



SRI VENKATESWARA

COLLEGE OF ENGINEERING AND TECHNOLOGY

Thirupachur-631203, Thiruvallur TK & DT
Approved by AICTE New Delhi & Affiliated to Anna University Chennai
(A Telugu Minority Institution)

22MECHVAC02 - CNC MACHINING AND PROGRAMMING

EVENT REPORT

Name of the Course: CNC Machining and Programming

Name of the Instructor: Dr. K. Purushothaman, Professor, SPCET

Year and Branch: III, IV – MECHANICAL ENGINEERING

Duration of Course: 35 Hrs (06.02.2023 to 11.02.2023)

SUMMARY OF THE EVENT:

The Course was inaugurated on 06.02.2023 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 11.02.2023 by 3.00 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 “CNC Machining and Programming”

ASSESSMENT MODE:

No of Students Enrolled: 148

Scheme of Exam: Offline

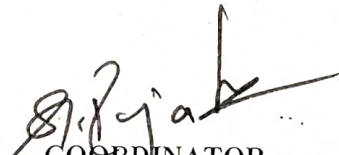
No of Students appeared: 148


No of Students Passed: 148

Date of Exam: 11.02.2023


OUTCOME:

- The students can able the control the mechanical tools and equipment in a computerized manner and they can able to learn and update to the existing technology.


COORDINATOR
(Mr.S. Rajasekar)


HOD/MECHANICAL
(Mr.M.Vinotli)




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22MECHVAC02 - CNC MACHINING AND PROGRAMMING TEST QUESTION

- (1) In machining of a workpiece, the material is removed by ____
[A] **shearing acting**
[B] using brittleness of the material
[C] drilling action
[D] melting action
- (2) The depth that the tool is plunged into the surface is called as ____
[A] depth of cut
[B] working depth
[C] **depth of tool**
[D] feed
- (3) Feed is measured in units of ____
[A] velocity
[B] length
[C] **length/revolution**
[D] degree/revolution
- (4) CNC machining centres do not include operations like ____
[A] **welding**
[B] tapping
[C] milling
[D] boring
- (5) In CNC systems multiple microprocessors and programmable logic controllers work ____
[A] in series
[B] **in parallel**
[C] for 80% of the total machining time
[D] one after the other
- (6) Which of the following is not the advantage of CNC machines?
[A] Reduced scrap rate
[B] **Improved strength of the components**
[C] Higher flexibility
[D] Improved quality
- (7) In how many ways CNC machine tool systems can be classified?
[A] **3**
[B] 5
[C] 4
[D] 2
- (8) Which machine tools are basically handled and controlled by Computer Numerical Control (CNC) machine especially at the manufacturing sector?
[A] Mills & Grinders
[B] Routers
[C] Lathes
[D] **All of the above**



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- (9) Which kind of switches examine or detect the presence of an item or object without making contact with them?
- [A] Proximity Switches
 - [B] Reed switches
 - [C] Photo-electric Switches
 - [D] Mechanical Switches
- (10) Which bus forms an intermediate communication path between input/output ports and input/output units?
- [A] Address Bus
 - [B] System Bus
 - [C] Data Bus
 - [D] Control Bus
- (11) Which unit of PIC undergo the process of converting mains ac voltage to low dc voltage required for the circuits and the input-output interfacing modules ?
- [A] Power Supply Unit
 - [B] Input/Output Unit
 - [C] Memory Unit
 - [D] Processing Unit
- (12) Which machine tool reduces the number of set-ups in machining operation, time spent in setting machine tools and transportation between sections of machines?
- [A] Machining centre
 - [B] Adaptive Control Systems
 - [C] Direct Numerical Control machine tool
 - [D] Computer Numerical Control machine tool
- (13) The machine tool, in which calculation and setting of the operating conditions like depth of cut, feed, speed are done during the machining by the control system itself, is called
- [A] Adaptive Control System
 - [B] Machining Centre System
 - [C] Computer Numerical Control System
 - [D] Direct Numerical Control System
- (14) Part-programming mistakes can be avoided in
- [A] CNC (Computer Numerical Control) machine tool
 - [B] NC (Numerical Control) machine tool
 - [C] Both a. and b.
 - [D] None of the above
- (15) Several machine tools can be controlled by a central computer in
- [A] DNC (Direct Numerical Control) machine tool
 - [B] CCNC (Central-Compute Numerical Control) machine tool
 - [C] NC (Numerical Control) machine tool
 - [D] CNC (Computer Numerical Control) machine tool
- (16) In CNC machine tool, the part program entered into the computer memory
- [A] can be used only once
 - [B] can be used again but it has to be modified every time
 - [C] can be used in and again
 - [D] can be used in and again



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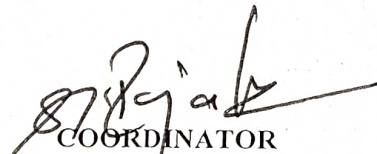



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- (17) Point-to-point systems are used for ____
- [A] facing
 - [B] parting
 - [C] reaming
 - [D] grooving
- (18) In NC (Numerical Control) machine tool, the position feedback package is connected between
- [A] control unit and programmer
 - [B] programmer and machine tool
 - [C] control unit and machine tool
 - [D] None of the above
- (19) The device, fed to the control unit of NC machine tool which sends the position command signals to side
- [A] tape
 - [B] controller
 - [C] feedback unit
 - [D] none of the above
- (20) In part programming, interpolation is used for obtaining ____ trajectory.
- [A] helicoidal
 - [B] zig-zag
 - [C] pentagonal
 - [D] triangular


COORDINATOR
(Mr.S. Rajasekar)


HOD/MECHANICAL
(Mr.M.Vinoth)




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22MECHVAC0 - CNC MACHINING AND PROGRAMMING TEST QUESTION

Student Reg. No. & Name: 112420114358 & R. Parthiban
Sem & Year: 06 & III

Date: 11/02/2023

- (1) In machining of a workpiece, the material is removed by ___
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19
20



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22MECHVAC02 - CNC MACHINING AND PROGRAMMING

Course Code	22MECHVAC02
Name of the Course	CNC MACHINING AND PROGRAMMING
Duration of the Course	35 HOURS
Academic Year	2022-23
Period of the Course	06.02.2023 TO 11.02.2023

STUDENTS EVALUATION SHEET

S.No	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
1	III	112420114323	GOPINATH T	35	80
2	III	112420114324	GOWTHAM P	35	80
3	III	112420114325	GUNASEKAR R	35	80
4	III	112420114326	GUNASEKARAN M	35	90
5	III	112420114327	GUNASEKARAN M	35	90
6	III	112420114328	HARI KRISHNAN K	35	85
7	III	112420114329	HARISH NARAYANAN S	35	85
8	III	112420114330	JACOB K	35	85
9	III	112420114331	JAGAN S	35	85
10	III	112420114332	JAISAI B	35	90
11	III	112420114334	JAYAPRAKASH P	35	90
12	III	112420114335	JAYAPRATHAP M	35	90
13	III	112420114336	KARAN G	35	95
14	III	112420114337	KARTHICK P	35	95
15	III	112420114338	KARTHICK R	35	80
16	III	112420114339	KARTHICK R	35	80
17	III	112420114340	KIRUBAIRAJ S	35	80
18	III	112420114341	LOGESH D	35	80



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S.No	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
19	III	112420114342	MADHAVAN MR	35	80
20	III	112420114343	MAGESHWARAN V	35	80
21	III	112420114344	MATHAN K	35	80
22	III	112420114345	MONESH AD	35	80
23	III	112420114346	MOORTHY N	35	90
24	III	112420114347	MURALI D	35	95
25	III	112420114348	MURALI P	35	95
26	III	112420114349	NAGARJUN B	35	95
27	III	112420114350	NANDHAKUMAR R	35	85
28	III	112420114351	NANTHAGOPAL D	35	85
29	III	112420114352	NAVEEN KUMAR M	35	80
30	III	112420114353	NAVEEN KUMAR V	35	80
31	III	112420114354	NIRANJAN KUMAR M	35	90
32	III	112420114355	NIRMAL KUMAR G	35	90
33	III	112420114356	NITHISH B	35	90
34	III	112420114357	PADAIYAPPA M	35	80
35	III	112420114358	PARTHIBAN R	35	95
36	III	112420114359	PINEGASH R	35	95
37	III	112420114360	PRASANTH P	35	90
38	III	112420114361	PRATHAP KUMAR P	35	90
39	III	112420114362	PRATHIP RAJAN P	35	80
40	III	112420114363	PRAVEENKUMAR S	35	80
41	III	112420114364	PRAVEEN KUMAR S	35	85
42	III	112420114365	PRAVEEN RAJ S	35	85
43	III	112420114366	PRITHIVIRAJ V	35	80



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S.No	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
44	III	112420114367	RAHUL V	35	80
45	III	112420114368	RAJA BARTH KUMAR S	35	80
46	III	112420114369	RAJAN P	35	85
47	III	112420114370	RAJAVEL S	35	85
48	III	112420114371	RAJESH KUMAR R	35	85
49	III	112420114372	RAJKUMAR S	35	85
50	III	112420114373	RAKHESH KUMAAR A P R	35	90
51	III	112420114374	RAMANA G	35	90
52	III	112420114375	RITHIKROSHAN.K	35	80
53	III	112420114376	RUBAN KUMAR M	35	80
54	III	112420114377	SAKTHIVEL D	35	80
55	III	112420114378	SAKTHIVEL K	35	85
56	III	112420114379	SAKTHIVEL M	35	85
57	III	112420114380	SAKTHIVEL S	35	85
58	III	112420114381	SAMUVEL RAJ M	35	90
59	III	112420114382	SANTHOSH KUMARAN AR	35	90
60	III	112420114383	SARAN V	35	95
61	III	112420114385	SARANRAJ R	35	95
62	III	112420114386	SARAVANAKUMAR M	35	90
63	III	112420114387	SARAVANA KUMAR G	35	90
64	III	112420114388	SARAVANAN D	35	95
65	III	112420114389	SATHISHWARAN E	35	95
66	III	112420114390	SATHROCK D	35	80
67	III	112420114391	SEDHU BALAJI	35	80
68	III	112420114392	SELVAKUMAR D	35	90



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S.No	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
69	III	112420114394	SIVAPRAKASAM C	35	90
70	III	112420114395	STEPHENRAJ J	35	90
71	III	112420114396	SUNILKUMAR S	35	95
72	III	112420114397	SURIYA P	35	90
73	III	112420114398	TAMILARASASU D	35	80
74	III	112420114399	THIRUMALAI R	35	80
75	III	112420114400	UDHAYA KUMAR K	35	80
76	III	112420114401	UMA SHANKAR SK	35	80
77	III	112420114402	VASANTH P	35	90
78	III	112420114403	VASANTHA KUMAR G	35	95
79	III	112420114404	VASU V	35	95
80	III	112420114405	VELU S	35	80
81	III	112420114406	VENKATESAN K	35	80
82	III	112420114407	VIGNESH D	35	80
83	III	112420114408	VIGNESH P	35	90
84	III	112420114409	VIGNESH R	35	90
85	III	112420114410	VIGNESH S	35	80
86	III	112420114411	VIGNESH S	35	95
87	III	112420114413	VIJAY K	35	95
88	III	112420114414	VINEETHKUMAR R	35	90
89	III	112420114415	VINOTHKUMAR V	35	90
90	III	112420114416	VISHVA S	35	90
91	III	112420114417	VISWANATHAN A	35	80
92	III	112420114418	YOKES R	35	80
93	III	112420114419	YUVARAJ N	35	90



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S.No	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
94	III	112420114420	YUVARAJ R	35	80
95	III	112420114421	YUVARAJ T	35	80
96	III	112420114422	EZEKIEL A	35	80
97	III	112420114423	JAGADEESHWARAN Y	35	90
98	III	112420114424	NITHISH M	35	90
99	IV	112419114001	ABINASH.S	35	95
100	IV	112419114002	ANGARAJA.K	35	95
101	IV	112419114003	BHUVANESH M	35	95
102	IV	112419114004	CHANDRU M	35	90
103	IV	112419114005	CHARLESS M	35	80
104	IV	112419114006	DEVA SUNDAR	35	80
105	IV	112419114007	DHANUSH M	35	80
106	IV	112419114009	DINESH KUMAR M	35	80
107	IV	112419114010	GANAPATHY K	35	95
108	IV	112419114011	GAYATHRI V	35	95
109	IV	112419114012	HARIHARAN R	35	95
110	IV	112419114013	HARIHARAN S	35	90
111	IV	112419114014	KARTHICKRAJ V	35	80
112	IV	112419114015	KRISHNAMOORTHY D	35	80
113	IV	112419114016	MANIKANDAN M	35	80
114	IV	112419114017	MANISHANKAR B	35	85
115	IV	112419114018	MOHAMMED IMRAN D	35	80
116	IV	112419114019	MUTHAMIZH I	35	80
117	IV	112419114021	NAVEEN G	35	90
118	IV	112419114022	PRAKASH K	35	95



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119	IV	112419114024	SARAVANAN J	35	80
120	IV	112419114025	VENKATESH I	35	80
121	IV	112419114026	YUVARAJ M	35	80
122	IV	112419114301	ADITHIYAN V	35	80
123	IV	112419114303	ANISH S	35	90
124	IV	112419114304	BHEEMRAO D	35	90
125	IV	112419114306	BHARATH P	35	95
126	IV	112419114307	DILLI BABU DS	35	90
127	IV	112419114308	DILLI BABU S	35	90
128	IV	112419114309	DINESH M	35	80
129	IV	112419114310	DINESH KUMAR T	35	80
130	IV	112419114311	ESSAKICHANDRAN P	35	95
131	IV	112419114312	GANESH R	35	95
132	IV	112419114314	HARISH KUMAR V	35	90
133	IV	112419114315	JAGADISH R	35	85
134	IV	112419114316	JENESH KUMAR M	35	85
135	IV	112419114317	KANAGARAJ G	35	85
136	IV	112419114318	MURALI K	35	80
137	IV	112419114319	NAVEEN KUMAR R	35	80
138	IV	112419114320	NAVEEN KUMAR B	35	80
139	IV	112419114322	PRADEEP K	35	90
140	IV	112419114323	PRAVEEN P	35	90
141	IV	112419114324	RAJAMANI P	35	85
142	IV	112419114325	RAJKUMAR J	35	85
143	IV	112419114326	RAJAKUMAR S	35	90



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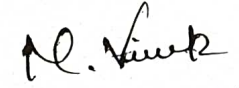
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145	IV	112419114329	SATHEESH MB	35	80
146	IV	112419114330	SEENU KUMAR K	35	80
147	IV	112419114331	SETHUPANDIAN K	35	90
148	IV	112419114332	VIKRAM N	35	90


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HOD/MECHANICAL
(Mr.M.Vinoth)




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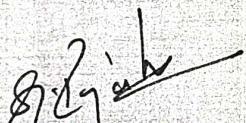
CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms **G. KARAN (112420114336)**.....

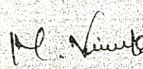
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Added Course titled 'CNC MACHINING & PROGRAMMING'

held from 06.02.2023 to 11.02.2023


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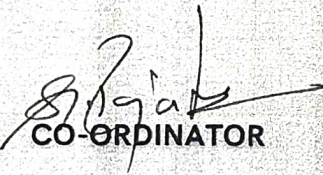
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This is to certify that Mr/~~Ms~~ **D. LOKESH (112420114341)**.....

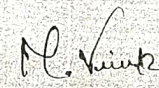
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This is to certify that Mr/Ms **M: CHANDRU (112419114004)**.....

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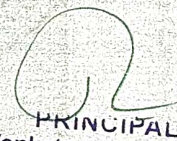
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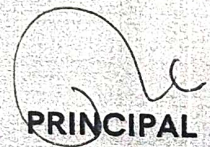

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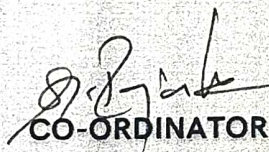
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This is to certify that Mr/Ms **R. PARTHIBAN (112420114358).....**

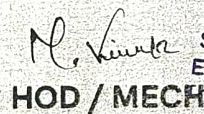
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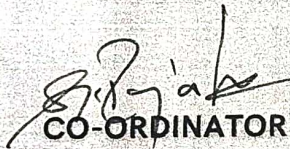
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This is to certify that Mr/~~Ms~~ **M. DHANUSH (112419114007)**.....


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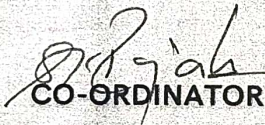
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This is to certify that Mr/Ms **G. NAVEEN (112419114021)**.....

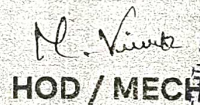
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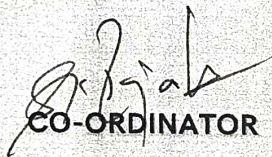
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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms **K.MURALI (112419114318)**.....

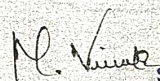
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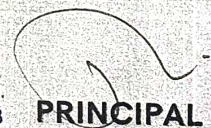

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