



# SRI VENKATESWARA

## COLLEGE OF ENGINEERING AND TECHNOLOGY

Thirupachur - 631 203, Thiruvallur TK & DT  
Approved by AICTE New Delhi & Affiliated to Anna University, Chennai  
(A Telugu Minority Institution)

### 21MECHVAC01 - MICRO AND NANO MACHINING

#### EVENT REPORT

**Name of the Course: MICRO AND NANO MACHINING**

**Name of the Instructor: Dr.M.V. Muralidharan, Assistant Professor, Crescent Engineering College**

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

**Duration of Course: 32 Hrs (25.10.2021 to 30.10.2021)**

#### **SUMMARY OF THE EVENT:**

The Course was inaugurated on **25.10.2021** 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 **30.10.2021** 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 “**Micro and Nano Machining**”

#### **ASSESSMENT MODE:**

No of Students Enrolled:123

Scheme of Exam: Offline

No of Students appeared:123

No of Students Passed:123


Date of Exam: **30.10.2021**

#### **OUTCOME:**

- The student can identify different areas of Micro and Nano Machining
- Can find the applications of all the areas in Industries.

  
**COORDINATOR**  
(Mr .M.Karthikeyan)



  
**HOD / MECHANICAL**  
(Mr.M.Vinoth)

  
**PRINCIPAL**  
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### 21MECHVAC01 - MICRO AND NANO MACHINING

#### TEST QUESTIONS

1. Micro machining processes (MMPs) are used to increase selectivity, accuracy, performance, etc. parameters.

- a) True
- b) False

2. Choose the odd one out.

- a) micro-turning
- b) micro-milling
- c) micro-EBM
- d) **micro-grinding**

3. Holes up to \_\_\_\_\_ deep can be drilled without using AJM process.

- a) 10 nm
- b) 45 mm
- c) **66  $\mu$ m**
- d) 100  $\mu$ m

4. Catalysts functionalized with siloxane anchors can be attached to  $\text{SiO}_2$  nano particles via [Si]-O-M links involving surface silanol groups. This arrangement benefits in \_\_\_\_\_

- a) Achieving better catalytic yield
- b) Relatively easy Separability of catalyst
- c) **Enhancing reactivity of Nanoparticles**
- d) Decreasing the reaction of a reaction

5. Which one of the following is an example for semiconducting nanowires?

- a) Nickel
- b) Platinum
- c) Silicon
- d) **All of the above**

6. The absorption and adsorption of molecules are fast and high in \_\_\_\_\_ materials?

- a) **Nano materials**
- b) Bulk materials
- c) Both a and b
- d) None of the above

7. Which one of the following is an example for thermal properties of nanostructure?

- a) Melting temperature
- b) **Absorption and scattering of light**
- c) Both a and b
- d) None of the above

8. In which year does the scanning tunneling microscopy was invented?

- a) 1999



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- b) 2003  
c) 1934  
d) **1982**
9. Who discovered nanotubes?  
a) Gerd Binning  
b) Alex Zettl  
c) PM Ajayan  
d) **Sumio Iijima**
10. Which one of the following is an example for electrical properties of nanostructure?  
a) Melting temperature  
b) **Tunnelling current**  
c) Both a and b  
d) None of the above
11. Which one of the following used in solar cells?  
a) Carbon nanotubes  
b) Nanorods  
c) **Nanobots**  
d) None of the above
12. What is the standard form of SEM?  
a) **Scanning Electron Microscope**  
b) Scanning Electrode Microscope  
c) Scanning Electrical Microscope  
d) None of the above
13. Which one of the following is an example for insulating nanowires?  
a)  $\text{SiO}_2$   
b) InP  
c) Si  
d) All of the above
14. The NEMS/MEMS, respirocytes, and microarrays are types of \_\_\_\_\_?  
a) Nanodevices  
b) **Nanocrystalline nanoparticle**  
c) Nanostructured nanoparticle  
d) None of the above
15. The size of polymeric nanoparticle nanosystem is around \_\_\_\_\_?  
a) 1-300 cm  
b) 1-500 mm  
c) **10-1000 nm**  
d) None of the above
16. The diameter of the cap can be measured in terms of \_\_\_\_\_



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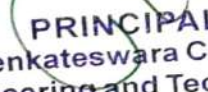
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- a) 1 mm  
b) <10 nm  
c) **100 micro**  
d) None of the above
17. The nanostructures are categorized into \_\_\_\_\_ types according to their dimensions?  
a) One  
b) **Two**  
c) Three  
d) Four
18. Which one of the following is an example of zero-dimensional nanostructure?  
a) Nanoparticles  
b) **Nanorods**  
c) Nanotubes  
d) All of the above
19. The particle size range of nano alginate is around \_\_\_\_\_ nanometers?  
a) **1-2**  
b) 4-9  
c) 4.6-9  
d) 53.5-63.1
20. The absorption and adsorption of molecules are slow and low in \_\_\_\_\_ materials?  
a) Nanomaterials  
b) **Bulk materials**  
c) Both a and b  
d) None of the above

  
**COORDINATOR**  
(Mr .M.Karthikeyan)

  
**HOD / MECHANICAL**  
(Mr.M.Vinoth)



  
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**21MECHVAC01 - MICRO AND NANO MACHINING**

**TEST QUESTIONS**

Student Reg. No. & Name: 112420114348 \$ P. Mustali

Sem & Year: 03 \$ II

Date: 30/10/2021

1. Micro machining processes (MMPs) are used to increase selectivity, accuracy, performance, etc. parameters.

- a) True
- b) False

2. Choose the odd one out.

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- a) 10 nm
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- a) Melting temperature
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- c) Both a and b

19  
20



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d) None of the above

8. In which year does the scanning tunneling microscopy was invented?

- a) 1999
- b) 2003
- c) 1934
- d) 1982

9. Who discovered nanotubes?

- a) Gerd Binning
- b) Alex Zettl
- c) PM Ajayan
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- a) Nanodevices
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- c) Nanostructured nanoparticle
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15. The size of polymeric nanoparticle nanosystem is around \_\_\_\_\_



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& Tatyasaheb Kore Institute of Technology

- a) 1-300 cm  
b) 1-500 mm  
c) 10-1000 nm  
d) None of the above
16. The diameter of the hair can be measured in terms of \_\_\_\_\_ meters?  
a) 1 mm  
b) <10 nm  
c) 100 micro  
d) None of the above
17. The nanostructures are categorized into \_\_\_\_\_ types according to their dimensions?  
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d) None of the above



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### 21MECHVAC01 - MICRO AND NANO MACHINING

Course Code	21MECHVAC01
Name of the Course	MICRO AND NANO MACHINING
Duration of the Course	32 HOURS
Academic Year	2021-22
Period of the Course	25.10.2021-30.10.2021

### STUDENT EVALUATION SHEET

S.No	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
1	II	112420114001	BRAMMAIYA.K	32	80
2	II	112420114002	CHANDIPKUMAR.K	32	85
3	II	112420114003	DINESH.D	32	90
4	II	112420114004	DURGA PRASATH.M	32	95
5	II	112420114005	EZHILARASAN	32	90
6	II	112420114006	HEMANATHAN	32	95
7	II	112420114007	KAMESHWARAN.T	32	80
8	II	112420114008	KISHORE.P	32	85
9	II	112420114009	MOHANDOSS.S	32	85
10	II	112420114010	NAGARAJ.M	32	80
11	II	112420114015	VETRIVEL.V	32	85
12	II	112420114301	ANBAZHAGAN N	32	85
13	II	112420114302	ARAVINDAN M	32	80
14	II	112420114303	ARUN KUMAR R	32	85
15	II	112420114304	ARUNKUMARAN M	32	90
16	II	112420114305	ARUN PANDIYAN K	32	95
17	II	112420114306	ARUNRAJ P	32	90



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S.No	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
18	II	112420114307	ASHWATH RAJ R	32	85
19	II	112420114308	BALAJI K	32	85
20	II	112420114309	BILAL MOHAMED A	32	95
21	II	112420114310	CHANDRA SEKAR S	32	90
22	II	112420114311	DEVARAJ M	32	80
23	II	112420114312	DHANASEKAR S	32	80
24	II	112420114313	DHIVAKAR N	32	80
25	II	112420114314	DINESH R	32	80
26	II	112420114315	DINESHKUMAR M	32	85
27	II	112420114316	DURAI MURUGAN E	32	85
28	II	112420114317	FAHIM K	32	85
29	II	112420114318	GANESH ARAVINDAN D	32	90
30	II	112420114319	GNANAPRAKASH D	32	90
31	II	112420114320	GOKULAN K	32	90
32	II	112420114321	GOKULNATH CM	32	80
33	II	112420114322	GOPINATH P	32	80
34	II	112420114323	GOPINATH T	32	80
35	II	112420114324	GOWTHAM P	32	95
36	II	112420114325	GUNASEKAR R	32	95
37	II	112420114326	GUNASEKARAN M	32	90
38	II	112420114327	GUNASEKARAN M	32	80
39	II	112420114328	HARI KRISHNAN K	32	80
40	II	112420114329	HARISH NARAYANAN S	32	90
		112420114330	JACOB K	32	90
		112420114331	JAGAN S	32	95



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S.No	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
43	II	112420114332	JAISAI B	32	80
44	II	112420114334	JAYAPRAKASH P	32	85
45	II	112420114335	JAYAPRATHAP M	32	90
46	II	112420114336	KARAN G	32	90
47	II	112420114337	KARTHICK P	32	90
48	II	112420114338	KARTHICK R	32	90
49	II	112420114339	KARTHICK R	32	85
50	II	112420114340	KIRUBAIRAJ S	32	85
51	II	112420114341	LOGESH D	32	85
52	II	112420114342	MADHAVAN MR	32	80
53	II	112420114343	MAGESHWARAN V	32	80
54	II	112420114344	MATHAN K	32	80
55	II	112420114345	MONESH AD	32	80
56	II	112420114346	MOORTHY N	32	80
57	II	112420114347	MURALI D	32	85
58	II	112420114348	MURALI P	32	95
59	II	112420114349	NAGARJUN B	32	95
60	II	112420114350	NANDHAKUMAR R	32	95
61	II	112420114351	NANTHAGOPAL D	32	95
62	II	112420114352	NAVEEN KUMAR M	32	95
63	II	112420114353	NAVEEN KUMAR V	32	90
64	II	112420114354	NIRANJAN KUMAR M	32	80
65	II	112420114355	NIRMAL KUMAR G	32	95
66	II	112420114356	NITHISH B	32	85
67	II	112420114357	PADAIYAPPA M	32	85



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S.No	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
68	II	112420114358	PARTHIBAN R	32	85
69	II	112420114359	PINEGASH R	32	85
70	II	112420114360	PRASANTH P	32	85
71	II	112420114361	PRATHAP KUMAR P	32	90
72	II	112420114362	PRATHIP RAJAN P	32	90
73	II	112420114363	PRAVEENKUMAR S	32	90
74	II	112420114364	PRAVEEN KUMAR S	32	90
75	II	112420114365	PRAVEEN RAJ S	32	80
76	II	112420114366	PRITHIVIRAJ V	32	80
77	II	112420114367	RAHUL V	32	80
78	II	112420114368	RAJA BARTH KUMAR S	32	80
79	II	112420114369	RAJAN P	32	90
80	II	112420114370	RAJAVEL S	32	90
81	II	112420114371	RAJESH KUMAR R	32	85
82	II	112420114372	RAJKUMAR S	32	85
83	II	112420114373	RAKHESH KUMAAR A P R	32	90
84	II	112420114374	RAMANA G	32	80
85	II	112420114375	RITHIKROSHAN K	32	80
86	II	112420114376	RUBAN KUMAR M	32	80
87	II	112420114377	SAKTHIVEL D	32	95
88	II	112420114378	SAKTHIVEL K	32	95
89	II	112420114379	SAKTHIVEL M	32	90
90	II	112420114380	SAKTHIVEL S	32	90
91	II	112420114381	SAMUVEL RAJ M	32	85
	II	112420114382	SANTHOSH KUMARAN AR	32	80



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S.No	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
93	II	112420114383	SARAN V	32	80
94	II	112420114385	SARANRAJ R	32	80
95	II	112420114386	SARAVANAKUMAR M	32	80
96	II	112420114387	SARAVANA KUMAR G	32	90
97	II	112420114388	SARAVANAN D	32	90
98	II	112420114389	SATHISHWARAN E	32	85
99	II	112420114390	SATHROCK D	32	80
100	II	112420114391	SEDHU BALAJI	32	80
101	II	112420114392	SELVAKUMAR D	32	95
102	II	112420114394	SIVAPRAKASAM C	32	95
103	II	112420114395	STEPHENRAJ J	32	95
104	II	112420114396	SUNILKUMAR S	32	95
105	II	112420114397	SURIYA P	32	95
106	II	112420114398	TAMILARASASU D	32	90
107	II	112420114399	THIRUMALAI R	32	80
108	II	112420114400	UDHAYA KUMAR K	32	80
109	II	112420114401	UMA SHANKAR SK	32	90
110	II	112420114402	VASANTH P	32	90
111	II	112420114403	VASANTHA KUMAR G	32	90
112	II	112420114404	VASU V	32	90
113	II	112420114405	VELU S	32	90
114	II	112420114406	VENKATESAN K	32	85
115	II	112420114407	VIGNESH D	32	85
		112420114408	VIGNESH P	32	90
		112420114409	VIGNESH R	32	95



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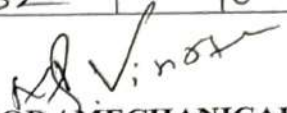
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S.No	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
118	II	112420114410	VIGNESH S	32	85
119	II	112420114411	VIGNESH S	32	80
120	II	112420114413	VIJAY K	32	85
121	II	112420114414	VINEETHKUMAR R	32	80
122	II	112420114415	VINOTHKUMAR V	32	95
123	II	112420114416	VISHVA S	32	90

  
**COORDINATOR**  
(Mr .M.Karthikeyan)

  
**HOD / MECHANICAL**  
(Mr.M.Vinoth)



  
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**DEPARTMENT OF MECHANICAL ENGINEERING**  
**CERTIFICATE OF PARTICIPATION**


This is to certify that Mr/Ms K. SAKTHIVEL (112420114378)

Department of Mechanical Engineering has successfully completed  
Value Added Course titled ' MICRO AND NANO MACHINING '  
held from 25.10.2021 to 30.10.2021

  
CO-ORDINATOR



  
HOD / MECH

  
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PRINCIPAL



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**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE OF PARTICIPATION**

This is to certify that Mr/Ms **D. LOGESH (112420114341)**

Department of Mechanical Engineering has successfully completed


Value Added Course titled ' MICRO AND NANO MACHINING '

held from 25.10.2021 to 30.10.2021



  
CO-ORDINATOR

  
HOD / MECH

  
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**DEPARTMENT OF MECHANICAL ENGINEERING**  
**CERTIFICATE OF PARTICIPATION**

This is to certify that Mr/Ms P. ARUNRAJ (112420114306)

Department of Mechanical Engineering has successfully completed

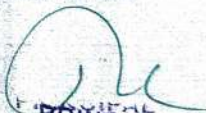
Value Added Course titled ' MICRO AND NANO MACHINING '

held from 25.10.2021 to 30.10.2021

  
CO-ORDINATOR



  
HOD / MECH

  
Sri Venkateswara College of  
Engineering and Technology,  
Thirupachur, Thiruvallur - 631 203

PRINCIPAL





**SRI VENKATESWARA  
COLLEGE OF ENGINEERING AND TECHNOLOGY**

Thirupachur - 631203, Thiruvallur TK , & DT  
APPROVED by AICTE, New Delhi and Affiliated to Anna University , Chennai

**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE OF PARTICIPATION**

This is to certify that Mr/Ms **P. GOWITHAM (112420114324)**.....

Department of Mechanical Engineering has successfully completed

Value Added Course titled ' MICRO AND NANO MACHINING '

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HOD / MECH

  
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**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE OF PARTICIPATION**

This is to certify that Mr/Ms **S. JAGAN (112420114331)**

Department of Mechanical Engineering has successfully completed


Value Added Course titled ' MICRO AND NANO MACHINING '

held from 25.10.2021 to 30.10.2021

  
CO-ORDINATOR



  
HOD / MECH

  
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**DEPARTMENT OF MECHANICAL ENGINEERING**  
**CERTIFICATE OF PARTICIPATION**


This is to certify that Mr/Ms S. YELU (112420114405).....

Department of Mechanical Engineering has successfully completed  
Value Added Course titled ' MICRO AND NANO MACHINING '  
held from 25.10.2021 to 30.10.2021

  
CO-ORDINATOR



  
HOD / MECH

  
PRINCIPAL  
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**DEPARTMENT OF MECHANICAL ENGINEERING**

**CERTIFICATE OF PARTICIPATION**

This is to certify that Mr ~~Ms~~ **Y. VETRIVEL (112420114015)**

Department of Mechanical Engineering has successfully completed

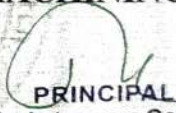
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