.595</td></tr> </tbody> </table>	PO mapped	Weight-age assigned (1/2/3)	%age of Attainment	Level of attainment	PO1	2	86.5	1.73	PO2	2	86.5	1.73	PO3	2	86.5	1.73	PO4	2	86.5	1.73	PO5	3	86.5	2.595	PO6	3	86.5	2.595	PO7	3	86.5	2.595	PO8	3	86.5	2.595	PO9	2	86.5	1.73	PO10	2	86.5	1.73	PO11	2	86.5	1.73	PO12	3	86.5	2.595
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13	Mapped PSOs, Weight-age assigned & %age of attainment : PSO ( Weight-age)	<table border="1"> <thead> <tr> <th>PSO mapped</th> <th>Weight-age assigned (1/2/3)</th> <th>% age of Attainment</th> <th>Level of attainment</th> </tr> </thead> <tbody> <tr><td>PSO1</td><td>2</td><td>86.5</td><td>1.73</td></tr> <tr><td>PSO2</td><td>2</td><td>86.5</td><td>1.73</td></tr> <tr><td>PSO3</td><td>2</td><td>86.5</td><td>1.73</td></tr> </tbody> </table>	PSO mapped	Weight-age assigned (1/2/3)	% age of Attainment	Level of attainment	PSO1	2	86.5	1.73	PSO2	2	86.5	1.73	PSO3	2	86.5	1.73																																				
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14	Outcomes achieved/Impact analysis:	<ol style="list-style-type: none"> <li>The activity mapped with PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11 and PO12 was found satisfactory with attainment levels of 1.73, 1.73, 1.73, 1.73, 2.595, 2.595, 2.595, 2.595, 1.73, 1.73, 1.73 and 2.595 against the mapped values during the impact analysis.</li> <li>The activity mapped with PSO1, PSO2 and PSO3 was found satisfactory with attainment levels of 1.73, 1.73 and 1.73 against the mapped values during the impact analysis.</li> </ol>																																																				





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Activity Report

AY:2023-24


## Photo Gallery

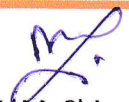


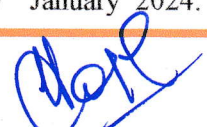
Dr. Amit. Gadagi, Associate Professor, Mechanical Engineering Department, KLE Technological University's Dr. M.S. Sheshagiri College of Engineering and Technology, Belagavi is interacting with students on the occasion of the technical talk on IPR and 3-D printing held on 19<sup>th</sup> January 2024.



Staff and students are attended a technical talk on on IPR and 3-D printing held on 19<sup>th</sup> January 2024.

  
Mr. Akash R. Anajapatil  
AIMSS Secretary

  
Dr. M.M. Shivashimpi & Prof. D. N. Inamdar  
AIMSS-Coordinator/s

  
Dr. S. N. Topannavar  
HOD

Nidasoshi, Taq: Hukkeri, Dist: Belgaum, Karnataka - 5911256  
Phone: +91-8333-278887, Fax: 278886, Web: [www.hsit.ac.in](http://www.hsit.ac.in) Mail: [principal@hsit.ac.in](mailto:principal@hsit.ac.in)

**Mechanical Engg.**  
**HIT, Nidasoshi**



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Activities

AY: 2023-24

### Notice

Date: 19/01/2024

All the staff, third and fifth semester students are hereby informed to attend the Technical Talk on “IPR & 3D Printing” on 19<sup>th</sup> January 2024 at 12.30 PM in Mechanical seminar hall by Dr. Amith Gadagi, Associate Prof, Mechanical Engineering Department, KLE Technological University's, Dr. M S Sheshgiri College of Engineering and Technology, Belagavi. Hence, all are cordially invited to attend the technical talk.

#### Circulation to

- i) III semester students
- ii) V Semester Students *m*
- iii) Staff

KMA	<i>KMA</i>	DNI	<i>DNI</i>
MSF	<i>MSF</i>	SAG	<i>SAG</i>
MMS	<i>MMS</i>	MAH	<i>MAH</i>
GMZ	<i>GMZ</i>	PMK	<i>PMK</i>
VGB	<i>VGB</i>	ABS	<i>ABS</i>

*m*  
Dr. M. M. Shivashimpi & Prof. D.N. Inamdar  
AIMSS Coordinators

*Topannavar*  
Dr. S. N. Topannavar  
HOD  
Mechanical Engg.  
HIT, Nidasoshi

1/19/24, 4:27 PM

Hirasugar Institute of Technology Mail - Invitation as a "Resource Person" to to deliver Technical Talk on "Entrepreneur- A Job Cre...



Dr. M.M. Shivashimpi <mmshivashimpi.mech@hsit.ac.in>

## Invitation as a "Resource Person" to to deliver Technical Talk on "Entrepreneur- A Job Creator" on 19th Jan 2024

1 message

HOD MECH <hod.mech@hsit.ac.in>

Wed, Jan 17, 2024 at 2:22 PM

To: "cvadake@klescet.ac.in" <cvadake@klescet.ac.in>

Cc: "Dr. M.M. Shivashimpi" <mmshivashimpi.mech@hsit.ac.in>

Respected Sir,

Namaste and Good morning.....

Greetings from Mechanical Engineering Department's Association Integrated by Mechanical Staff & Students (AIMSS)

With reference to the telephonic discussion with you on 17th Jan. 2024, it's our pleasure to have you as a "Resource Person" to deliver Technical Talk on "IPR & 3D Printing" on 19th Jan 2024

I request you to accept the same and acknowledge.

I hope you will do the needful.

--

With Regards...

**Dr. S. N. Topannavar** M.Tech., Ph.D.

Professor & Head

Mechanical Engineering Department

Hirasugar Institute of Technology

Pin Code: 591236, Karnataka, India

Cell: 9482440235, Mail: [hod.mech@hsit.ac.in](mailto:hod.mech@hsit.ac.in)

Web; [www.hsit.ac.in](http://www.hsit.ac.in)

Phone: +91-8333-278887, Fax: 278886





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AIMSS

Activities

AY: 2023-24

**Date: 18-01-2024**

The following staff members are attended Technical Talk on "IPR & 3D Printing" organized on 09.01.2024 at 12.30 PM in Mechanical Seminar Hall.

Sl. No.	Name of Staff	Designation	Signature	Remark
1	Dr. S. N. Topannavar	Professor and HOD		
2	Dr. K. M. Akkoli	Associate Professor		
3	Dr. M. M. Shivashimpi	Associate Professor		
4	Prof. D. N. Inamdar	Assistant Professor		
5	Prof. M. S. Futane	Assistant Professor		
6	Prof. S. A. Goudadi	Assistant Professor		
7	Prof. M. A. Hipparagi	Assistant Professor		
8	Prof. Girish Zulapi	Assistant Professor		
9	Prof. P. M. Kokatkar	Assistant Professor		
10	Shri. V. G. Badiger	Foreman		
11	Shri. A.B. Sankeshwari	Foreman		

Dr. M. M. Shivashimpi & Prof. D.N. Inamdar  
AIMSS Coordinators

Dr. S. N. Topannavar  
HOD  
Mechanical Engg.  
HIT, Nidasoshi



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AIMSS

Attendance

AY: 2023-24

Date: 19-01-2024

**Attendance Sheet**

Event: Awareness Programme on "IPR & 3D Printing"

Sem: III

R.No	STUDENT NAME	USN	Signature
1	Abhishek R Mohite	2HN22ME001	
2	Aditya A Yadav Alias Upalane	2HN22ME002	
3	Basavaraj Gharabude	2HN22ME004	
4	Bavache Sohan Santosh	2HN22ME005	
5	Darshan Kavalikatti	2HN22ME006	
6	Laxmi Rama Gulli	2HN22ME008	<i>[Signature]</i>
7	Madankumar R Malaj	2HN22ME009	<i>[Signature]</i>
8	Magdum Satej Suresh	2HN22ME010	
9	Shridhar Goudadi	2HN22ME011	<i>[Signature]</i>
10	Swapnil Sutar	2HN22ME012	
11	Swarupa Patil	2HN22ME013	<i>[Signature]</i>
12	Vaishnavi A Shirasangi	2HN22ME014	
13	Vivek Mahadev Khopade	2HN22ME016	
14	Aasim S Mulla	Diploma	<i>[Signature]</i>
15	Chetan M Desai	Diploma	<i>[Signature]</i>
16	Darshan Anil Kakati	Diploma	<i>[Signature]</i>
17	Harshal S Kabburi	Diploma	<i>[Signature]</i>
18	Izazahemad I Pyati	Diploma	<i>[Signature]</i>
19	Mantesh Kulagod	Diploma	
20	Pratiba K Desai	Diploma	
21	Praveen C Khot	Diploma	
22	Rahul Ramu Kumbar	Diploma	
23	Samiulla A Gaddekar	Diploma	
24	Sangamesh. B. Pated	Diploma	<i>[Signature]</i>
25	Shivalingayya S G	Diploma	
26	Siddharth C Piraji	Diploma	
27	Sourabh Kokitakar	Diploma	
28	Sujaykumar S Patil	Diploma	<i>[Signature]</i>
29	Vinayak A Kukade	Diploma	<i>[Signature]</i>



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*[Signature]*  
HOD  
Mechanical Engg.  
HIT, Nidasoshi



Date: 19-01-2024

## Attendance Sheet

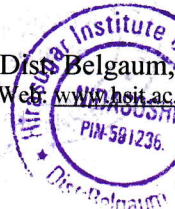
Event: Awareness Programme on "IPR & 3D Printing"

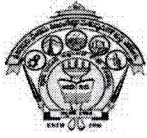
Sem: V

R.No	STUDENT NAME	USN	Signature
1	Akash Bhovi	2HN21ME001	
2	Kirti R Kambale	2HN21ME002	
3	Mallikarjun Shettennavar	2HN21ME003	
4	Abhishek Bevinakoppamath	2HN22ME400	
5	Akash R Anajapatil	2HN22ME401	
6	Akshay Gadave	2HN22ME402	
7	Amit Harari	2HN22ME403	
8	Anup S Malaj	2HN22ME404	
9	Basavaraj Balekundri	2HN22ME405	
10	Bharamu A Khanapuri	2HN22ME406	
11	Bhushan U Chougala	2HN22ME407	
12	Goutam Borgalli	2HN22ME408	
13	Goutam Bongale	2HN22ME409	
14	Kumar B Khanapuri	2HN22ME410	
15	Mallikarjun I Badiger	2HN22ME411	
16	Manikhant Sirasangi	2HN22ME412	
17	Manjunath Mugali	2HN22ME413	
18	Manoj Giddali	2HN22ME414	
19	Nagaraj M Chougala	2HN22ME415	
20	Nikil Desai	2HN22ME416	
21	Prathamesh R Sansuddi	2HN22ME417	
22	Praveen S Badkar	2HN22ME418	
23	Rahul B kanade	2HN22ME419	
24	Rahul V Raikar	2HN22ME420	
25	Rahul R Khanapur	2HN22ME421	
26	Raju V Yaduri	2HN22ME422	
27	Ramagouda Patil	2HN22ME423	
28	Sachin B Mali	2HN22ME424	
29	Sachin B Karoshi	2HN22ME425	
30	Sagar Heggannavar	2HN22ME426	
31	Sameer M Makandar	2HN22ME427	
32	Sandeep Heddurshetti	2HN22ME428	

HOD

Mechanical Engg.  
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Attendance

AY: 2023-24

33	Sangamesh Holeyachi	2HN22ME429	
34	Sanket S Honashetti	2HN22ME430	<i>SH</i>
35	Shivashankar Sankannavar	2HN22ME432	
36	Sohil A Mulla	2HN22ME433	
37	Someshwar Madyali	2HN22ME434	
38	Supreet G Heddurshetti	2HN22ME435	
39	Venkatesh P Koli	2HN22ME436	
40	Vinay M Taradale	2HN22ME437	<i>Vinay</i>
41	Vinay S Hiremath	2HN22ME438	
42	Vinod D Khot	2HN22ME439	
43	Vivek Nandagavi	2HN22ME440	<i>Vivek</i>
44	Vrashabh R Galagi	2HN22ME441	<i>Vrashabh</i>

*HOD*  
Mechanical Engg.  
HIT, Nidasoshi



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AY: 2023-24

Ref. No: MED/HSIT/NDS/2023-24/23

Date: 19-01-2024

### Certificate of Appreciation

We are extremely pleased to have you as a Resource Person for technical talk on “**IPR & 3D Printing**” held on 19<sup>th</sup> January 2024 at our Department.

Your words have motivated our staff and students.

Received



Dr. S. N. Topannavar

HOD

Mechanical Engg.  
HIT, Nidasoshi

To,

Dr. Amith Gadagi

Associate Professor

Mechanical Engineering Department

KLE Technological University's

Dr. M S Sheshgiri College of Engineering and Technology, Belagavi



## Online Feedback Sheet Summary

**Activity Name: Technical Talk on "IPR and 3-D Printing"**

Timestamp	Name	USN	Mobile number	E mail	Sem.	1. Inclusive of Relevancy/National Interest in the Activity/trained content.	2. Applicable/Helpful to build and lead the better career after the graduation	3. Rate the resource person/s/Competency in the activity/event	4. Your development/+ve change during the activity/event	5. Overall motivation and inspiration received during the activity period	Total Points
1/19/2024 13:48:22	Abhishek Bevinakoppamath	2HN22ME400	8197360660	abhibevinakoppamath@gmail.com	V	10	10	10	10	10	50
1/19/2024 13:53:43	Someshwar Madyali	2HN22ME434	7337631571	sommadyali@gmail.com	V	10	10	10	10	10	50
1/19/2024 13:55:09	Sandeep Heddurshetti	2HN22ME428	9008694559	sandeepheddurshetti2910@gmail.com	V	9	10	10	10	10	49
1/19/2024 13:59:24	Swarupa Patil	2HN22ME013	9741348443	swarupapatil424@gmail.com	III	6	7	7	8	9	37
1/19/2024 14:09:57	Chetan Desai	-	7353955292	chetandesaiiaa@gmail.com	III	9	9	9	9	9	45
1/19/2024 14:13:26	Rahul Khanapur	2HN22ME421	8431600923	rahulkhanapur38@gmail.com	V	9	7	9	8	9	42
1/19/2024 14:15:19	Sohil Mulla	2HN22ME433	7406238192	mullasohil76@gmail.com	V	10	9	7	6	10	42
1/19/2024 14:19:57	Kirti Ramesh Kamble	2HN21ME002	8748066366	kirtikamble1155@gmail.com	V	10	10	9	9	10	48
1/19/2024 14:46:25	Mallikarjun Shettennavar	2HN21ME003	8073117211	shettennavarmallikarjun07@gmail.com	V	6	5	7	6	7	31
1/19/2024 14:58:36	Sanket	2HN22ME430	9449979762	sanketsonu18@gmail.com	V	9	10	10	10	10	49
1/19/2024 15:19:10	Vrashabh Galagi	2HN22ME441	7483167177	vrashabhgalagi8@gmail.com	V	10	10	10	10	10	50
1/19/2024 16:08:11	Anup Malaj	2HN22ME404	6363093072	anupmalaj7@gmail.com	V	8	9	8	9	9	43





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Feedback

AY:2023-24

1/19/2024 16:54:51	Goutam Bongale	2HN22ME409	8310497589	bongalegoutam@gmail.com	V	10	10	10	10	10	50
1/19/2024 17:09:56	Vinay S Hiremath	2HN22ME438	9482937683	vinayhiremath7064@gmail.com	V	10	10	10	10	10	50
1/19/2024 17:11:50	Bhushan Chougala	2HN22ME407	8792332423	chougalahushan76@gmail.com	V	10	10	10	10	10	50
1/19/2024 17:53:08	Vaishnavi Shirasangi	2HN22ME014	7411727197	vaishushirasangi03@gmail.com	3	8	8	8	8	8	40
1/19/2024 18:51:57	Akshay Gadave	2HN22ME402	8880002203	akshaynesari123@gmail.com	V	10	10	10	10	10	50
1/19/2024 18:52:29	Vivek Nandagavi	2HN22ME	8431817859	Vivek7829nandagavi@gmail.com	V	10	10	10	10	10	50
1/19/2024 19:05:39	Vinod	2HN22ME439	6360643422	vkhot280@gmail.com	V	10	10	10	10	10	50
1/19/2024 21:52:37	Praveen Badakar	2HN22ME418	7349427523	pbk657637@gmail.com	V	10	10	10	10	10	50
1/19/2024 21:56:20	Manoj	2HN22ME414	9731638562	manojgiddali4@gmail.com	V	1	1	1	1	1	5
1/19/2024 22:05:00	Goutam Boragalli	2HN22ME408	8746998155	goutamboragalli143@gmail.com	V	1	1	1	1	1	5
1/19/2024 22:05:15	Laxmi Rama Gulli	2HN22ME008	9036152373	laxmirgulli@gmail.com	III	7	7	7	7	7	35
1/19/2024 22:05:32	Akash Patil	2HN22ME401	9108745577	akashrajanaje3@gmail.com	V	10	10	10	10	10	50
1/19/2024 22:24:09	Akash Bhovi	2HN21ME001	9880078981	akbhovi45@gmail.com	V	9	10	10	9	8	46
1/20/2024 6:38:26	Manjunath Mugali	2HN22ME413	8431426087	manjunathmugali8@gmail.com	V	10	10	10	9	10	49
1/20/2024 9:11:06	Sachin Mali	2HN22ME424	9113908396	malisachin801@gmail.com	V	9	9	9	9	9	45
1/22/2024 12:08:14	Mallikarjun I Badiger	2HN22ME411	9591853912	mallikarjunbadiger055@gmail.com	V	10	10	10	10	10	50
<b>Total Points</b>										1211	

  
Mr. Akash R. Anajepatil  
AIMSS Secretary

  
Dr. M. M. Shivashimpi & Prof. D. N. Inamdar  
AIMSS-Coordinator/s

  
Dr. S. N. Topannavar  
HOD

**Mechanical Engg.**  
HIT, Nidasoshi

Nidasoshi, Taq: Hukkeri, Dist: Belgaum, Karnataka - 591 236  
Phone:+91-8333-278887, Fax:278886, Web:www.hsit.ac.in, Mail:hod.mech@hsit.ac.in



## Impact Analysis of PO's Attainment

<b>Activity Name:</b> Technical Talk on "IPR and 3-D Printing"	<b>Grand Total Points given by all respondents (T):</b> 1211
<b>No. of Respondents (N):</b> 28	<b>Impact Coefficient (IC=0-1):</b> Here, $IC = T / (N * 50) = 1211 / (28 * 50) = 0.865$

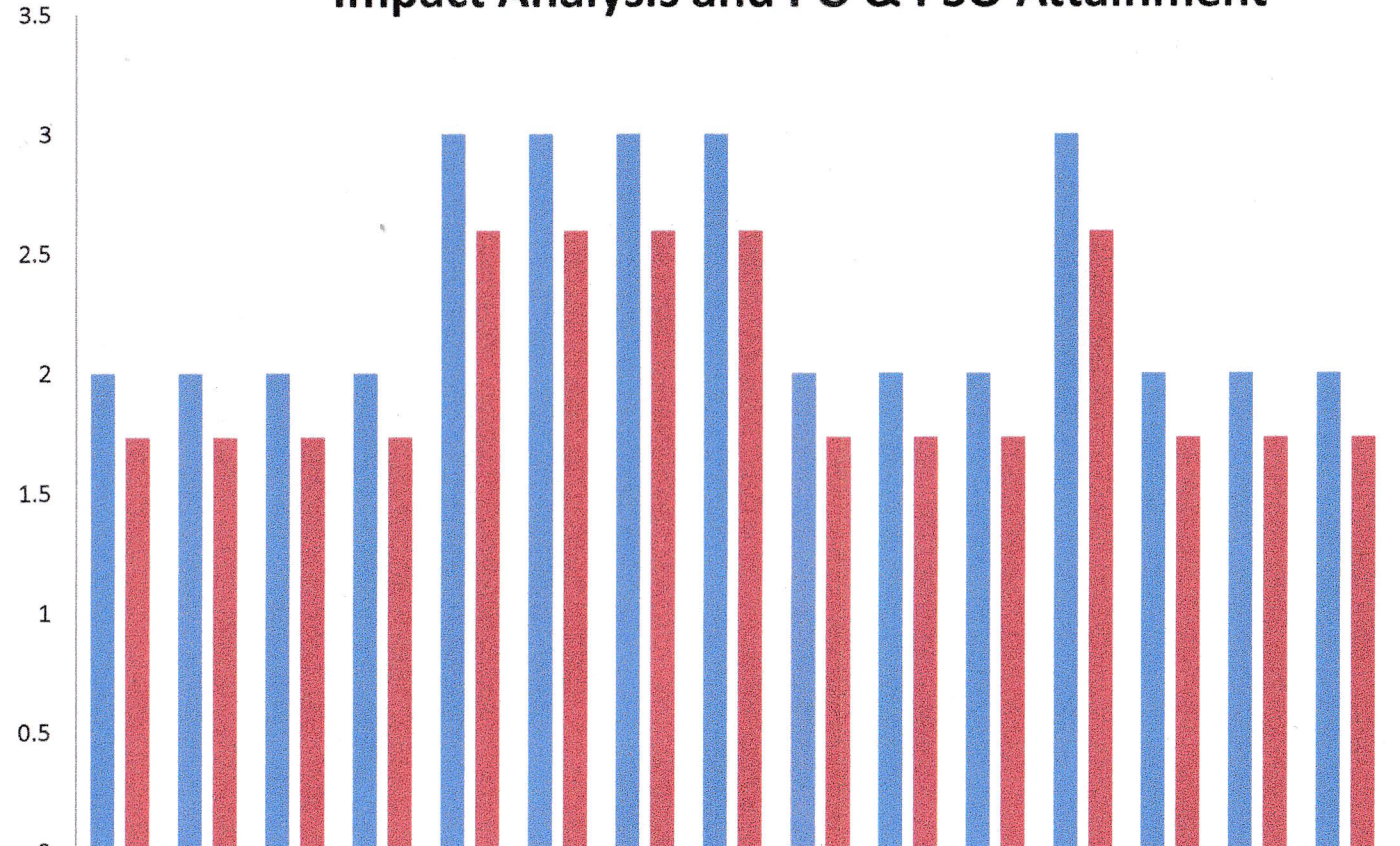
Mapped PO/s	Weightage Assigned (1/2/3)	PO Attained/Activity Contribution to the respective PO (IC*Weightage Assigned)	Mapped PSO/s	Weightage Assigned (1/2/3)	PSO Attained/Activity Contribution to the respective PSO (IC*Weightage Assigned)
PO1	2	1.73	PSO1	2	1.73
PO2	2	1.73	PSO2	2	1.73
PO3	2	1.73	PSO3	2	1.73
PO4	2	1.73			
PO5	3	2.595			
PO6	3	2.595			
PO7	3	2.595			
PO8	3	2.595			
PO9	2	1.73			
PO10	2	1.73			
PO11	2	1.73			
PO12	3	2.595			





## Impact Analysis and PO & PSO Attainment

Weightage



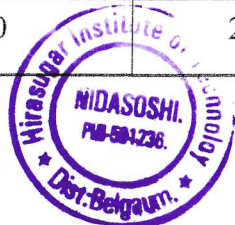
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
■ Weightage Assigned	2	2	2	2	3	3	3	3	2	2	2	3	2	2	2
■ Attained/Activity Contribution Respective PO & PSO	1.73	1.73	1.73	1.73	2.595	2.595	2.595	2.595	1.73	1.73	1.73	2.595	1.73	1.73	1.73



**Justification:**

**1. Justification for Mapping of POs & PSOs**

Mapped POs/ PSOs	Weightage	Justification
PO1	2	This activity addresses moderately engineering institutions being a hub of research and development activity and has a huge potential to create new intellectual property as well as the application of engineering specialization in technology.
PO2	2	This activity addresses moderately to investigate the complex engineering problems using 3D printing technology in the manufacturing domain.
PO3	2	This activity addresses moderately helps to create model design and solve complex engineering problems to meet environmental aspects.
PO4	2	This activity addresses moderately helps to use research-based 3D printing knowledge and technology to insist on manufacturing the final prototype.
PO5	3	This activity educates substantially to assist in modeling and design of mechanical engineering components by using modern tools and techniques to save the time and cost of the final manufacturing product.
PO6	3	This activity highlights substantially the highlights intellectual property protection is critical to fostering innovation. Without the protection of ideas, businesses and individuals would not reap the full benefits of their inventions and would focus less on research and development. Also addresses consequent reduction of wastes and thus, there is no requirement of reducing, reusing, and recycling the waste materials in 3D printing technology.
PO7	3	This activity highlights substantially intellectual property might relate to several aspects of a country's social and economic development. Its impact can be felt in industrial, health, education, nutrition, biodiversity, and cultural policies.
PO8	3	This activity substantially addresses respect for the author's achievement, respect for property interests, and recognition of the social claim to fruits of intellectual activity and the social right of free access to information.
PO9	2	This activity addresses moderately intellectual property protection is critical to fostering innovation. Without the protection of ideas, businesses and individuals would not reap the full benefits of their inventions and would focus less on research and development.
PO10	2	This activity addresses intangible asset for a business that includes ideas, inventions, creations, and secrets that give a competitive advantage in the marketplace.





PO11	2	This activity represents moderately a significant part of developed and developing economies, in terms of Gross domestic product, employment, tax revenues, and strategic importance. IPR also promotes foreign direct investment and technology transfers in developed and developing countries.
PO12	3	This activity highlights substantially designing, manufacturing and testing a customized mechanical component in time to enhance the speed of the manufacturing process and also highlights a system that manages intangible creations of the human intellect and primarily encompasses copyrights, patents, and trademarks.
PSO1	2	This activity addresses moderately the application of engineering knowledge to solve social and industries problems in 3D printing technology.
PSO2	2	This activity address moderately helps to design and analyze mechanical systems using 3D printing technology software.
PSO3	2	This activity provides moderately exposure to the current issues of prototyping parts to performance products and the developments happening in 3D printing technology.


- The activity mapped with PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8, PO9, PO10, PO11 and PO12 was found satisfactory with attainment levels of 1.73, 1.73, 1.73, 1.73, 2.595, 2.595, 2.595, 2.595, 1.73, 1.73, 1.73 and 2.595 against the mapped values during the impact analysis.
- The activity mapped with PSO1, PSO2 and PSO3 was found satisfactory with attainment levels of 1.73, 1.73 and 1.73 against the mapped values during the impact analysis.

**Conclusion:** The activity organized to fulfill the program outcomes engineering knowledge, problem analysis, design/development of solutions, conduct investigations of complex problems, modern tool usage, engineer and society, environment and sustainability, ethics, individual and team work, communication, project management and finance and lifelong learning and PSO1, PSO2 and PSO3 has mitigated the gap identified satisfactorily to some extent.

**Future Suggestions:** This activity highlights awareness about IPR benefits for our students to encourage entrepreneurship for national growth of the economy. Activity can be extended through conducting future workshops for our students to create interest in the understanding of basic concepts of 3D printing technology and its hands-on software training programs and contribute to their trained skills in manufacturing industries.

  
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