



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

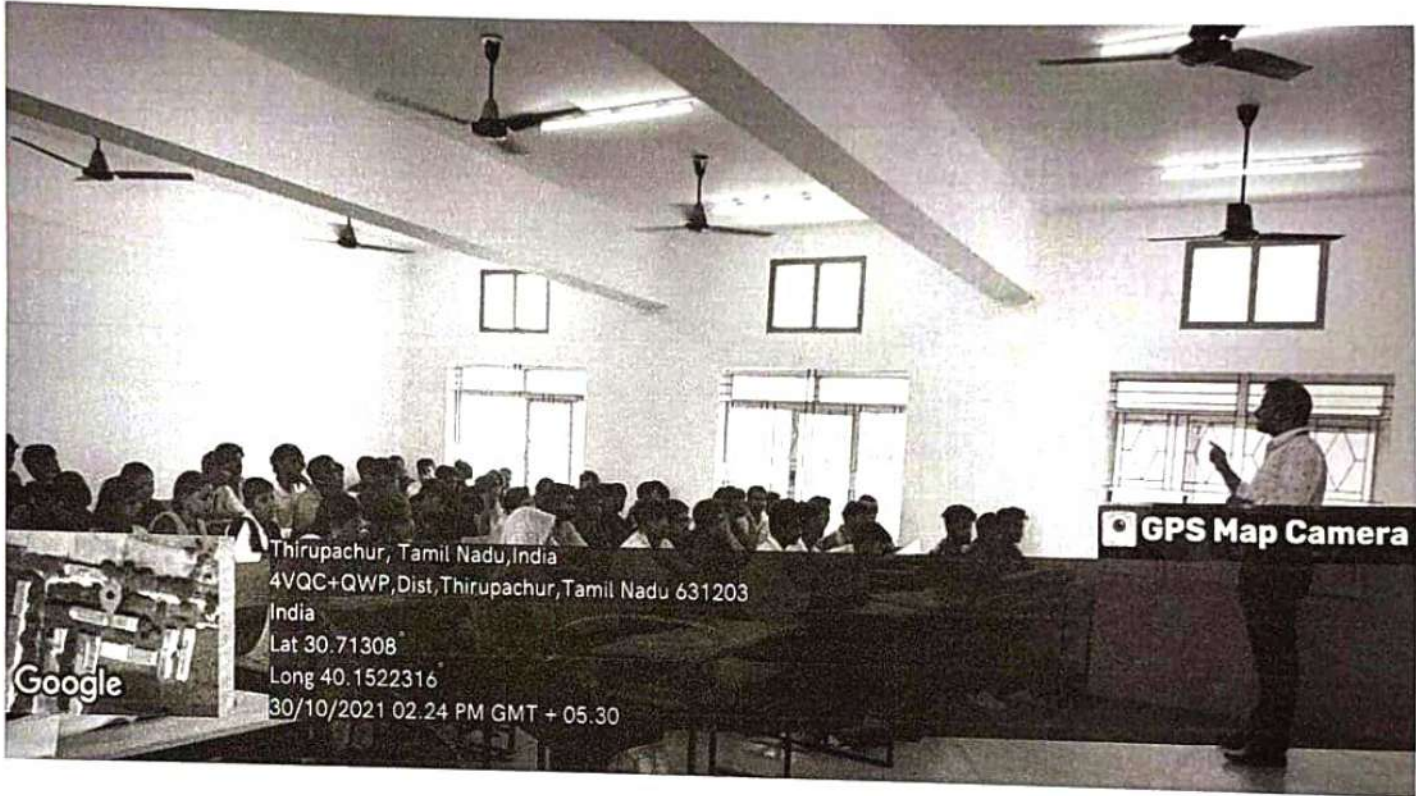


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**21MECHVAC01 - MICRO AND NANO MACHINING**



**Value Added Course on “Micro and Nano Machining” Handles by Dr.M.V. Muralidharan,  
Assistant Professor, Crescent Engineering College**



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**REQUEST LETTER**

**From**

Mr M, Vinoth  
HOD /MECHANICAL  
SVCET  
Thirupachur.

**To**

The Principal  
SVCET  
Thirupachur

*Permitted*  
*Jee*

Respected sir,

Sub: Requesting permission to conduct a 6 Days Value Added Course –Reg

As the Head of **Mechanical Engineering** department, I would like to request your support and permission to conduct training program on “**Micro and Nano Machining**” in our department. There is a need that has been identified of keeping the students up to date with the new technologies. Most students would not have knowledge on this area which is not our available in our curriculum. So, there is need for a there is need for this program to challenge the industry opportunities.

The dates for the training program have been fixed. The training will start on 25.10.2021 and end on 30.10.2021 (32Hrs). Will be handled **Dr.M.V. Muralidharan, Assistant Professor, Crescent Engineering College**. I kindly request your assistance in providing Tea and snack for the participants (students).

Please find the attached Invitation, circular to students, and a presentation highlighting the key areas that will be focused in the training program.

Thanking You

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



*Jee*  
PRINCIPAL  
(Dr.J. Venkatesh)

*Jee*  
PRINCIPAL  
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16.10.2021

### CIRCULAR

The department of Mechanical Engineering will be conducting value added course on "Micro and Nano Machining" from 25.10.2021 to 30.10.2021 (32 Hrs). It is proposed to keep the students up to date with the new technologies.

All the students are requested to participate actively, certificate will be provided for the enrolled Participants.

All the interested candidates should enroll their names to Mr. Tamilselvan, Assistant Professor, Department of Mechanical Engineering on or before 21.10.2021

  
HOD / MECHANICAL  
(Mr.M. Vinoth)



  
PRINCIPAL  
(Dr.J. Venkatesh)

  
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**DEPARTMENT OF MECHANICAL ENGINEERING  
"MICRO AND NANO MACHINING"**

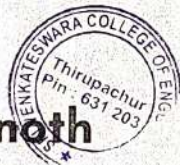
**Date : 25.10.2021 - 30.10.2021**

**RESOURCE PERSON**

**1. Dr. M.V. Muralidharan, Asst Prof,  
Creasent Engg College**

**Mr. M. Vinoth**

**HOD / MECH**



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**Dr.J. Venkatesh**

**PRINCIPAL**



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(A Former Mysore Institute)

### 21MECHVAC01 - MICRO AND NANO MACHINING

#### COURSE CONTENT

#### OBJECTIVES

- To give awareness of different techniques used in micro and nano machining/manufacturing.
- To give in-depth idea of the conventional techniques used in micro machining/manufacturing.
- To introduce Non-conventional micro-nano manufacturing and finishing approaches

#### MODULE-I: INTRODUCTION

Introduction of micro machining process, Mechanical Micro machining; micro turning, micro milling, Ultra Sonic micro machining, Chemical and Electro Chemical Micro Machining, Bio Machining.

#### MODULE- II - THERMAL MICRO MACHINING

Introduction of Beam Energy based micro machining; Electron Beam, Laser Beam, Electric Discharge, Ion Beam, Focused Ion Beam and Plasma Beam Micro Machining. Hybrid Micro Machining Processes, Electro Chemical Spark Micro Machining (ECSMM).

#### MODULE-III - NANO POLISHING

Nano Polishing of Abrasive Flow finishing; Magnetic Abrasive Finishing, Magneto Rheological Finishing, Magneto Rheological Abrasive Flow Finishing, Magnetic Float Polishing. Elastic Emission Machining, Chemo- Mechanical Polishing

#### MODULE-IV – MEMS

Micro- Electro- Mechanical Systems, Lithography, Doping, Ion Implantation, Silicon Oxidation, Crystallography, Etching, Physical vapor deposition, Chemical Vapor deposition, Biotechnology integration, Optical MEMS

#### MODULE-V - METROLOGY, CHARACTERIZATION AND APPLICATIONS

Metrology of micro machined components, challenges in measuring Micro machined components, CMM, Interferometry, Laser interferometry, SEM, TEM, EBSD, Fabrication of Microelectronic Devices, Dimensional Metrology for Micro/Mesoscale Manufacturing, Generalized applications

#### OUTCOMES:

- 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)

*M. Karthikeyan*



*M. Vinoth*

HOD / MECHANICAL  
PRINCIPAL (Mr.M.Vinoth)

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(A Top Grade Autonomous Institution)

## 21MECHVAC01 - MICRO AND NANO MACHINING COURSE SCHEDULE

### 6 Days Training Schedule - Micro and Nano Machining

Day & Date	Session & Time	Speaker Name	Session Topics
Day 1 & 19.07.2021	8.30 am to 10.30am	Dr.M.V. Muralidharan, Assistant Professor, Crescent Engineering College	Introduction of micro machining process, Mechanical Micro machining; micro turning,
	10.45 am to 12.45 pm	Dr.M.V. Muralidharan, Assistant Professor, Crescent Engineering College	micro milling, Ultra Sonic micro machining, Chemical and Electro Chemical Micro Machining,
	1.30 pm to 3.30pm	Dr.M.V. Muralidharan, Assistant Professor, Crescent Engineering College	Bio Machining, Introduction of Beam Energy based micro machining;
Day 2 & 20.07.2021	8.30 am to 10.30am	Dr.M.V. Muralidharan, Assistant Professor, Crescent Engineering College	Electron Beam, Laser Beam, Electric Discharge, Ion Beam.
	10.45 am to 12.45 pm	Dr.M.V. Muralidharan, Assistant Professor, Crescent Engineering College	Focused Ion Beam and Plasma Beam Micro Machining, Hybrid Micro Machining Processes,
	1.30 pm to 2.30pm	Dr.M.V. Muralidharan, Assistant Professor, Crescent Engineering College	Electro Chemical Spark Micro Machining (ECSMM). Nano Polishing of Abrasive Flow finishing; Magnetic Abrasive Finishing,
Day 3 & 21.07.2021	8.30 am to 10.30am	Dr.M.V. Muralidharan, Assistant Professor, Crescent Engineering College	Magneto Rheological Finishing, Magneto Rheological Abrasive Flow Finishing,
	10.45 am to 12.45 pm	Dr.M.V. Muralidharan, Assistant Professor, Crescent Engineering College	Magnetic Float Polishing, Elastic Emission Machining, Chemo- Mechanical Polishing.
	1.30 pm to 2.30pm	Dr.M.V. Muralidharan, Assistant Professor, Crescent Engineering College	Micro- Electro- Mechanical Systems, Lithography, Doping, Ion Implantation,
Day 4 & 22.07.2021	8.30 am to 10.30am	Dr.M.V. Muralidharan, Assistant Professor, Crescent Engineering College	Silicon Oxidation, Crystallography, Etching, Physical vapor deposition,
	10.45 am to 12.45 pm	Dr.M.V. Muralidharan, Assistant Professor, Crescent Engineering College	Chemical Vapor deposition, Biotechnology integration,
	1.30 pm to 2.30pm	Dr.M.V. Muralidharan, Assistant Professor, Crescent Engineering College	Optical MEMS, Metrology of micro machined components,



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Day 5 & 23.07.2021	8.30 am to 10.30am	Dr.M.V. Muralidharan, Assistant Professor, Crescent Engineering College	challenges in measuring Micro machined components CMM, Interferometry,
	10.45 am to 12.45 pm	Dr.M.V. Muralidharan, Assistant Professor, Crescent Engineering College	Laser interferometry, SEM, TEM, EBSD
	1.30 pm to 2.30pm	Dr.M.V. Muralidharan, Assistant Professor, Crescent Engineering College	Fabrication of Microelectronic Devices
Day 6 & 24.07.2021	8.30 am to 10.30am	Dr.M.V. Muralidharan, Assistant Professor, Crescent Engineering College	Dimensional Metrology for Micro
	10.45 am to 12.45 pm	Dr.M.V. Muralidharan, Assistant Professor, Crescent Engineering College	Dimensional Metrology for Mesoscale
	1.30 pm to 3.30pm	Dr.M.V. Muralidharan, Assistant Professor, Crescent Engineering College	Manufacturing, Generalized applications & Test

  
COORDINATOR  
(Mr.M. Karthikeyan)



  
HOD / MECHANICAL  
(Mr.M. Vinoth)

  
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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

### LIST OF STUDENTS ENROLLED

S.No	YEAR	REGISTER NUMBER	NAME OF STUDENTS	SIGNATURE
1	II	112420114001	BRAMMAIYA.K	Brammaia
2	II	112420114002	CHANDIPKUMAR.K	chandipkumar
3	II	112420114003	DINESH.D	Dinesh
4	II	112420114004	DURGA PRASATH.M	Durgaprasath
5	II	112420114005	EZHILARASAN	Ezhilarasan
6	II	112420114006	HEMANATHAN	Hemanathan
7	II	112420114007	KAMESHWARAN.T	Kameshwaran
8	II	112420114008	KISHORE.P	Kishore
9	II	112420114009	MOHANDOSS.S	Mohandoss
10	II	112420114010	NAGARAJ.M	Nagaraj.M
11	II	112420114015	VETRIVEL.V	Vetrivel
12	II	112420114301	ANBAZHAGAN N	Anbazhagan
13	II	112420114302	ARAVINDAN M	Aravindan
14	II	112420114303	ARUN KUMAR R	Arun Kumar
15	II	112420114304	ARUNKUMARAN M	Arun Kumar
	II	112420114305	ARUN PANDIYAN K	Arun Pandiyan
	II	112420114306	ARUNRAJ P	Arunraj P



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S.No	YEAR	REGISTER NUMBER	NAME OF STUDENTS	SIGNATURE
18	II	112420114307	ASHWATH RAJ R	<i>Ashwath</i>
19	II	112420114308	BALAJI K	<i>Balaji</i>
20	II	112420114309	BILAL MOHAMED A	<i>Mohamed</i>
21	II	112420114310	CHANDRA SEKAR S	<i>Chandra</i>
22	II	112420114311	DEVARAJ M	<i>Devaraj</i>
23	II	112420114312	DHANASEKAR S	<i>Dhanasekar</i>
24	II	112420114313	DHIVAKAR N	<i>Dhivakaran</i>
25	II	112420114314	DINESH R	<i>Dinesh</i>
26	II	112420114315	DINESHKUMAR M	<i>Dinesh Kumar</i>
27	II	112420114316	DURAI MURUGAN E	<i>Durai</i>
28	II	112420114317	FAHIM K	<i>Fahim K</i>
29	II	112420114318	GANESH ARAVINDAN D	<i>Ganesh</i>
30	II	112420114319	GNANAPRAKASH D	<i>Gnanaprakash</i>
31	II	112420114320	GOKULAN K	<i>Gokulank</i>
32	II	112420114321	GOKULNATH CM	<i>Gokulnath</i>
33	II	112420114322	GOPINATH P	<i>Gopinath</i>
34	II	112420114323	GOPINATH T	<i>Gopinath</i>
35	II	112420114324	GOWTHAM P	<i>Gowtham</i>
36	II	112420114325	GUNASEKAR R	<i>Gunasekar</i>
37	II	112420114326	GUNASEKARAN M	<i>Gunasekaran</i>
38	II	112420114327	GUNASEKARAN M	<i>Gunasekaran</i>
39	II	112420114328	HARI KRISHNAN K	<i>HARI</i>
40	II	112420114329	HARISH NARAYANAN S	<i>Harish</i>
	II	112420114330	JACOB K	<i>Jacob</i>
	II	112420114331	JAGAN S	<i>Jagan</i>



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S.No	YEAR	REGISTER NUMBER	NAME OF STUDENTS	SIGNATURE
43	II	112420114332	JAISAI B	Jaisai B
44	II	112420114334	JAYAPRAKASH P	Jayaprakash
45	II	112420114335	JAYAPRATHAP M	Jayapra
46	II	112420114336	KARANG	Karanges
47	II	112420114337	KARTHICK P	Karthick
48	II	112420114338	KARTHICK R	Karthick
49	II	112420114339	KARTHICK R	Karthick
50	II	112420114340	KIRUBAIRAJ S	Kirubairaj S
51	II	112420114341	LOGESH D	Logesh D
52	II	112420114342	MADHAVAN MR	Madhan
53	II	112420114343	MAGESHWARAN V	Magadan
54	II	112420114344	MATHAN K	Mathan
55	II	112420114345	MONESH AD	Monesh AD
56	II	112420114346	MOORTHY N	Moorthy N
57	II	112420114347	MURALI D	Murali
58	II	112420114348	MURALI P	Murali
59	II	112420114349	NAGARJUN B	Nagarjun
60	II	112420114350	NANDHAKUMAR R	Nandhakumar
61	II	112420114351	NANTHAGOPAL D	Nanthagopal D
62	II	112420114352	NAVEEN KUMAR M	Naveenkumar
63	II	112420114353	NAVEEN KUMAR V	Naveen
64	II	112420114354	NIRANJAN KUMAR M	Niranjan Kumar
65	II	112420114355	NIRMAL KUMAR G	Nirmal Kumar
	II	112420114356	NITHISH B	Nithish
	II	112420114357	PADAIYAPPA M	Padaiyappa



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S.No	YEAR	REGISTER NUMBER	NAME OF STUDENTS	SIGNATURE
118	II	112420114410	VIGNESH S	Vignesh
119	II	112420114411	VIGNESH S	Vignesh S
120	II	112420114413	VIJAY K	Vijay
121	II	112420114414	VINEETHKUMAR R	Vineethkumar
122	II	112420114415	VINOTHKUMAR V	Vinothkumar V
123	II	112420114416	VISHVA S	Vishva

  
COORDINATOR  
(Mr.M. Karthikeyan)

  
HOD / MECHANICAL  
(Mr.M.Vinoth)



  
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S.No	YEAR	REGISTER NUMBER	NAME OF STUDENTS	SIGNATURE
68	II	112420114358	PARTHIBAN R	Parthiban R
69	II	112420114359	PINEGASH R	Pinegash
70	II	112420114360	PRASANTH P	Prasanth P
71	II	112420114361	PRATHAP KUMAR P	Prathap P
72	II	112420114362	PRATHIP RAJAN P	Prathip
73	II	112420114363	PRAVEENKUMAR S	Praveen Kumar
74	II	112420114364	PRAVEEN KUMAR S	Praveen
75	II	112420114365	PRAVEEN RAJ S	Praveenraj.s
76	II	112420114366	PRITHIVIRAJ V	Prithiviraj
77	II	112420114367	RAHUL V	Rahul
78	II	112420114368	RAJA BARTH KUMAR S	Raja Barath Kumar
79	II	112420114369	RAJAN P	Rajan
80	II	112420114370	RAJAVEL S	Rajavel
81	II	112420114371	RAJESH KUMAR R	Rajesh Kumar P
82	II	112420114372	RAJKUMAR S	Raj Kumar
83	II	112420114373	RAKHESH KUMAAR A P R	Rakshesh
84	II	112420114374	RAMANA G	Ramana
85	II	112420114375	RITHIKROSHAN K	Rithik
86	II	112420114376	RUBAN KUMAR M	Ruban
87	II	112420114377	SAKTHIVEL D	Sakthivel
88	II	112420114378	SAKTHIVEL K	Sakthivel
89	II	112420114379	SAKTHIVEL M	Sakthivel.M
90	II	112420114380	SAKTHIVEL S	Sakthi
91	II	112420114381	SAMUVEL RAJ M	Samuel
	II	112420114382	SANTHOSH KUMAR	Santhosh



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S.No	YEAR	REGISTER NUMBER	NAME OF STUDENTS	SIGNATURE
93	II	112420114383	SARAN V	Saran .V
94	II	112420114385	SARANRAJ R	SaranRaj R
95	II	112420114386	SARAVANAKUMAR M	Saravakumar
96	II	112420114387	SARAVANA KUMAR G	Saravana
97	II	112420114388	SARAVANAN D	Saravanan
98	II	112420114389	SATHISHWARAN E	Sathishwaran
99	II	112420114390	SATHROCK D	Sathrock D
100	II	112420114391	SEDHU BALAJI	SedhuBala.
101	II	112420114392	SELVAKUMAR D	Selvakumar.
102	II	112420114394	SIVAPRAKASAM C	Sivaprakasam
103	II	112420114395	STEPHENRAJ J	Stephraj. J
104	II	112420114396	SUNILKUMAR S	Sunilkumar S
105	II	112420114397	SURIYA P	Suriya .
106	II	112420114398	TAMILARASASU D	Tamilarasasu
107	II	112420114399	THIRUMALAI R	Thirumalai . R
108	II	112420114400	UDHAYA KUMAR K	Udhaya Kumar
109	II	112420114401	UMA SHANKAR SK	Uma Shankar SK
110	II	112420114402	VASANTH P	Vasanth P
111	II	112420114403	VASANTHA KUMAR G	Vasanth Kumar G
112	II	112420114404	VASU V	Vasu
113	II	112420114405	VELU S	Velu
114	II	112420114406	VENKATESAN K	Venkatesan
115	II	112420114407	VIGNESH D	Vignesh D
116	II	112420114408	VIGNESH P	Vignesh P
117	I	112420114409	VIGNESH R	Vignesh R



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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

### ATTENDANCE

S.NO	YE AR	REGISTER NUMBER	NAME OF STUDENTS	25.10.21		26.10.21		27.10.21		28.10.21		29.10.21		30.10.21		TOTAL HOURS (32)
				6 HOURS		5 HOURS		5 HOURS		5 HOURS		5 HOURS		6 HOURS		
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
1	II	112420114001	BRAMMAIYA.K	Pres	Pres	Pres	Pres	Pres	Pres	Pres	Pres	Pres	Pres	Pres	Pres	32
2	II	112420114002	CHANDIPKUMAR.K	cha	cha	cha	cha	cha	cha	cha	cha	cha	cha	cha	cha	32
3	II	112420114003	DINESH.D	DD	DD	DD	DD	DD	DD	DD	DD	DD	DD	DD	DD	32
4	II	112420114004	DURGA PRASATH.M	dp	dp	dp	dp	dp	dp	dp	dp	dp	dp	dp	dp	32
5	II	112420114005	EZHILARASAN	Esil	Esil	Esil	Esil	Esil	Esil	Esil	Esil	Esil	Esil	Esil	Esil	32
6	II	112420114006	HEMANATHAN	Heman	Heman	Heman	Heman	Heman	Heman	Heman	Heman	Heman	Heman	Heman	Heman	32
7	II	112420114007	KAMESHWARAN.T	ket	ket	ket	ket	ket	ket	ket	ket	ket	ket	ket	ket	32
8	II	112420114008	KISHORE.P	Kishore	Kishore	Kishore	Kishore	Kishore	Kishore	Kishore	Kishore	Kishore	Kishore	Kishore	Kishore	32
9	II	112420114009	MOHANDOSS.S	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	MS	32
10	II	112420114010	NAGARAJ.M	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	32
11	II	112420114015	VETRIVEL.V	vetriv	vetriv	vetriv	vetriv	vetriv	vetriv	vetriv	vetriv	vetriv	vetriv	vetriv	vetriv	32
12	II	112420114301	ANBAZHAGAN N	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	AN	32
13	II	112420114302	ARAVINDAN M	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	AM	32
14	II	112420114303	ARUN KUMAR R	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	32
15	II	112420114304	ARUNKUMARAN	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	32
16	II	112420114305	ARUN PANDIYAN K	ARUN	ARUN	ARUN	ARUN	ARUN	ARUN	ARUN	ARUN	ARUN	ARUN	ARUN	ARUN	32



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NO	YE AR	REGISTER NUMBER	NAME OF STUDENTS	25.10.21		26.10.21		27.10.21		28.10.21		29.10.21		30.10.21		TOTAL HOURS (32)
				6 HOURS		5 HOURS		5 HOURS		5 HOURS		5 HOURS		6 HOURS		
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
17	II	112420114306	ARUNRAJ P	Ⓟ	Ⓟ	Ⓟ	Ⓟ	Ⓟ	Ⓟ	Ⓟ	Ⓟ	Ⓟ	Ⓟ	Ⓟ	Ⓟ	32
18	II	112420114307	ASHWATHI RAJ R	Ashank	Ashu	Ashu	Ashu	Ashu	Ashu	Ashu	Ashu	Ashu	Ashu	Ashu	Ashu	32
19	II	112420114308	BALAJI K	Baj	Baj	Baj	Baj	Baj	Baj	Baj	Baj	Baj	Baj	Baj	Baj	32
20	II	112420114309	BILAL MOHAMED A	Bilal	Bilal	Bilal	Bilal	Bilal	Bilal	Bilal	Bilal	Bilal	Bilal	Bilal	Bilal	32
21	II	112420114310	CHANDRA SEKAR S	Chandra Sekar	Chandra Sekar	Chandra Sekar	Chandra Sekar	Chandra Sekar	Chandra Sekar	Chandra Sekar	Chandra Sekar	Chandra Sekar	Chandra Sekar	Chandra Sekar	Chandra Sekar	32
22	II	112420114311	DEVARAJ M	Deva	Deva	Deva	Deva	Deva	Deva	Deva	Deva	Deva	Deva	Deva	Deva	32
23	II	112420114312	DHANASEKAR S	Dhan	Dhan	Dhan	Dhan	Dhan	Dhan	Dhan	Dhan	Dhan	Dhan	Dhan	Dhan	32
24	II	112420114313	DHIVAKAR N	Dhiva	Dhiva	Dhiva	Dhiva	Dhiva	Dhiva	Dhiva	Dhiva	Dhiva	Dhiva	Dhiva	Dhiva	32
25	II	112420114314	DINESH R	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	32
26	II	112420114315	DINESHKUMAR M	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	32
27	II	112420114316	DURAI MURUGAN E	Durai	Durai	Durai	Durai	Durai	Durai	Durai	Durai	Durai	Durai	Durai	Durai	32
28	II	112420114317	FAHIM K	Fahim	Fahim	Fahim	Fahim	Fahim	Fahim	Fahim	Fahim	Fahim	Fahim	Fahim	Fahim	32
29	II	112420114318	GANESH ARAVINDAN D	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	32
30	II	112420114319	GNANAPRAKAS H D	Gnan	Gnan	Gnan	Gnan	Gnan	Gnan	Gnan	Gnan	Gnan	Gnan	Gnan	Gnan	32
31	II	112420114320	GOKULAN K	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	32
32	II	112420114321	GOKULNATH CM	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	Gokul	32
33	II	112420114322	GOPINATH P	Gopin	Gopin	Gopin	Gopin	Gopin	Gopin	Gopin	Gopin	Gopin	Gopin	Gopin	Gopin	32
34	II	112420114323	GOPINATH T	Gopin	Gopin	Gopin	Gopin	Gopin	Gopin	Gopin	Gopin	Gopin	Gopin	Gopin	Gopin	32
35	II	112420114324	GOWTHAM P	Gowth	Gowth	Gowth	Gowth	Gowth	Gowth	Gowth	Gowth	Gowth	Gowth	Gowth	Gowth	32
36	II	112420114325	GUNASEKAR R	Guna	Guna	Guna	Guna	Guna	Guna	Guna	Guna	Guna	Guna	Guna	Guna	32
37	II	112420114326	GUNASEKARAN M	Guna	Guna	Guna	Guna	Guna	Guna	Guna	Guna	Guna	Guna	Guna	Guna	32
38	II	112420114327	GUNASEKARAN	Guna	Guna	Guna	Guna	Guna	Guna	Guna	Guna	Guna	Guna	Guna	Guna	32
39	II	112420114328	MARI KRISHNAN	Mari	Mari	Mari	Mari	Mari	Mari	Mari	Mari	Mari	Mari	Mari	Mari	32



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				6 HOURS		5 HOURS		5 HOURS		5 HOURS		5 HOURS		6 HOURS		
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
40	II	112420114320	HARISH NARAYANAN S	Har	Har	Har	Har	Har	Har	Har	Har	Har	Har	Har	Har	32
41	II	112420114330	JACOB K	Jac	Jac	Jac	Jac	Jac	Jac	Jac	Jac	Jac	Jac	Jac	Jac	32
42	II	112420114331	JAGAN S	Jag	Jag	Jag	Jag	Jag	Jag	Jag	Jag	Jag	Jag	Jag	Jag	32
43	II	112420114332	JAISAI B	Jai	Jai	Jai	Jai	Jai	Jai	Jai	Jai	Jai	Jai	Jai	Jai	32
44	II	112420114334	JAYAPRAKASH P	Jay	Jay	Jay	Jay	Jay	Jay	Jay	Jay	Jay	Jay	Jay	Jay	32
45	II	112420114335	JAYAPRATHAP M	Jay	Jay	Jay	Jay	Jay	Jay	Jay	Jay	Jay	Jay	Jay	Jay	32
46	II	112420114336	KARAN G	Kar	Kar	Kar	Kar	Kar	Kar	Kar	Kar	Kar	Kar	Kar	Kar	32
47	II	112420114337	KARTHICK P	Kar	Kar	Kar	Kar	Kar	Kar	Kar	Kar	Kar	Kar	Kar	Kar	32
48	II	112420114338	KARTHICK R	Kar	Kar	Kar	Kar	Kar	Kar	Kar	Kar	Kar	Kar	Kar	Kar	32
49	II	112420114339	KARTHICK R	Kar	Kar	Kar	Kar	Kar	Kar	Kar	Kar	Kar	Kar	Kar	Kar	32
50	II	112420114340	KIRUBAIRAJ S	Kir	Kir	Kir	Kir	Kir	Kir	Kir	Kir	Kir	Kir	Kir	Kir	32
51	II	112420114341	LOGESH D	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	Log	32
52	II	112420114342	MADHAVAN MR	Mad	Mad	Mad	Mad	Mad	Mad	Mad	Mad	Mad	Mad	Mad	Mad	32
53	II	112420114343	MAGESHWARAN V	Mag	Mag	Mag	Mag	Mag	Mag	Mag	Mag	Mag	Mag	Mag	Mag	32
54	II	112420114344	MATHAN K	Mat	Mat	Mat	Mat	Mat	Mat	Mat	Mat	Mat	Mat	Mat	Mat	32
55	II	112420114345	MONESH AD	Mon	Mon	Mon	Mon	Mon	Mon	Mon	Mon	Mon	Mon	Mon	Mon	32
56	II	112420114346	MOORTHY N	Mo	Mo	Mo	Mo	Mo	Mo	Mo	Mo	Mo	Mo	Mo	Mo	32
57	II	112420114347	MURALI D	Mur	Mur	Mur	Mur	Mur	Mur	Mur	Mur	Mur	Mur	Mur	Mur	32
58	II	112420114348	MURALI P	Mur	Mur	Mur	Mur	Mur	Mur	Mur	Mur	Mur	Mur	Mur	Mur	32
59	II	112420114349	NAGARJUN B	Nag	Nag	Nag	Nag	Nag	Nag	Nag	Nag	Nag	Nag	Nag	Nag	32
60	II	112420114350	NANDHAKUMAR R	Nan	Nan	Nan	Nan	Nan	Nan	Nan	Nan	Nan	Nan	Nan	Nan	32
61	II	112420114351	NANATHAGOPAL D	Nan	Nan	Nan	Nan	Nan	Nan	Nan	Nan	Nan	Nan	Nan	Nan	32
62	II	112420114352	NAVEEN KUMAR	Nan	Nan	Nan	Nan	Nan	Nan	Nan	Nan	Nan	Nan	Nan	Nan	32



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				6 HOURS		5 HOURS		5 HOURS		5 HOURS		5 HOURS		6 HOURS		
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
63	II	112420114353	NAVEEN KUMAR V	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	32
64	II	112420114354	NIRANJAN KUMAR M	Niranjan	Niranjan	Niranjan	Niranjan	Niranjan	Niranjan	Niranjan	Niranjan	Niranjan	Niranjan	Niranjan	Niranjan	32
65	II	112420114355	NIRMAL KUMAR G	Nirmal	Nirmal	Nirmal	Nirmal	Nirmal	Nirmal	Nirmal	Nirmal	Nirmal	Nirmal	Nirmal	Nirmal	32
66	II	112420114356	NITHISH B	Nithish	Nithish	Nithish	Nithish	Nithish	Nithish	Nithish	Nithish	Nithish	Nithish	Nithish	Nithish	32
67	II	112420114357	PADAIYAPPA M	Padaiyappa	Padaiyappa	Padaiyappa	Padaiyappa	Padaiyappa	Padaiyappa	Padaiyappa	Padaiyappa	Padaiyappa	Padaiyappa	Padaiyappa	Padaiyappa	32
68	II	112420114358	PARTHIBAN R	Parthiban	Parthiban	Parthiban	Parthiban	Parthiban	Parthiban	Parthiban	Parthiban	Parthiban	Parthiban	Parthiban	Parthiban	32
69	II	112420114359	PINEGASH R	Pinegash	Pinegash	Pinegash	Pinegash	Pinegash	Pinegash	Pinegash	Pinegash	Pinegash	Pinegash	Pinegash	Pinegash	32
70	II	112420114360	PRASANTH P	Prasanth	Prasanth	Prasanth	Prasanth	Prasanth	Prasanth	Prasanth	Prasanth	Prasanth	Prasanth	Prasanth	Prasanth	32
71	II	112420114361	PRATHAP KUMAR P	Prathap	Prathap	Prathap	Prathap	Prathap	Prathap	Prathap	Prathap	Prathap	Prathap	Prathap	Prathap	32
72	II	112420114362	PRATHIP RAJAN P	Prathip	Prathip	Prathip	Prathip	Prathip	Prathip	Prathip	Prathip	Prathip	Prathip	Prathip	Prathip	32
73	II	112420114363	PRAVEENKUMAR S	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	32
74	II	112420114364	PRAVEEN KUMAR S	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	32
75	II	112420114365	PRAVEEN RAJ S	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	32
76	II	112420114366	PRITHIVIRAJ V	Prithiviraj	Prithiviraj	Prithiviraj	Prithiviraj	Prithiviraj	Prithiviraj	Prithiviraj	Prithiviraj	Prithiviraj	Prithiviraj	Prithiviraj	Prithiviraj	32
77	II	112420114367	RAHUL V	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	Rahul	32
78	II	112420114368	RAJA BARTH KUMAR S	Raja	Raja	Raja	Raja	Raja	Raja	Raja	Raja	Raja	Raja	Raja	Raja	32
79	II	112420114369	RAJAN P	Rajan	Rajan	Rajan	Rajan	Rajan	Rajan	Rajan	Rajan	Rajan	Rajan	Rajan	Rajan	32
80	II	112420114370	RAJAVEL S	Rajavel	Rajavel	Rajavel	Rajavel	Rajavel	Rajavel	Rajavel	Rajavel	Rajavel	Rajavel	Rajavel	Rajavel	32
81	II	112420114371	RAJESH KUMAR R	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	32
82	II	112420114372	RAJKUMAR S	Rajkumar	Rajkumar	Rajkumar	Rajkumar	Rajkumar	Rajkumar	Rajkumar	Rajkumar	Rajkumar	Rajkumar	Rajkumar	Rajkumar	32
83	II	112420114373	RAKHESH KUMAR A P R	Rakhesh	Rakhesh	Rakhesh	Rakhesh	Rakhesh	Rakhesh	Rakhesh	Rakhesh	Rakhesh	Rakhesh	Rakhesh	Rakhesh	32
84	II	112420114374	RAMAN K G	Raman	Raman	Raman	Raman	Raman	Raman	Raman	Raman	Raman	Raman	Raman	Raman	32
85	II	112420114375	RAMAN K G	Raman	Raman	Raman	Raman	Raman	Raman	Raman	Raman	Raman	Raman	Raman	Raman	32



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				6 HOURS		5 HOURS		5 HOURS		5 HOURS		5 HOURS		6 HOURS		
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
86	II	112420114376	RUBAN KUMAR M	Rub	Rub	Rub	Rub	Rub	Rub	Rub	Rub	Rub	Rub	Rub	Rub	32
87	II	112420114377	SAKTHIVEL D	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	32
88	II	112420114378	SAKTHIVEL K	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	32
89	II	112420114379	SAKTHIVEL M	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	32
90	II	112420114380	SAKTHIVEL S	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak	32
91	II	112420114381	SAMUVEL RAJ M	Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam	Sam	32
92	II	112420114382	SANTHOSH KUMARAN AR	San	San	San	San	San	San	San	San	San	San	San	San	32
93	II	112420114383	SARAN V	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	32
94	II	112420114385	SARANRAJ R	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	32
95	II	112420114386	SARAVANAKUM AR M	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	32
96	II	112420114387	SARAVANA KUMAR G	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	32
97	II	112420114388	SARAVANAN D	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	Sar	32
98	II	112420114389	SATHISHWARAN E	Sath	Sath	Sath	Sath	Sath	Sath	Sath	Sath	Sath	Sath	Sath	Sath	32
99	II	112420114390	SATHROCK D	Sath	Sath	Sath	Sath	Sath	Sath	Sath	Sath	Sath	Sath	Sath	Sath	32
100	II	112420114391	SEDHU BALAJI	Sed	Sed	Sed	Sed	Sed	Sed	Sed	Sed	Sed	Sed	Sed	Sed	32
101	II	112420114392	SELVAKUMAR D	Sel	Sel	Sel	Sel	Sel	Sel	Sel	Sel	Sel	Sel	Sel	Sel	32
102	II	112420114394	SIVAPRAKASAM C	Siv	Siv	Siv	Siv	Siv	Siv	Siv	Siv	Siv	Siv	Siv	Siv	32
103	II	112420114395	STEPHENRAJ J	Step	Step	Step	Step	Step	Step	Step	Step	Step	Step	Step	Step	32
104	II	112420114396	SUNILKUMAR S	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	Sunil	32
105	II	112420114397	SURIYA P	Suri	Suri	Suri	Suri	Suri	Suri	Suri	Suri	Suri	Suri	Suri	Suri	32
106	II	112420114398	TAMILARASASU	Tamil	Tamil	Tamil	Tamil	Tamil	Tamil	Tamil	Tamil	Tamil	Tamil	Tamil	Tamil	32
107	II	112420114399	THIRUMALAI R	Thiru	Thiru	Thiru	Thiru	Thiru	Thiru	Thiru	Thiru	Thiru	Thiru	Thiru	Thiru	32
108	II	112420114400	UDHAYAKUMAR K	Udhay	Udhay	Udhay	Udhay	Udhay	Udhay	Udhay	Udhay	Udhay	Udhay	Udhay	Udhay	32



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				6 HOURS		5 HOURS		5 HOURS		5 HOURS		5 HOURS		6 HOURS		
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
109	II	112420114401	UMA SHANKAR SR	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	32
110	II	112420114402	VASANTHI P	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	32
111	II	112420114403	VASANTHA KUMAR G	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	32
112	II	112420114404	VASU V	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	32
113	II	112420114405	VELU S	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	32
114	II	112420114406	VENKATESAN K	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	32
115	II	112420114407	VIGNESH D	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	32
116	II	112420114408	VIGNESH P	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	32
117	II	112420114409	VIGNESH R	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	32
118	II	112420114410	VIGNESH S	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	32
119	II	112420114411	VIGNESH S	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	32
120	II	112420114413	VIJAY K	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	32
121	II	112420114414	VINEETHKUMAR R	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	32
122	II	112420114415	VINOTHKUMAR V	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	32
123	II	112420114416	VISHVA S	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	Handwritten	32

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



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

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## COLLEGE OF ENGINEERING AND TECHNOLOGY

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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  $\mu\text{m}$**
- d) 100  $\mu\text{m}$

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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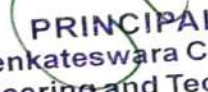
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- a) 1 mm  
b) <10 nm  
c) **100 micro**  
d) None of the above
17. The nanostructures are categorized into \_\_\_\_\_ types according to their dimensions?  
a) One  
b) **Two**  
c) Three  
d) Four
18. Which one of the following is an example of zero-dimensional 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

**FEEDBACK FORM**

Student Reg. No. & Name: 112420114003 & D. Durash  
Sem & Year: 03 & II

Date: 30/10/2021

Evaluating the following Question

1. This course was interesting  
a)  Strongly Agree    b)  Agree    c)  Moderate    d)  Disagree    e)  Strongly Disagree
2. Was this course useful?  
a)  Strongly Agree    b)  Agree    c)  Moderate    d)  Disagree    e)  Strongly Disagree
3. During the course did you find any technical Difficulties?  
a)  Strongly Agree    b)  Agree    c)  Moderate    d)  Disagree    e)  Strongly Disagree
4. did the instructor delivered the information, you didn't know already  
a)  Strongly Agree    b)  Agree    c)  Moderate    d)  Disagree    e)  Strongly Disagree
5. The Subject matter was presented effectively  
a)  Strongly Agree    b)  Agree    c)  Moderate    d)  Disagree    e)  Strongly Disagree
6. This instructor helped me learn about how the course works in the real world.  
a)  Strongly Agree    b)  Agree    c)  Moderate    d)  Disagree    e)  Strongly Disagree
7. This instructor provided information I can use to be successful in my career.  
a)  Strongly Agree    b)  Agree    c)  Moderate    d)  Disagree    e)  Strongly Disagree
8. Overall how do you rate the Training Program?  
a)  Strongly Agree    b)  Agree    c)  Moderate    d)  Disagree    e)  Strongly Disagree



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*D. Durash*  
Student Signature





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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.

- a) micro-turning
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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 Binnig
- b) Alex Zettl
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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?  
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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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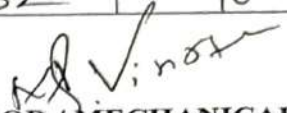
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S.No	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
118	II	112420114410	VIGNESH S	32	85
119	II	112420114411	VIGNESH S	32	80
120	II	112420114413	VIJAY K	32	85
121	II	112420114414	VINEETHKUMAR R	32	80
122	II	112420114415	VINOTHKUMAR V	32	95
123	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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**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 '

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CO-ORDINATOR

  
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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

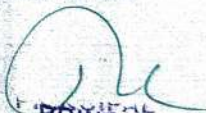
Value Added Course titled ' MICRO AND NANO MACHINING '

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  
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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 '

held from 25.10.2021 to 30.10.2021

  
CO-ORDINATOR



  
HOD / MECH

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

  
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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

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

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

  
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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

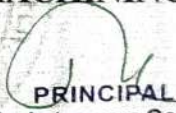
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