



# SRI VENKATESWARA

## COLLEGE OF ENGINEERING AND TECHNOLOGY

Thirupachur-631203, Tiruvallur TK & DT  
Approved by AICTE New Delhi & Affiliated to Anna University, Chennai  
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### 18MECHVAC01 - 3D PRINTING APPLICATIONS

### EVENT REPORT

**Name of the Course: 3D PRINTING APPLICATIONS**

**Name of the Instructor:** Mr. M. Parivallal, Assistant Professor, Indira Institute of Engineering and Technology

**Year and Branch:** II & III - MECHANICAL ENGINEERING

**Duration of Course:** 32 Hrs (25.03.2019 to 30.03.2019)

#### SUMMARY OF THE EVENT:

The Course was inaugurated on **25.03.2019** at 8.30 am by our respectable Principal and HOD. As per the Course plan session was started and went smooth for the Remaining days. On the last day **30.03.2019** by 3.30 pm the course was Completed Successfully.

During the Six Days of the program Students were participated with enthusiasm and they finally gained a knowledge on **"3D Printing Application"**

#### ASSESSMENT MODE:

No of Students Enrolled: 151

Scheme of Exam: Offline

No of Students appeared: 151

No of Students Passed: 151

Date of Exam: 30.03.2019

#### OUTCOME:

This course has helped the students have basic Understanding of Manufacturing by 3D methods. In which they discussed the procedure and process of three-dimensional Manufacturing. This helped the students to develop their analytical mind and Knowledge.

  
COORDINATOR

(Mr.S.Rajasekar)



  
HOD/MECHANICAL

(Mr.M.Vinoth)

  
PRINCIPAL

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### 18MECHVAC01 - 3D PRINTING APPLICATIONS

#### TEST QUESTION

- Additive manufacturing uses much less material than other subtractive Manufacturing processes.
  - True
  - False
- Which of the following is typically the cheapest type of 3D printer?
  - FDM
  - SLA
  - Powder-based
  - SLM
- SLA printing uses a plastic strand that's pushed through a heated nozzle.
  - True
  - False
- 3D printing technology is expanding and is now able to print metal parts.
  - True
  - False
- Which of the following is typically the most expensive type of 3D printer?
  - SLA
  - SLM
  - FDM
  - None of the above
- FDM stands for fused deposition modelling.
  - True
  - False
- SLA stands for stereo lighting amplification
  - True
  - False



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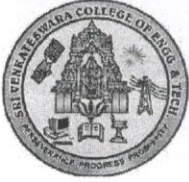
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8. FDM printers can print multiple materials at one time.
- a) **True**
  - b) False
9. Which type of printer uses an enclosed build area?
- a) **SLA**
  - b) SLS
  - c) MDS
  - d) FDM
10. What printer melts metal?
- a) SLA
  - b) **SLS**
  - c) MD S
  - d) FDM
11. SLA printer's package material is in a ...
- a) Chain
  - b) Spool
  - c) **Cartridge**
  - d) None of the above
12. Which type of 3D printer uses a pool of resin to create the solid part?
- a) FDM
  - b) **SLA**
  - c) SNL
  - d) None of the above
13. What material is not used in 3D printing?
- a) Nylon
  - b) ABS
  - c) PLA
  - d) **PVC**



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14. When printing a part on an FDM printer, the model should be oriented such that the Layers are parallel to the direction of stresses that will be placed on the part.
- a) **True**
  - b) False
15. Which should be considered when orienting the part on the build plate in the slicing Software?
- a) Holes should always be printed horizontally
  - b) The footprint of the part should be as small as possible
  - c) **You should minimize the number of overhangs**
  - d) All of the above
16. Which of the following does NOT influence how refined the 3D printed part will be?
- a) Layer thickness
  - b) Using support material
  - c) Part orientation
  - d) **All the above**
17. Which file type is most commonly exported from CAD software?
- a) SLDRIT
  - b) JPG
  - c) **STL**
  - d) X3G
18. FDM build plates are prepared by ...
- a) Putting hair spray on it
  - b) Putting a layer of painters tape on it
  - c) Putting a glue stick layer on it
  - d) **All the above**
19. What does SLS stand for?
- a) **Selective laser sintering**
  - b) Selective lithographic solution
  - c) Separated light sintering
  - d) None of the above



  
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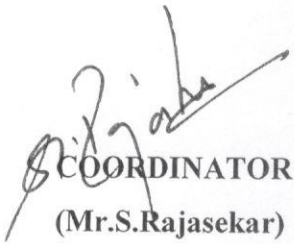
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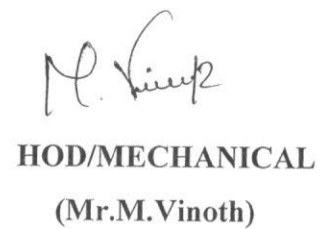
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20. Additive mfg. uses much less material than other subtractive mfg. processes

- a) True
- b) False

  
COORDINATOR  
(Mr.S.Rajasekar)

  
HOD/MECHANICAL  
(Mr.M.Vinoth)



  
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### 18MECHVAC01 - 3D PRINTING APPLICATIONS

Student Reg. No. & Name: 112415114054 & Mahendar.M  
Sem & Year: 08 & IV<sup>th</sup> year

Date: 30-03-2019

1. Additive manufacturing uses much less material than other subtractive Manufacturing processes.

a) True

b) False

2. Which of the following is typically the cheapest type of 3D printer?

a) FDM

b) SLA

c) Powder-based

d) SLM

3. SLA printing uses a plastic strand that's pushed through a heated nozzle.

a) True

b) False

4. 3D printing technology is expanding and is now able to print metal parts.

a) True

b) False

5. Which of the following is typically the most expensive type of 3D printer?

a) SLA

b) SLM

c) FDM

d) None of the above

6. FDM stands for fused deposition modelling.

a) True

b) False

7. SLA stands for stereo lighting amplification

a) True

b) False

18  
20



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8. FDM printers can print multiple materials at one time.  
a) True ✓  
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b) SLS  
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a) SLA  
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11. SLA printer's package material is in a ...  
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b) Spool ✓  
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d) None of the above
12. Which type of 3D printer uses a pool of resin to create the solid part?  
a) FDM  
b) SLA ✓  
c) SNL  
d) None of the above
13. What material is not used in 3D printing?  
a) Nylon  
b) ABS ✓  
c) PLA  
d) PVC
14. When printing a part on an FDM printer, the model should be oriented such that the layers are parallel to the direction of stresses that will be placed on the part.  
a) True ✓  
b) False



  
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15. Which should be considered when orienting the part on the build plate in the slicing Software?
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  - c) STL
  - d) X3G
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  - c) Putting a glue stick layer on it
  - d) All the above
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  - b) Selective lithographic solution
  - c) Separated light sintering
  - d) None of the above
20. Additive mfg uses much less material than other subtractive mfg processes
- a) True
  - b) False



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### 18MECHVAC01 - 3D PRINTING APPLICATIONS

Course Code	18MECHVAC01
Name of the Course	3D PRINTING APPLICATIONS
Duration of the Course	32 HOURS
Academic Year	2018-19
Period of the Course	25.03.2019 to 30.03.2019

### STUDENT EVALUATION SHEET

S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
1	II	112417114001	AKASH S	32	80
2	II	112417114002	AKILAN A	32	80
3	II	112417114003	ARAVINDHAN K	32	80
4	II	112417114004	ARUNKUMAR N	32	80
5	II	112417114005	ASHOK M	32	90
6	II	112417114006	BASKAR R	32	95
7	II	112417114007	BENU RICHARD P	32	95
8	II	112417114008	BHARATHRAJ M	32	95
9	II	112417114009	BHARATH RAJ N	32	99
10	II	112417114010	BHUVANESWARI V	32	85
11	II	112417114011	C.BHUVANESHWARAN	32	85
12	II	112417114012	DEEPAK J	32	90
13	II	112417114013	DHANUSH K	32	90
14	II	112417114014	DHEENA G	32	80
15	II	112417114015	DHUNUSHWARAN R	32	85
16	II	112417114016	DILLIBABU U	32	85
17	II	112417114017	DINESH M	32	80
18	II	112417114018	DIVAKARAN R	32	80
19	II	112417114019	ELANGO VAN S	32	80
20	II	112417114020	GANESH V	32	95
21	II	112417114022	GOWTHAM F	32	95



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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
22	II	112417114024	HARIHARAN B	32	80
23	II	112417114025	HARIHARAN M	32	80
24	II	112417114027	HARI PRASAD J	32	85
25	II	112417114028	HARISH KUMAR K	32	85
26	II	112417114029	JABANESAN M	32	85
27	II	112417114030	JAGADISAN D	32	90
28	II	112417114031	JAIGANESH V	32	90
29	II	112417114032	JANARTHANAN D	32	90
30	II	112417114033	JAYA PRAKASH N	32	90
31	II	112417114034	JAYA PRAKASH R	32	80
32	II	112417114035	KAMALESH M	32	85
33	II	112417114036	KANISHKAR K	32	85
34	II	112417114037	KARAN M	32	95
35	II	112417114038	KISHORE KUMAR M	32	95
36	II	112417114039	KRISHI KESA R	32	95
37	II	112417114040	KRISHNA KUMAR V	32	95
38	II	112417114041	MADHIYAN D	32	90
39	II	112417114042	MANIKANDAN N	32	90
40	II	112417114043	MRITHYUNJEYAN V	32	85
41	II	112417114044	MUGILAN A	32	80
42	II	112417114045	NAGARAJ A	32	80
43	II	112417114046	NAGARAJAN M	32	95
44	II	112417114047	NANDAKUMAR M	32	95
45	II	112417114048	NANDHA KUMAR M	32	95
46	II	112417114049	NAVEEN Y R K	32	90
47	II	112417114050	NAVEEN KUMAR R	32	90
48	II	112417114051	NAVEEN KUMAR S	32	95
49	II	112417114052	NITHISH KUMAR J M	32	85
50	II	112417114053	PARTHIBAN B	32	85



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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
51	II	112417114054	PARTHIBAN T	32	80
52	II	112417114056	PRABU M	32	80
53	II	112417114057	PRADEEPRAJ R	32	90
54	II	112417114058	PRASHANTH E	32	85
55	II	112417114060	RAJENDIRA PRASATH P	32	85
56	II	112417114061	RAJKUMAR N	32	95
57	II	112417114062	RAJKUMAR.S	32	95
58	II	112417114063	RAKKI.G	32	80
59	II	112417114065	RAMYA.A. L	32	80
60	II	112417114066	RANJITH KUMAR.S	32	80
61	II	112417114067	RICHARD RAJ E	32	85
62	II	112417114068	ROHITHKUMAR.V	32	90
63	II	112417114069	SAKTHI.D	32	90
64	II	112417114070	SARATH KUMAR.D	32	90
65	II	112417114071	SARAVANAN B	32	90
66	II	112417114072	SASI KUMAR.R	32	80
67	II	112417114073	SONIYA.M	32	80
68	II	112417114074	STEPHEN RAJ C	32	85
69	II	112417114075	SUBASH.R	32	100
70	II	112417114076	SUNIL GANDHI G	32	95
71	II	112417114077	SUNIL KUMAR D	32	95
72	II	112417114078	SURENKUMAR.R	32	80
73	II	112417114080	SURYA.I	32	80
74	II	112417114081	TAMILARASAN.S	32	95
75	II	112417114082	TAMILSELVAN.S	32	90
76	II	112417114083	TAMILVENDAN.M	32	90
77	II	112417114084	VALLARASU C R	32	85
		112417114085	VIDYASAGAR M	32	85
		112417114087	VIGNESH.S	32	85



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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
80	II	112417114088	VIJAYA SARATHI.S	32	90
81	II	112417114089	VINOTHKUMAR.H	32	90
82	II	112417114090	YOGESHWARAN.D	32	80
83	II	112417114091	YOKESH R	32	80
84	II	112417114092	YUKESH.B	32	85
85	II	112417114093	YUVAN SHANKAR RAJ.V	32	85
86	II	112417114301	AABALE B	32	90
87	II	112417114302	ALAGUPANDI P	32	95
88	II	112417114303	ARAVINDAN R	32	95
89	II	112417114305	DINESH BABU B	32	95
90	II	112417114306	GOKULRAJ I	32	95
91	II	112417114309	HEMANATHAN S	32	95
92	II	112417114310	JAGAN V	32	80
93	II	112417114311	JOHN PHILIPS.K	32	80
94	II	112417114312	KINGSTON.P	32	80
95	II	112417114313	MAHARASAN.R	32	85
96	II	112417114314	MOHAN.Y	32	85
97	II	112417114315	MUGESH L	32	85
98	II	112417114316	MUKESH M	32	90
99	II	112417114318	PRASANTH S	32	90
100	II	112417114319	PRAVEEN.T	32	85
101	II	112417114320	PRAVEEN V	32	95
102	II	112417114321	PRAVEEN KUMAR M	32	95
103	II	112417114322	PREMKUMAR.E. S	32	80
104	II	112417114323	RAJA SEKAR.S. R	32	80
105	II	112417114324	RAJESH.R	32	90
106	II	112417114325	RAJITH RAMAKRISHNAN	32	90
	II	112417114326	RAMU.C	32	90
	II	112417114328	SANTHOSH.K	32	85



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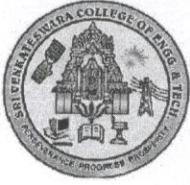
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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
109	II	112417114329	SUGUMAR.K	32	95
110	II	112417114330	SURYA.S	32	95
111	II	112417114332	TAMILSELVAN.J	32	80
112	II	112417114333	TAMIZHARASAN.M	32	80
113	II	112417114334	THAMIZH SELVAN.K	32	85
114	II	112417114335	VENKAT RAMANA.G	32	90
115	II	112417114336	VIGNESH.E	32	90
116	II	112417114337	VIGNESH.K. S	32	90
117	II	112417114338	VIJAY.K	32	90
118	II	112417114339	VINAYAGAMOORTHY.G	32	85
119	II	112417114340	YUVARAJ.S	32	85
120	II	112417114341	PRAKASH.S	32	85
121	II	112417114343	MADHU.R	32	80
122	III	112416114001	AKASH.D	32	80
123	III	112416114002	ANAND.D	32	80
124	III	112416114003	ANWAR BASHA.G	32	90
125	III	112416114004	ARJUN KRISHNA	32	90
126	III	112416114005	ARUN.V	32	95
127	III	112416114006	ARUN KUMAR.S	32	95
128	III	112416114007	ARUN RAJ.R	32	95
129	III	112416114008	ASURAN.K	32	80
130	III	112416114009	BALAJI.V	32	80
131	III	112416114012	BHARATHVAJ.M	32	85
132	III	112416114014	DEEASRIDHAR.B	32	90
133	III	112416114015	DON VINCENT.J	32	90
134	III	112416114016	EHILARASAN.T	32	85
135	III	112416114017	FRANKLIN SELVAKUMAR.S	32	85
136	III	112416114018	GOWTHAM.K	32	80
137	III	112416114019	GUNANITHI.	32	85



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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
138	III	112416114020	HARIHARAN.S	32	100
139	III	112416114021	HARINATH.T	32	85
140	III	112416114022	JAFFAR ALI.N	32	85
141	III	112416114023	JAYAPRAKASH.R	32	90
142	III	112416114026	KARTHICK.B	32	95
143	III	112416114028	KARTHICK.N	32	90
144	III	112416114029	MANIKANDAN.M	32	90
145	III	112416114030	MANNAR NAGARAJU	32	85
146	III	112416114031	NAGENDRAN.M	32	85
147	III	112416114032	NAVEEN SUNDAR SINGH.M	32	85
148	III	112416114033	NIRMAL KUMAR.G	32	85
149	III	112416114034	PARTHIBAN.S	32	80
150	III	112416114035	PAVITHRAN OMEZHILAN	32	90
151	III	112416114036	POOVARASAN.S	32	95

  
COORDINATOR  
(Mr.S.Rajasekar)

  
HOD/MECHANICAL  
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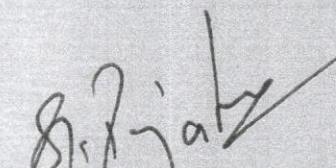
## DEPARTMENT OF MECHANICAL ENGINEERING CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms KARTHICK B. (112416114026).....

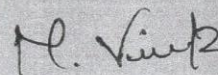
Department of Mechanical Engineering has successfully completed Value

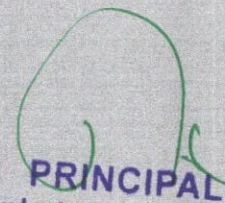
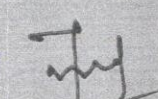
Added Course titled ' 3D PRINTING APPLICATIONS ' held from

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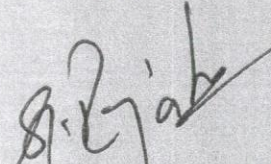
### CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms POOVARASAN.S.(112416114036.).....

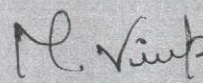
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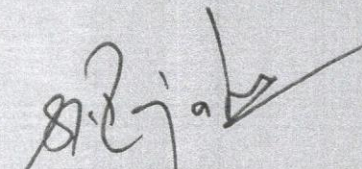
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This is to certify that Mr/~~Ms~~ **JAEFFAR...ALI...N... (112416114022).....**

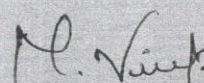
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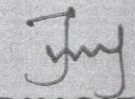
  
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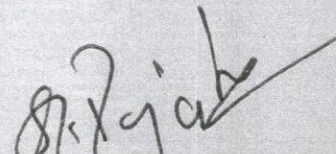
### CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms **A.N.A.N.D.:D.(112416114002)**.....

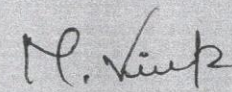
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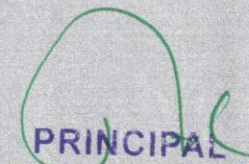
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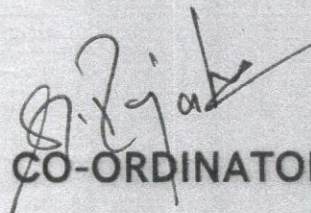
### CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms PRASANTH.S.(112417114318).....

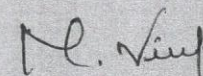
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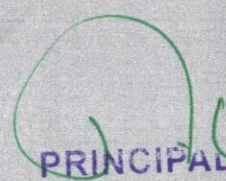
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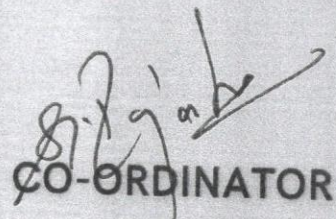
### CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms **HARI PRASAD J (112417114027)**.....

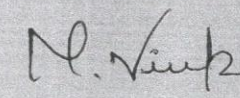
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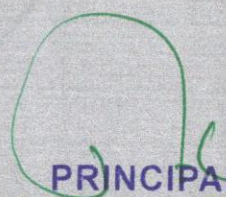
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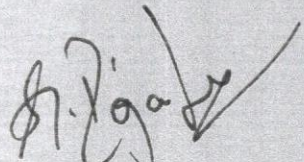
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This is to certify that Mr/Ms **DEEPAK:J.(112417114012)**.....

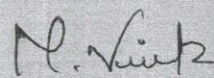
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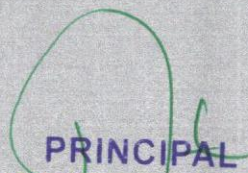
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