



SRI VENKATESWARA

COLLEGE OF ENGINEERING AND TECHNOLOGY

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

21MECHVAC02 - CRYOGENIC ENGINEERING

EVENT REPORT

Name of the Course: CRYOGENIC ENGINEERING

Name of the Instructor: Mr.M. Vinoth, Assistant Professor, SVCET

Mr.P. Tamilselvan , Assistant Professor,SVCET

Year and Branch: II,III, & IV-MECHANICAL ENGINEERING

Duration of Course: 32 Hrs (04.04.2022 - 09.04.2022)

SUMMARY OF THE EVENT:

The Course was inaugurated on 04.04.2022 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 by 2.30 09.04.2022 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 “Cryogenic Engineering”

ASSESSMENT MODE:

No of Students Enrolled:122

Scheme of Exam: Offline

No of Students appeared:122

No of Students Passed:122

Date of Exam: 09.04.2022

OUTCOME:

- The student can identify different areas of Cryogenic Engineering
- Can find the applications of all the areas in Industries.


COORDINATOR
(Mr.S.Sridharan)




HOD / MECHANICAL
(Mr.M.Vinoth)


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21MECHVAC02 - CRYOGENIC ENGINEERING



**Value Added Course on Cryogenic Engineering Handled by Mr.M.Vinoth and
Mr.P.Tamilselvan**




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REQUEST LETTER

From

Mr M. Vinoth
HOD /MECHANICAL
SVCET
Thirupachur.

To

The Principal
SVCET
Thirupachur

*Permitted
J.V.*

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 “**Cryogenic Engineering**” 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 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 04.04.2022 and end on 09.04.2022 (32Hrs). Will be handled **Mr.M.Vinoth, Assistant Professor, SVCET and Mr.P.Tamilselvan, Assistant Professor, SVCET**. 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

M. Vinoth
HOD / MECHANICAL

(Mr.M. Vinoth)



J.V.
PRINCIPAL

(Dr.J. Venkatesh)

J.V.
PRINCIPAL

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28.03.2022

CIRCULAR

The department of Mechanical Engineering will be conducting value added course on “Cryogenic Engineering” from 04.04.2022 to 09.04.2022 (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. Jaisingh Durai, Assistant Professor, Department of Mechanical Engineering on or before 31.03.2022

HOD / MECHANICAL

(Mr.M. Vinoth)

PRINCIPAL

(Dr.J. Venkatesh)



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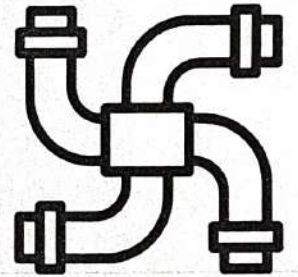


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**DEPARTMENT OF MECHANICAL ENGINEERING
CRYOGENIC ENGINEERING**

Date : 04.04.2022 - 09.04.2022



RESOURCE PERSON

1. Mr. M. Vinoth / Asst Prof / SVCET
2. Mr. P. Tamilselvan /Asst Prof / SVCET



Mr. M. Vinoth
HOD / MECH


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Dr.J. Venkatesh
PRINCIPAL



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RESOURCE PERSON PROFILE

Resource Person: 1

Name : Mr.M. Vinoth
Designation : Assistant Professor
Department : Mechanical Engineering
Organization : Sri Venkateswara College of Engineering and Technology
Phone Number : 9894971302
Email.ID : vinoth.m02@gmail.com
Qualification : M.E
Experience : 10Years

Resource Person: 2

Name : Mr.P. Tamilselvan
Designation : Assistant Professor
Department : Mechanical Engineering
Organization : Sri Venkateswara College of Engineering and Technology
Phone Number : 8610038329
Email.ID : tamilelvantamil.p@gmail.com
Qualification : M.E
Experience : 13 Years




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21MECHVAC02 - CRYOGENIC ENGINEERING
COURSE CONTENT

OBJECTIVES

- To provide the knowledge of evolution of low temperature science
- To provide knowledge on the properties of materials at low temperature
- To familiarize with various gas liquefaction and refrigeration systems and to provide design aspects of cryogenic storage and transfer line

MODULE-I – INTRODUCTION TO CRYOGENIC SYSTEMS

Historical development, Applications of Cryogenics (Space, Food Processing, Super conductivity, Electrical Power, Biology, Medicine, Electronics and Cutting Tool Industry). Low Temperature Properties: Properties of Engineering Materials (Mechanical properties, Thermal properties, Electric and Magnetic properties), Properties of Cryogenic fluids.

MODULE-II- INTRODUCTION TO LIQUEFACTION SYSTEMS & CRYOGENIC REFRIGERATION SYSTEMS

Introduction to Liquefaction Systems Ideal system, Joule Thomson expansion, Adiabatic expansion, Linde Hampson Cycle, Claude & Cascaded System. Introduction to Cryogenic Refrigeration Systems: Magnetic Cooling, Stirling Cycle Cryo Coolers

MODULE-III-GAS LIQUEFACTION SYSTEMS

General liquefaction systems. Liquefaction systems for Neon, Hydrogen and Helium. Critical components of liquefaction systems

MODULE-IV-CRYOGENIC REFRIGERATION SYSTEMS

Ideal refrigeration systems, Refrigeration using liquids and gases as refrigerant, Refrigerators using solids as working media, Cryo Pumping Applications.

MODULE-V-CRYOGENIC FLUID STORAGE AND TRANSFER SYSTEMS

Cryogenic storage vessels and transportation. Thermal insulation and their performance at cryogenic temperatures, Super insulations, Vacuum insulation, Powder insulation. Cryogenic fluid transfer systems

OUTCOMES:

- To gain knowledge and to understand the scope and history of cryogenics. To understand the properties of materials at low temperature applying fundamental knowledge.

COORDINATOR

Mr.S.Sridharan

Thirupachur

Pin : 631 203

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HOD / MECHANICAL

(Mr.M.Vinoth)



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21MECHVAC01 - CRYOGENIC ENGINEERING
COURSE SCHEDULE

6 Days Training Schedule – CRYOGENIC ENGINEERING			
Day & Date	Session & Time	Speaker Name	Session Topics
Day 1 & 19.07.2021	8.30 am to 10.30am	Mr.M. Vinoth, AP, SVCET	Introduction to cryogenic systems
	10.45 am to 12.45 pm	Mr.P. Tamilselvan, AP, SVCET	Historical development, Applications of Cryogenics (Space, Food Processing, Super conductivity, Electrical Power, Biology, Medicine, Electronics and Cutting Tool Industry).
	1.30 pm to 3.30pm	Mr.M. Vinoth, AP, SVCET	Low Temperature Properties: Properties of Engineering Materials (Mechanical properties,
Day 2 & 20.07.2021	8.30 am to 10.30am	Mr.P. Tamilselvan, AP, SVCET	Thermal properties, Electric and Magnetic properties), Properties of Cryogenic fluids.
	10.45 am to 12.45 pm	Mr.M. Vinoth, AP, SVCET	Introduction to Liquefaction Systems
	1.30 pm to 2.30pm	Mr.P. Tamilselvan, AP, SVCET	Ideal system, Joule Thomson expansion, Adiabatic expansion, Linde Hampson Cycle,
Day 3 & 21.07.2021	8.30 am to 10.30am	Mr.M. Vinoth, AP, SVCET	Claude & Cascaded System. Introduction to Cryogenic Refrigeration Systems:
	10.45 am to 12.45 pm	Mr.P. Tamilselvan, AP, SVCET	Magnetic Cooling, Stirling Cycle Cryo Coolers General liquefaction systems.
	1.30 pm to 2.30pm	Mr.M. Vinoth, AP, SVCET	Liquefaction systems for Neon, Hydrogen and Helium.
Day 4 & 22.07.2021	8.30 am to 10.30am	Mr.P. Tamilselvan, AP, SVCET	Critical components of liquefaction systems
	10.45 am to 12.45 pm	Mr.M. Vinoth, AP, SVCET	Ideal refrigeration systems, Refrigeration using liquids and gases as refrigerant,
	1.30 pm to 2.30pm	Mr.P. Tamilselvan, AP, SVCET	Refrigerators using solids as working media
Day 5 & 23.07.2021	8.30 am to 10.30am	Mr.M. Vinoth, AP, SVCET	Cryo Pumping Applications.



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	10.45 am to 12.45 pm	Mr.P. Tamilselvan, AP, SVCET	Cryogenic storage vessels and transportation
	1.30 pm to 3.30pm	Mr.M. Vinoth, AP, SVCET	Thermal insulation and their performance at cryogenic temperatures, ,
Day 6 & 24.07.2021	8.30 am to 10.30am	Mr.P. Tamilselvan, AP, SVCET	Super insulations, Vacuum insulation
	10.45 am to 12.45 pm	Mr.M. Vinoth, AP, SVCET	Powder insulation. Cryogenic fluid transfer systems
	1.30 pm to 2.30pm	Mr.P. Tamilselvan, AP, SVCET	Test


COORDINATOR
(Mr.S.Sridharan)


HOD / MECHANICAL
(Mr.M.Vinoth)




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21MECHVAC02 - CRYOGENIC ENGINEERING

Course Code	21MECHVAC02
Name of the Course	CRYOGENIC ENGINEERING
Duration of the Course	32 HOURS
Academic Year	2021-22
Period of the Course	04.04.2022 TO 09.04.2022

LIST OF STUDENTS ENROLLED

S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	SIGNATURE
1	II	112420114417	VISWANATHAN A	viswanathan A
2	II	112420114418	YOKES R	yokes r
3	II	112420114419	YUVARAJ N	yuvraj n
4	II	112420114420	YUVARAJ R	yuvraj R.
5	II	112420114421	YUVARAJ T	T yuvraj
6	II	112420114422	EZEKIEL A	Ezekiel A
7	II	112420114423	JAGADEESHWARAN Y	Sagaran Y
8	II	112420114424	NITHISH M	M. nithish
9	III	112419114001	ABINASH.S	Abinash S.
10	III	112419114002	ANGARAJA.K	Angaraja K
11	III	112419114003	BHUVANESH M	m. bhuvanesh
12	III	112419114004	CHANDRU M	m. chandru
13	III	112419114005	CHARLESS M	Chann m
14	III	112419114006	DEVA SUNDAR	Deva Sundar
15	III	112419114007	DHANUSH M	Dhanush M.
16	III	112419114009	DINESH KUMAR M	Dinesh M
17	III	112419114010	GANAPATHY K	K ganapathy
18		112419114011	GAYATHRI V	Gayathri V



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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	SIGNATURE
19	III	112419114012	HARIHARAN R	R. Hariharan
20	III	112419114013	HARIHARAN S	Hariharan S
21	III	112419114014	KARTHICKRAJ V	V. Karthickraj
22	III	112419114015	KRISHNAMOORTHY D	Krishnamoorthy D
23	III	112419114016	MANIKANDAN M	M. Manikandan
24	III	112419114017	MANISHANKAR B	B. Manishankar
25	III	112419114018	MOHAMMED IMRAN D	Mohammed Imran D
26	III	112419114019	MUTHAMIZH I	Muthamizh I
27	III	112419114021	NAVEEN G	G. Naveen
28	III	112419114022	PRAKASH K	Prakash K
29	III	112419114024	SARAVANAN J	Saravanan J
30	III	112419114025	VENKATESH I	I. Venkatesh
31	III	112419114026	YUVARAJ M	M. Yuvaraj
32	III	112419114301	ADITHIYAN V	A. Adithyan V
33	III	112419114303	ANISH S	S. Anish
34	III	112419114304	BEEMRAO D	Beemrao D
35	III	112419114306	BHARATH P	P. Bharath
36	III	112419114307	DILLI BABU DS	P. Dilli Babu DS
37	III	112419114308	DILLI BABU S	Dilli Babu S
38	III	112419114309	DINESH M	M. Dinesh
39	III	112419114310	DINESH KUMAR T	T. Dinesh Kumar
40	III	112419114311	ESSAKICHANDRAN P	P. Essakichandran
41	III	112419114312	GANESH R	R. Ganesh
42	III	112419114314	HARISH KUMAR V	V. Harish Kumar
43	III	112419114315	JAGADISH R	R. Jagadish



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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	SIGNATURE
44	III	112419114316	JENESH KUMAR M	Jenesh.
45	III	112419114317	KANAGARAJ G	Kanagaraj G.
46	III	112419114318	MURALI K	Murali K.
47	III	112419114319	NAVEEN KUMAR R	Naveen R.
48	III	112419114320	NAVEEN KUMAR B	Naveen B.
49	III	112419114321	PARTIBAN S	Partiban S.
50	III	112419114322	PRADEEP K	Pradeep K.
51	III	112419114323	PRAVEEN P	Praveen P.
52	III	112419114324	RAJAMANI P	Rajamani P.
53	III	112419114325	RAJKUMAR J	Rajkumar J.
54	III	112419114326	RAJAKUMAR S	Rajakumar S.
55	III	112419114327	RAKESH S	Rakesh S.
56	III	112419114328	SARAVANAN A	Saravanan A.
57	III	112419114329	SATHEESH MB	Satheesh MB.
58	III	112419114330	SEENU KUMAR K	Seenu K.
59	III	112419114331	SETHUPANDIAN K	Sethupandian K.
60	III	112419114332	VIKRAM N	Vikram N.
61	IV	112418114001	ABDUL HAMEED J	Abdul Hameed J.
62	IV	112418114002	ABEL J	Abel J.
63	IV	112418114003	ANANDHAN V	Anandhan V.
64	IV	112418114004	ARAVINTH S	Aravinth S.
65	IV	112418114006	BALAJI M	Balaji M.
66	IV	112418114007	BRAITON P	Braiton P.
67	IV	112418114008	CHANDRU K	Chandru K.
	IV	112418114009	CHANDRU M	Chandru M.



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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	SIGNATURE
69	IV	112418114010	DEVAJEEVAN P	Deva Jeevan P
70	IV	112418114011	DEVAPRIYAN A	A. Deva
71	IV	112418114012	DHAVID EARNEST ALLWIN L	D. Earnest
72	IV	112418114013	GOPALAKRISHNAN K	G. Gopalakrishnan
73	IV	112418114014	HEMANTH I	Hemanth I
74	IV	112418114015	JAISANKAR P	P. Jaisankar
75	IV	112418114016	JAYAPRAKASH S	Jaya Prakash
76	IV	112418114017	KAMALA KANNAN S	Kamalakanth
77	IV	112418114018	KAMESH R	R. Kamesh
78	IV	112418114019	KARANT	Karan T
79	IV	112418114020	KISHORE V	V. Kishore
80	IV	112418114021	LOGESH V	Lokesh V
81	IV	112418114023	NAVEENKUMAR N	N. Naveen
82	IV	112418114024	NIKESH D	Nikesh D
83	IV	112418114025	PERARASAN A	A. Perarasan
84	IV	112418114026	RAKUL M	Rakul M.
85	IV	112418114027	SANJAY A	A. Sanjay
86	IV	112418114028	SANJAY H	Sanjay H
87	IV	112418114029	SANTHOSH P S	S. Santhosh
88	IV	112418114030	SARANKUMAR E	Sarankumar
89	IV	112418114031	SATHISH P	P. Sathish
90	IV	112418114032	SATHISH S	Sathish S
91	IV	112418114033	SELVAM D	D. Selvam
92	IV	112418114034	SHIJIN M	Shijin M
		112418114035	SIVAKUMAR B	B. Sivakumar



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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	SIGNATURE
94	IV	112418114036	TAMIL ARASAN M	Tamil Arasan M
95	IV	112418114038	VIGNESH A	Vignesh A
96	IV	112418114040	VINOTH KUMAR M	Vinoth Kumar M
97	IV	112418114041	VINOTH KUMAR S	Vinoth S
98	IV	112418114301	AKASH.M	Akash M
99	IV	112418114304	BHARATHI RAJ.N	Bharathi Raj N
100	IV	112418114305	BUVENESH KUMAR.N	Buvenesh N
101	IV	112418114306	CHANDRU.M	Chandru M
102	IV	112418114308	DINESHKUMAR.V	Dinesh V
103	IV	112418114311	KARTHIKEYAN.R	Karthikeyan R
104	IV	112418114313	LAKSHMANAN.M	Lakshmanan M
105	IV	112418114314	MAHESHWARAN.S	Maheshwaran S
106	IV	112418114315	MOHAN.C	Mohan C
107	IV	112418114316	NAGARAJAN.S	Nagarajan S
108	IV	112418114317	NANDHAN.S	Nandhan S
109	IV	112418114318	NAVEEN.A	Naveen A
110	IV	112418114321	PRATHAP.L	Prathap L
111	IV	112418114323	RAGUL.S	Ragul S
112	IV	112418114324	RAJESH.R	Rajesh R
113	IV	112418114325	RAKESH.K	Rakesh K
114	IV	112418114326	RAMAN.D	Raman D
115	IV	112418114327	ROSHAN RAJ.R.M	Roshan Raj R M
116	IV	112418114328	SARATH.Y	Sarath Y
117	IV	112418114332	SOUNDARRAJE	Soundaraje
118	IV	112418114333	SUGUMAR	Sugumar J



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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
19	III	112419114012	HARIHARAN R	32	80
20	III	112419114013	HARIHARAN S	32	95
21	III	112419114014	KARTHICKRAJ V	32	85
22	III	112419114015	KRISHNAMOORTHY D	32	80
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28	III	112419114022	PRAKASH K	32	85
29	III	112419114024	SARAVANAN J	32	80
30	III	112419114025	VENKATESH I	32	85
31	III	112419114026	YUVARAJ M	32	90
32	III	112419114301	ADITHIYAN V	32	90
33	III	112419114303	ANISH S	32	95
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36	III	112419114307	DILLI BABU DS	32	89
37	III	112419114308	DILLI BABU S	32	95
38	III	112419114309	DINESH M	32	90
39	III	112419114310	DINESH KUMAR T	32	90
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41	III	112419114312	GANESH R	32	90
42	III	112419114314	HARISH KUMAR V	32	80
43	III	112419114315	JAGADISH R	32	87



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48	III	112419114320	NAVEEN KUMAR B	32	85
49	III	112419114321	PARTIBAN S	32	90
50	III	112419114322	PRADEEP K	32	90
51	III	112419114323	PRAVEEN P	32	85
52	III	112419114324	RAJAMANI P	32	90
53	III	112419114325	RAJKUMAR J	32	90
54	III	112419114326	RAJAKUMAR S	32	90
55	III	112419114327	RAKESH S	32	85
56	III	112419114328	SARAVANAN A	32	80
57	III	112419114329	SATHEESH MB	32	95
58	III	112419114330	SEENU KUMAR K	32	90
59	III	112419114331	SETHUPANDIAN K	32	80
60	III	112419114332	VIKRAM N	32	90
61	IV	112418114001	ABDUL HAMEED J	32	95
62	IV	112418114002	ABEL J	32	95
63	IV	112418114003	ANANDHAN V	32	85
64	IV	112418114004	ARAVINTH S	32	90
65	IV	112418114006	BALAJI M	32	92
66	IV	112418114007	BRAITON P	32	95
67	IV	112418114008	CHANDRU K	32	95
68	IV	112418114009	CHANDRU M	32	80



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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
69	IV	112418114010	DEVAJEEVAN P	32	85
70	IV	112418114011	DEVAPRIYAN A	32	80
71	IV	112418114012	DHAVID EARNEST ALLWIN L	32	90
72	IV	112418114013	GOPALAKRISHNAN K	32	95
73	IV	112418114014	HEMANTH I	32	90
74	IV	112418114015	JAISANKAR P	32	85
75	IV	112418114016	JAYAPRAKASH S	32	90
76	IV	112418114017	KAMALA KANNAN S	32	95
77	IV	112418114018	KAMESH R	32	90
78	IV	112418114019	KARAN T	32	85
79	IV	112418114020	KISHORE V	32	85
80	IV	112418114021	LOGESH V	32	90
81	IV	112418114023	NAVEENKUMAR N	32	95
82	IV	112418114024	NIKESH D	32	80
83	IV	112418114025	PERARASAN A	32	90
84	IV	112418114026	RAKUL M	32	95
85	IV	112418114027	SANJAY A	32	95
86	IV	112418114028	SANJAY H	32	90
87	IV	112418114029	SANTHOSH P S	32	85
88	IV	112418114030	SARANKUMAR E	32	85
89	IV	112418114031	SATHISH P	32	95
90	IV	112418114032	SATHISH S	32	80
91	IV	112418114033	SELVAM D	32	80
92	IV	112418114034	SHIJIN M	32	95
93	IV	112418114035	SIVAKUMAR B	32	90



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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
94	IV	112418114036	TAMIL ARASAN M	32	85
95	IV	112418114038	VIGNESH A	32	90
96	IV	112418114040	VINOTH KUMAR M	32	90
97	IV	112418114041	VINOTH KUMAR S	32	95
98	IV	112418114301	AKASH.M	32	95
99	IV	112418114304	BHARATHI RAJ.N	32	90
100	IV	112418114305	BUVENESH KUMAR.N	32	95
101	IV	112418114306	CHANDRU.M	32	85
102	IV	112418114308	DINESHKUMAR.V	32	80
103	IV	112418114311	KARTHIKEYAN.R	32	95
104	IV	112418114313	LAKSHMANAN.M	32	90
105	IV	112418114314	MAHESHWARAN.S	32	80
106	IV	112418114315	MOHAN.C	32	80
107	IV	112418114316	NAGARAJAN.S	32	95
108	IV	112418114317	NANDHAN.S	32	95
109	IV	112418114318	NAVEEN.A	32	80
110	IV	112418114321	PRATHAP.L	32	90
111	IV	112418114323	RAGUL.S	32	90
112	IV	112418114324	RAJESH.R	32	95
113	IV	112418114325	RAKESH.K	32	90
114	IV	112418114326	RAMAN.D	32	85
115	IV	112418114327	ROSHAN RAJ.R.M	32	95
116	IV	112418114328	SARATH.Y	32	90
117	IV	112418114332	SOUNDARRAJE	32	90
118	IV	112418114333	SUGUMAR.J	32	95



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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	SIGNATURE
119	IV	112418114334	SURENDAR.B	<i>Surendar B</i>
120	IV	112418114336	VENKAT.M.A	<i>A.Venkatesh</i>
121	IV	112418114338	VINOTH.V	<i>Vinoth V</i>
122	IV	112418114339	YADESH.B	<i>Yadesh B</i>

[Signature]
COORDINATOR
(Mr.S.Sridharan)

[Signature]
HOD / MECHANICAL
(Mr.M.Vinoth)



[Signature]
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21MECHVAC02 - CRYOGENIC ENGINEERING

Course Code	21MECHVAC02
Name of the Course	CRYOGENIC ENGINEERING
Duration of the Course	32 HOURS
Academic Year	2021-22
Period of the Course	04.04.2022 TO 09.04.2022

ATTENDANCE

S.N O	YE AR	REGISTER NUMBER	NAME OF STUDENTS	04.04.22		05.04.22		06.04.22		07.04.22		08.04.22		09.04.22		TOTAL HOURS (32)
				6 HOURS		5 HOURS		5 HOURS		5 HOURS		6 HOURS		5 HOURS		
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
1	II	112420114417	VISWANATHAN A	Viswa	Viswa	Viswa	Viswa	Viswa	Viswa	Viswa	Viswa	Viswa	Viswa	Viswa	32	
2	II	112420114418	YOKES R	Yokesh	Yokesh	Yokesh	Yokesh	Yokesh	Yokesh	Yokesh	Yokesh	Yokesh	Yokesh	Yokesh	32	
3	II	112420114419	YUVARAJ N	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	32	
4	II	112420114420	YUVARAJ R	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	32	
5	II	112420114421	YUVARAJ T	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	32	
6	II	112420114422	EZEKIEL A	Ezekiel	Ezekiel	Ezekiel	Ezekiel	Ezekiel	Ezekiel	Ezekiel	Ezekiel	Ezekiel	Ezekiel	Ezekiel	32	
7	II	112420114423	JAGADEESHWAR RAN Y	Jagadeesh	Jagadeesh	Jagadeesh	Jagadeesh	Jagadeesh	Jagadeesh	Jagadeesh	Jagadeesh	Jagadeesh	Jagadeesh	Jagadeesh	32	
8	II	112420114424	NITHISH M	Nithish	Nithish	Nithish	Nithish	Nithish	Nithish	Nithish	Nithish	Nithish	Nithish	Nithish	32	
9	III	112419114001	ABINASH S	Abinash	Abinash	Abinash	Abinash	Abinash	Abinash	Abinash	Abinash	Abinash	Abinash	Abinash	32	
10	III	112419114002	ANGARAJA K	Angaraja	Angaraja	Angaraja	Angaraja	Angaraja	Angaraja	Angaraja	Angaraja	Angaraja	Angaraja	Angaraja	32	
11	III	112419114003	BHUVANESH M	Bhuvanesh	Bhuvanesh	Bhuvanesh	Bhuvanesh	Bhuvanesh	Bhuvanesh	Bhuvanesh	Bhuvanesh	Bhuvanesh	Bhuvanesh	Bhuvanesh	32	
12	III	112419114004	CHANDRU M	Chandru	Chandru	Chandru	Chandru	Chandru	Chandru	Chandru	Chandru	Chandru	Chandru	Chandru	32	
13	III	112419114005	CHARLESS M	Charless	Charless	Charless	Charless	Charless	Charless	Charless	Charless	Charless	Charless	Charless	32	
14	III	112419114006	DEVA SUNDAR	Deva	Deva	Deva	Deva	Deva	Deva	Deva	Deva	Deva	Deva	Deva	32	
15	III	112419114007	DHANUSH M	Dhanush	Dhanush	Dhanush	Dhanush	Dhanush	Dhanush	Dhanush	Dhanush	Dhanush	Dhanush	Dhanush	32	
	III	112419114009	DINESH KUMAR M	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	32	



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				6 HOURS		5 HOURS		5 HOURS		5 HOURS		6 HOURS		5 HOURS		
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
17	III	112419114010	GANAPATHY K	Ganap	Ganap	Ganap	Ganap	Ganap	Ganap	Ganap	Ganap	Ganap	Ganap	Ganap	Ganap	32
18	III	112419114011	GAYATHRI V	Gayath	Gayath	Gayath	Gayath	Gayath	Gayath	Gayath	Gayath	Gayath	Gayath	Gayath	Gayath	32
19	III	112419114012	HARIHARAN R	Hari	Hari	Hari	Hari	Hari	Hari	Hari	Hari	Hari	Hari	Hari	Hari	32
20	III	112419114013	HARIHARAN S	S.hari	S.hari	S.hari	S.hari	S.hari	S.hari	S.hari	S.hari	S.hari	S.hari	S.hari	S.hari	32
21	III	112419114014	KARTHICKRAJ V	Kvj	Kvj	Kvj	Kvj	Kvj	Kvj	Kvj	Kvj	Kvj	Kvj	Kvj	Kvj	32
22	III	112419114015	KRISHNAMOOR THY D	krishna	krishna	krishna	krishna	krishna	krishna	krishna	krishna	krishna	krishna	krishna	krishna	32
23	III	112419114016	MANIKANDAN M	Mani	Mani	Mani	Mani	Mani	Mani	Mani	Mani	Mani	Mani	Mani	Mani	32
24	III	112419114017	MANISHANKAR B	Mani	Mani	Mani	Mani	Mani	Mani	Mani	Mani	Mani	Mani	Mani	Mani	32
25	III	112419114018	MOHAMMED IMRAN D	Imran	Imran	Imran	Imran	Imran	Imran	Imran	Imran	Imran	Imran	Imran	Imran	32
26	III	112419114019	MUTHAMIZH I	Mutha	Mutha	Mutha	Mutha	Mutha	Mutha	Mutha	Mutha	Mutha	Mutha	Mutha	Mutha	32
27	III	112419114021	NAVEEN G	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	32
28	III	112419114022	PRAKASH K	Prakash	Prakash	Prakash	Prakash	Prakash	Prakash	Prakash	Prakash	Prakash	Prakash	Prakash	Prakash	32
29	III	112419114024	SARAVANAN J	Sarav	Sarav	Sarav	Sarav	Sarav	Sarav	Sarav	Sarav	Sarav	Sarav	Sarav	Sarav	32
30	III	112419114025	VENKATESH I	Venka	Venka	Venka	Venka	Venka	Venka	Venka	Venka	Venka	Venka	Venka	Venka	32
31	III	112419114026	YUVARAJ M	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	Yuvaraj	32
32	III	112419114301	ADITHIYAN V	Adithi	Adithi	Adithi	Adithi	Adithi	Adithi	Adithi	Adithi	Adithi	Adithi	Adithi	Adithi	32
33	III	112419114303	ANISH S	Anish	Anish	Anish	Anish	Anish	Anish	Anish	Anish	Anish	Anish	Anish	Anish	32
34	III	112419114304	BEEMRAO D	Beemrao	Beemrao	Beemrao	Beemrao	Beemrao	Beemrao	Beemrao	Beemrao	Beemrao	Beemrao	Beemrao	Beemrao	32
35	III	112419114306	BHARATH P	Bharath	Bharath	Bharath	Bharath	Bharath	Bharath	Bharath	Bharath	Bharath	Bharath	Bharath	Bharath	32
36	III	112419114307	DILLI BABU DS	Dilli	Dilli	Dilli	Dilli	Dilli	Dilli	Dilli	Dilli	Dilli	Dilli	Dilli	Dilli	32
37	III	112419114308	DILLI BABU S	Dilli	Dilli	Dilli	Dilli	Dilli	Dilli	Dilli	Dilli	Dilli	Dilli	Dilli	Dilli	32



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				6 HOURS		5 HOURS		5 HOURS		5 HOURS		6 HOURS		5 HOURS		
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
38	III	112419114309	DINESH M	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	32
39	III	112419114310	DINESH KUMAR T	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	32
40	III	112419114311	ESSAKICHAND RAN P	ER	ER	ER	ER	ER	ER	ER	ER	ER	ER	ER	ER	32
41	III	112419114312	GANESH R	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	32
42	III	112419114314	HARISH KUMAR V	H.Kum	H.Kum	H.Kum	H.Kum	H.Kum	H.Kum	H.Kum	H.Kum	H.Kum	H.Kum	H.Kum	H.Kum	32
43	III	112419114315	JAGADISH R	Jaga	Jaga	Jaga	Jaga	Jaga	Jaga	Jaga	Jaga	Jaga	Jaga	Jaga	Jaga	32
44	III	112419114316	JENESH KUMAR M	Jenesh	Jenesh	Jenesh	Jenesh	Jenesh	Jenesh	Jenesh	Jenesh	Jenesh	Jenesh	Jenesh	Jenesh	32
45	III	112419114317	KANAGARAJ G	Kanath	Kanath	Kanath	Kanath	Kanath	Kanath	Kanath	Kanath	Kanath	Kanath	Kanath	Kanath	32
46	III	112419114318	MURALI K	Murali	Murali	Murali	Murali	Murali	Murali	Murali	Murali	Murali	Murali	Murali	Murali	32
47	III	112419114319	NAVEEN KUMAR R	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	32
48	III	112419114320	NAVEEN KUMAR B	NK	NK	NK	NK	NK	NK	NK	NK	NK	NK	NK	NK	32
49	III	112419114321	PARTIBAN S	Parti	Parti	Parti	Parti	Parti	Parti	Parti	Parti	Parti	Parti	Parti	Parti	32
50	III	112419114322	PRADEEP K	Pradeep	Pradeep	Pradeep	Pradeep	Pradeep	Pradeep	Pradeep	Pradeep	Pradeep	Pradeep	Pradeep	Pradeep	32
51	III	112419114323	PRAVEEN P	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	32
52	III	112419114324	RAJAMANI P	Rajam	Rajam	Rajam	Rajam	Rajam	Rajam	Rajam	Rajam	Rajam	Rajam	Rajam	Rajam	32
53	III	112419114325	RAJKUMAR J	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj	32
54	III	112419114326	RAJAKUMAR S	Rajkum	Rajkum	Rajkum	Rajkum	Rajkum	Rajkum	Rajkum	Rajkum	Rajkum	Rajkum	Rajkum	Rajkum	32
55	III	112419114327	RAKESH S	Rakesh	Rakesh	Rakesh	Rakesh	Rakesh	Rakesh	Rakesh	Rakesh	Rakesh	Rakesh	Rakesh	Rakesh	32
56	III	112419114328	SARAVANAN A	Saravan	Saravan	Saravan	Saravan	Saravan	Saravan	Saravan	Saravan	Saravan	Saravan	Saravan	Saravan	32
57	III	112419114329	SATHEESH MB	Satheesh	Satheesh	Satheesh	Satheesh	Satheesh	Satheesh	Satheesh	Satheesh	Satheesh	Satheesh	Satheesh	Satheesh	32
58	III	112419114330	SEENU KUMAR K	SK	SK	SK	SK	SK	SK	SK	SK	SK	SK	SK	SK	32



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				6 HOURS		5 HOURS		5 HOURS		5 HOURS		6 HOURS		5 HOURS		
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
59	III	112419114331	SETHUPANDIA N K	Sethu	Sethu	Sethu	Sethu	Sethu	Sethu	Sethu	Sethu	Sethu	Sethu	Sethu	Sethu	32
60	III	112419114332	VIKRAM N	Vika	Vika	Vika	Vika	Vika	Vika	Vika	Vika	Vika	Vika	Vika	Vika	32
61	IV	112418114001	ABDUL HAMEED J	AHE	AHE	AHE	AHE	AHE	AHE	AHE	AHE	AHE	AHE	AHE	AHE	32
62	IV	112418114002	ABEL J	J.A	J.A	J.A	J.A	J.A	J.A	J.A	J.A	J.A	J.A	J.A	J.A	32
63	IV	112418114003	ANANDHAN V	Ananth	Ananth	Ananth	Ananth	Ananth	Ananth	Ananth	Ananth	Ananth	Ananth	Ananth	Ananth	32
64	IV	112418114004	ARAVINTH S	Aravit	Aravit	Aravit	Aravit	Aravit	Aravit	Aravit	Aravit	Aravit	Aravit	Aravit	Aravit	32
65	IV	112418114006	BALAJI M	Boj	Boj	Boj	Boj	Boj	Boj	Boj	Boj	Boj	Boj	Boj	Boj	32
66	IV	112418114007	BRAITON P	BB	BB	BB	BB	BB	BB	BB	BB	BB	BB	BB	BB	32
67	IV	112418114008	CHANDRU K	Chk	Chk	Chk	Chk	Chk	Chk	Chk	Chk	Chk	Chk	Chk	Chk	32
68	IV	112418114009	CHANDRU M	mch	mch	mch	mch	mch	mch	mch	mch	mch	mch	mch	mch	32
69	IV	112418114010	DEVAJEEVAN P	Dau	Dau	Dau	Dau	Dau	Dau	Dau	Dau	Dau	Dau	Dau	Dau	32
70	IV	112418114011	DEVAPRIYAN A	DevPri	DevPri	DevPri	DevPri	DevPri	DevPri	DevPri	DevPri	DevPri	DevPri	DevPri	DevPri	32
71	IV	112418114012	DHAVID EARNEST ALLWIN L	DE	DE	DE	DE	DE	DE	DE	DE	DE	DE	DE	DE	32
72	IV	112418114013	GOPALAKRISH NAN K	Gop	Gop	Gop	Gop	Gop	Gop	Gop	Gop	Gop	Gop	Gop	Gop	32
73	IV	112418114014	HEMANTH I	hem	hem	hem	hem	hem	hem	hem	hem	hem	hem	hem	hem	32
74	IV	112418114015	JAISANKAR P	Taisank	Taisank	Taisank	Taisank	Taisank	Taisank	Taisank	Taisank	Taisank	Taisank	Taisank	Taisank	32
75	IV	112418114016	JAYAPRAKASH S	J.P	J.P	J.P	J.P	J.P	J.P	J.P	J.P	J.P	J.P	J.P	J.P	32
76	IV	112418114017	KAMALA KANNAN S	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	32
77	IV	112418114018	KAMESH R	R.Kannul	R.Kannul	R.Kannul	R.Kannul	R.Kannul	R.Kannul	R.Kannul	R.Kannul	R.Kannul	R.Kannul	R.Kannul	R.Kannul	32
78	IV	112418114019	KARANT	Kan	Kan	Kan	Kan	Kan	Kan	Kan	Kan	Kan	Kan	Kan	Kan	32
79	IV	112418114020	KISHOR	V.Kish	V.Kish	V.Kish	V.Kish	V.Kish	V.Kish	V.Kish	V.Kish	V.Kish	V.Kish	V.Kish	V.Kish	32



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				6 HOURS		5 HOURS		5 HOURS		5 HOURS		6 HOURS		5 HOURS		
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
80	IV	112418114021	LOGESH V	Logesh	Logesh	Logesh	Logesh	Logesh	Logesh	Logesh	Logesh	Logesh	Logesh	Logesh	Logesh	32
81	IV	112418114023	NAVENKUMAR N	Naven	Naven	Naven	Naven	Naven	Naven	Naven	Naven	Naven	Naven	Naven	Naven	32
82	IV	112418114024	NIKESH D	Nikesh	Nikesh	Nikesh	Nikesh	Nikesh	Nikesh	Nikesh	Nikesh	Nikesh	Nikesh	Nikesh	Nikesh	32
83	IV	112418114025	PERARASAN A	A.P	A.P	A.P	A.P	A.P	A.P	A.P	A.P	A.P	A.P	A.P	A.P	32
84	IV	112418114026	RAKUL M	Rakul	Rakul	Rakul	Rakul	Rakul	Rakul	Rakul	Rakul	Rakul	Rakul	Rakul	Rakul	32
85	IV	112418114027	SANJAY A	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	32
86	IV	112418114028	SANJAY H	H.S	H.S	H.S	H.S	H.S	H.S	H.S	H.S	H.S	H.S	H.S	H.S	32
87	IV	112418114029	SANTHOSH P S	Santhosh	Santhosh	Santhosh	Santhosh	Santhosh	Santhosh	Santhosh	Santhosh	Santhosh	Santhosh	Santhosh	Santhosh	32
88	IV	112418114030	SARANKUMAR E	Saran	Saran	Saran	Saran	Saran	Saran	Saran	Saran	Saran	Saran	Saran	Saran	32
89	IV	112418114031	SATHISH P	Sathish	Sathish	Sathish	Sathish	Sathish	Sathish	Sathish	Sathish	Sathish	Sathish	Sathish	Sathish	32
90	IV	112418114032	SATHISH S	S.Sathish	S.Sathish	S.Sathish	S.Sathish	S.Sathish	S.Sathish	S.Sathish	S.Sathish	S.Sathish	S.Sathish	S.Sathish	S.Sathish	32
91	IV	112418114033	SELVAM D	D.S	D.S	D.S	D.S	D.S	D.S	D.S	D.S	D.S	D.S	D.S	D.S	32
92	IV	112418114034	SHIJIN M	Shijin	Shijin	Shijin	Shijin	Shijin	Shijin	Shijin	Shijin	Shijin	Shijin	Shijin	Shijin	32
93	IV	112418114035	SIVAKUMAR B	Sivakumar	Sivakumar	Sivakumar	Sivakumar	Sivakumar	Sivakumar	Sivakumar	Sivakumar	Sivakumar	Sivakumar	Sivakumar	Sivakumar	32
94	IV	112418114036	TAMIL ARASAN M	Tamil	Tamil	Tamil	Tamil	Tamil	Tamil	Tamil	Tamil	Tamil	Tamil	Tamil	Tamil	32
95	IV	112418114038	VIGNESH A	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh	32
96	IV	112418114040	VINOTH KUMAR M	Vinot	Vinot	Vinot	Vinot	Vinot	Vinot	Vinot	Vinot	Vinot	Vinot	Vinot	Vinot	32
97	IV	112418114041	VINOTH KUMAR S	Vinot	Vinot	Vinot	Vinot	Vinot	Vinot	Vinot	Vinot	Vinot	Vinot	Vinot	Vinot	32
98	IV	112418114301	AKASH.M	Akash	Akash	Akash	Akash	Akash	Akash	Akash	Akash	Akash	Akash	Akash	Akash	32
99	IV	112418114304	BHARATHI RAJ.N	BB	BB	BB	BB	BB	BB	BB	BB	BB	BB	BB	BB	32
100	IV	112418114305	BUVENESH KUMAR.N	B.Kumar	B.Kumar	B.Kumar	B.Kumar	B.Kumar	B.Kumar	B.Kumar	B.Kumar	B.Kumar	B.Kumar	B.Kumar	B.Kumar	32



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S.N O	YE AR	REGISTER NUMBER	NAME OF STUDENTS	04.04.22		05.04.22		06.04.22		07.04.22		08.04.22		09.04.22		TOTAL HOURS (32)
				6 HOURS		5 HOURS		5 HOURS		5 HOURS		6 HOURS		5 HOURS		
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
101	IV	112418114306	CHANDRU M	Chandru	Chandru	Chandru	Chandru	Chandru	Chandru	Chandru	Chandru	Chandru	Chandru	Chandru	Chandru	32
102	IV	112418114308	DINESHKUMAR V	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	32
103	IV	112418114311	KARTHIKEYAN R	Karthi	Karthi	Karthi	Karthi	Karthi	Karthi	Karthi	Karthi	Karthi	Karthi	Karthi	Karthi	32
104	IV	112418114313	LAKSHMANAN M	Laksh	Laksh	Laksh	Laksh	Laksh	Laksh	Laksh	Laksh	Laksh	Laksh	Laksh	Laksh	32
105	IV	112418114314	MAHESHWARANS	Maha	Maha	Maha	Maha	Maha	Maha	Maha	Maha	Maha	Maha	Maha	Maha	32
106	IV	112418114315	MOHAN.C	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan	32
107	IV	112418114316	NAGARAJAN.S	Nagar	Nagar	Nagar	Nagar	Nagar	Nagar	Nagar	Nagar	Nagar	Nagar	Nagar	Nagar	32
108	IV	112418114317	NANDHAN.S	Nandu	Nandu	Nandu	Nandu	Nandu	Nandu	Nandu	Nandu	Nandu	Nandu	Nandu	Nandu	32
109	IV	112418114318	NAVEEN.A	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	Naveen	32
110	IV	112418114321	PRATHAP.L	Prath	Prath	Prath	Prath	Prath	Prath	Prath	Prath	Prath	Prath	Prath	Prath	32
111	IV	112418114323	RAGUL.S	Ragu	Ragu	Ragu	Ragu	Ragu	Ragu	Ragu	Ragu	Ragu	Ragu	Ragu	Ragu	32
112	IV	112418114324	RAJESH.R	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	Rajesh	32
113	IV	112418114325	RAKESH.K	Rakesh	Rakesh	Rakesh	Rakesh	Rakesh	Rakesh	Rakesh	Rakesh	Rakesh	Rakesh	Rakesh	Rakesh	32
114	IV	112418114326	RAMAN.D	Raman	Raman	Raman	Raman	Raman	Raman	Raman	Raman	Raman	Raman	Raman	Raman	32
115	IV	112418114327	ROSHAN RAJ.R.M	Roshan	Roshan	Roshan	Roshan	Roshan	Roshan	Roshan	Roshan	Roshan	Roshan	Roshan	Roshan	32
116	IV	112418114328	SARATH.Y	Sarath	Sarath	Sarath	Sarath	Sarath	Sarath	Sarath	Sarath	Sarath	Sarath	Sarath	Sarath	32
117	IV	112418114332	SOUNDARRAJE	Sound	Sound	Sound	Sound	Sound	Sound	Sound	Sound	Sound	Sound	Sound	Sound	32
118	IV	112418114333	SUGUMAR.J	Sugu	Sugu	Sugu	Sugu	Sugu	Sugu	Sugu	Sugu	Sugu	Sugu	Sugu	Sugu	32
119	IV	112418114334	SURENDAR.B	Surend	Surend	Surend	Surend	Surend	Surend	Surend	Surend	Surend	Surend	Surend	Surend	32



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S.N O	YE AR	REGISTER NUMBER	NAME OF STUDENTS	04.04.22		05.04.22		06.04.22		07.04.22		08.04.22		09.04.22		TOTAL HOURS (32)
				6 HOURS		5 HOURS		5 HOURS		5 HOURS		6 HOURS		5 HOURS		
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	FN	AN	
120	IV	112418114336	VENKAT M.A	Venk	Venk	Venk	Venk	Venk	Venk	Venk	Venk	Venk	Venk	Venk	Venk	32
121	IV	112418114338	VINOTH.V	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	Vinoth	32
122	IV	112418114339	YADESH.B	Yadesh	Yadesh	Yadesh	Yadesh	Yadesh	Yadesh	Yadesh	Yadesh	Yadesh	Yadesh	Yadesh	Yadesh	32


COORDINATOR
(Mr.S.Sridharan)


HOD / MECHANICAL
(Mr.M.Vinoth)




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21MECHVAC02 - CRYOGENIC ENGINEERING

TEST QUESTIONS

1. Cryogenics deals with which type of product?
 - a) High temperature
 - b) Low temperature**
 - c) High pressurize
 - d) Low pressurize
2. Which operation mentioned below is associated with Claude cycle?
 - a) External refrigeration
 - b) Three- stage cascade cycle
 - c) High-speed expander**
 - d) Low speed expander
3. What is the use of ammonia in Linde cycle?
 - a) Precooling**
 - b) Liquefaction
 - c) Refrigeration
 - d) Compression of feed stream
4. What is the composition of air entering the cold exchanger in Linde-Frankl cycle?
 - a) O₂ and N₂
 - b) Only N₂
 - c) H₂O and CO₂**
 - d) Only H₂O
5. Which process does not use air expansion for refrigeration?
 - a) Claude operated process
 - b) Elliott process**
 - c) Turbo-reciprocating process
 - d) Liquefaction process
6. Which of The following is a critical temperature for Carbon dioxide?
 - a) 32-degree centigrade
 - b) 30.98-degree centigrade**
 - c) 40-degree centigrade
 - d) 30.91 degree Kelvin
7. Which of the following is Greater?
 - a) Boyle's temperature**
 - b) Boyle's temperature = critical temperature
 - c) Critical temperature
 - d) Boyle's temperature = 1/critical temperature
8. A gas that is liquefied by applying pressure below critical temperature is called _____ of the substance.
 - a) vapor**
 - b) liquid
 - c) solid
 - d) plasma



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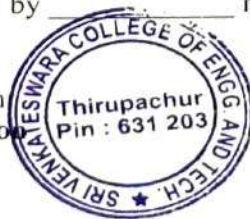


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9. If the value of a is greater, what does it mean?
- the gas liquefies easily
 - the gas cannot liquify easily
 - gas obeys ideal gas law
 - gas particles have random motion
10. In van der Waal's equation, b is known as _____
- volume constant
 - pressure constant
 - volume correction
 - pressure correction
11. What is the appearance of liquid nitrogen?
- Yellow
 - Colorless
 - Bluish-gray
 - Black
12. How can cryogenic temperatures lower than 30,000K be measured?
- Silicon diode
 - Calorimeter
 - Superconducting granules
 - Roton detector
13. Cold working is generally carried out _____
- Below melting point
 - Above recrystallization temperature
 - At room temperature
 - Cryogenic temperature
14. _____ involves hammering of heated bars inside closed impression dies.
- Press forging
 - Drop forging
 - Hammer forging
 - Upset forging
15. What is the major difference between Kellogg and Linde-Frankl process?
- Recuperative heat exchanger
 - Catalytic oxidation chamber
 - Scrubbing tower
 - Refrigeration
16. Cryogenics deal with temperatures around _____
- 50°C
 - 90°C
 - 180°C
 - 250°C
17. Liquid oxygen is produced by _____ method.
- Batch distillation
 - Steam distillation
 - Extractive distillation
 - Fractional distillation




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18. Which of the following is a hot working process?
- a) Stamping
 - b) Squeezing
 - c) Forging**
 - d) Bending
19. Which of the following is a characteristic of hot rolling?
- a) Refines grain structure
 - b) Economic
 - c) Slow speed**
 - d) Uniform size
20. What is the boiling point of nitrogen?
- a) 20.27
 - b) 27.09
 - c) 77.36**
 - d) 111.7


COORDINATOR
(Mr.S.Sridharan)




HOD / MECHANICAL
(Mr.M.Vinoth)


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21MECHVAC02 - CRYOGENIC ENGINEERING

FEEDBACK FORM

Student Reg. No. & Name: KAMESH · R / 112 H10114018
Sem & Year: 8th / 2021

Date: 09/04/2022

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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Student Signature





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21MECHVAC02 - CRYOGENIC ENGINEERING
TEST QUESTIONS

Student Reg. No. & Name: 112420114418 & R. Yokesk
Sem & Year: 04 & II

Date: 9/4/2022

1. Cryogenics deals with which type of product?
a) High temperature
b) Low temperature
c) High pressurize
d) Low pressurize
2. Which operation mentioned below is associated with Claude cycle?
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b) Boyle's temperature = critical temperature
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d) Boyle's temperature = 1/critical temperature

18
20



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8. A gas that is liquefied by applying pressure below critical temperature is called _____ of the substance.
- a) vapor
 - b) liquid
 - c) solid
 - d) plasma
9. If the value of a is greater, what does it mean?
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 - b) the gas cannot liquify easily
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 - c) Superconducting granules
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 - b) Above recrystallization temperature
 - c) At room temperature
 - d) Cryogenic temperature
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 - b) Drop forging
 - c) Hammer forging
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 - b) Catalytic oxidation chamber
 - c) Scrubbing tower
 - d) Refrigeration



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16. Cryogenics deal with temperatures around _____

- a) -50°C
- b) -90°C
- c) -180°C
- d) -250°C

17. Liquid oxygen is produced by _____ method.

- a) Batch distillation
- b) Steam distillation
- c) Extractive distillation
- d) Fractional distillation

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21MECHVAC02 - CRYOGENIC ENGINEERING

Course Code	21MECHVAC02
Name of the Course	CRYOGENIC ENGINEERING
Duration of the Course	32 HOURS
Academic Year	2021-22
Period of the Course	04.04.2022 TO 09.04.2022

STUDENT EVALUATION SHEET

S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
1	II	112420114417	VISWANATHAN A	32	80
2	II	112420114418	YOKES R	32	80
3	II	112420114419	YUVARAJ N	32	85
4	II	112420114420	YUVARAJ R	32	90
5	II	112420114421	YUVARAJ T	32	95
6	II	112420114422	EZEKIEL A	32	80
7	II	112420114423	JAGADEESHWARAN Y	32	85
8	II	112420114424	NITHISH M	32	80
9	III	112419114001	ABINASH.S	32	85
10	III	112419114002	ANGARAJA.K	32	80
11	III	112419114003	BHUVANESH M	32	80
12	III	112419114004	CHANDRU M	32	90
13	III	112419114005	CHARLESS M	32	95
14	III	112419114006	DEVA SUNDAR	32	95
15	III	112419114007	DHANUSH M	32	85
16	III	112419114009	DINESH KUMAR M	32	80
17	III	112419114010	GANAPATHY K	32	95
18	III	112419114011	GAYATHRI V	32	95



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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
19	III	112419114012	HARIHARAN R	32	80
20	III	112419114013	HARIHARAN S	32	95
21	III	112419114014	KARTHICKRAJ V	32	85
22	III	112419114015	KRISHNAMOORTHY D	32	80
23	III	112419114016	MANIKANDAN M	32	80
24	III	112419114017	MANISHANKAR B	32	90
25	III	112419114018	MOHAMMED IMRAN D	32	95
26	III	112419114019	MUTHAMIZH I	32	80
27	III	112419114021	NAVEEN G	32	85
28	III	112419114022	PRAKASH K	32	85
29	III	112419114024	SARAVANAN J	32	80
30	III	112419114025	VENKATESH I	32	85
31	III	112419114026	YUVARAJ M	32	90
32	III	112419114301	ADITHIYAN V	32	90
33	III	112419114303	ANISH S	32	95
34	III	112419114304	BEEMRAO D	32	95
35	III	112419114306	BHARATH P	32	80
36	III	112419114307	DILLI BABU DS	32	89
37	III	112419114308	DILLI BABU S	32	95
38	III	112419114309	DINESH M	32	90
39	III	112419114310	DINESH KUMAR T	32	95
40	III	112419114311	ESSAKICHANDRAN P	32	95
41	III	112419114312	GANESH R	32	90
42	III	112419114314	HARISH KUMAR V	32	80
43	III	112419114315	JAGADISH R	32	87



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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
44	III	112419114316	JENESH KUMAR M	32	85
45	III	112419114317	KANAGARAJ G	32	85
46	III	112419114318	MURALI K	32	95
47	III	112419114319	NAVEEN KUMAR R	32	90
48	III	112419114320	NAVEEN KUMAR B	32	85
49	III	112419114321	PARTIBAN S	32	90
50	III	112419114322	PRADEEP K	32	90
51	III	112419114323	PRAVEEN P	32	85
52	III	112419114324	RAJAMANI P	32	90
53	III	112419114325	RAJKUMAR J	32	90
54	III	112419114326	RAJAKUMAR S	32	90
55	III	112419114327	RAKESH S	32	85
56	III	112419114328	SARAVANAN A	32	80
57	III	112419114329	SATHEESH MB	32	95
58	III	112419114330	SEENU KUMAR K	32	95
59	III	112419114331	SETHUPANDIAN K	32	89
60	III	112419114332	VIKRAM N	32	90
61	IV	112418114001	ABDUL HAMEED J	32	95
62	IV	112418114002	ABEL J	32	95
63	IV	112418114003	ANANDHAN V	32	85
64	IV	112418114004	ARAVINTH S	32	90
65	IV	112418114006	BALAJI M	32	92
66	IV	112418114007	BRAITON P	32	95
67	IV	112418114008	CHANDRU K	32	95
68	IV	112418114009	CHANDRU M	32	80



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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
69	IV	112418114010	DEVAJEEVAN P	32	85
70	IV	112418114011	DEVAPRIYAN A	32	80
71	IV	112418114012	DHAVID EARNEST ALLWIN L	32	90
72	IV	112418114013	GOPALAKRISHNAN K	32	95
73	IV	112418114014	HEMANTHI	32	90
74	IV	112418114015	JAISANKAR P	32	85
75	IV	112418114016	JAYAPRAKASH S	32	90
76	IV	112418114017	KAMALA KANNAN S	32	95
77	IV	112418114018	KAMESH R	32	90
78	IV	112418114019	KARAN T	32	85
79	IV	112418114020	KISHORE V	32	85
80	IV	112418114021	LOGESH V	32	90
81	IV	112418114023	NAVEENKUMAR N	32	95
82	IV	112418114024	NIKESH D	32	80
83	IV	112418114025	PERARASAN A	32	90
84	IV	112418114026	RAKUL M	32	95
85	IV	112418114027	SANJAY A	32	95
86	IV	112418114028	SANJAY H	32	90
87	IV	112418114029	SANTHOSH P S	32	85
88	IV	112418114030	SARANKUMAR E	32	85
89	IV	112418114031	SATHISH P	32	95
90	IV	112418114032	SATHISH S	32	80
91	IV	112418114033	SELVAM D	32	80
92	IV	112418114034	SHIJIN M	32	95
93	IV	112418114035	SIVAKUMAR B	32	90



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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
94	IV	112418114036	TAMIL ARASAN M	32	85
95	IV	112418114038	VIGNESH A	32	90
96	IV	112418114040	VINOTH KUMAR M	32	90
97	IV	112418114041	VINOTH KUMAR S	32	95
98	IV	112418114301	AKASH.M	32	95
99	IV	112418114304	BHARATHI RAJ.N	32	90
100	IV	112418114305	BUVENESH KUMAR.N	32	95
101	IV	112418114306	CHANDRU.M	32	85
102	IV	112418114308	DINESHKUMAR.V	32	80
103	IV	112418114311	KARTHIKEYAN.R	32	95
104	IV	112418114313	LAKSHMANAN.M	32	90
105	IV	112418114314	MAHESHWARAN.S	32	80
106	IV	112418114315	MOHAN.C	32	80
107	IV	112418114316	NAGARAJAN.S	32	95
108	IV	112418114317	NANDHAN.S	32	95
109	IV	112418114318	NAVEEN.A	32	80
110	IV	112418114321	PRATHAP.L	32	90
111	IV	112418114323	RAGUL.S	32	90
112	IV	112418114324	RAJESH.R	32	95
113	IV	112418114325	RAKESH.K	32	90
114	IV	112418114326	RAMAN.D	32	85
115	IV	112418114327	ROSHAN RAJ.R.M	32	95
116	IV	112418114328	SARATH.Y	32	90
117	IV	112418114332	SOUNDARRAJ.E	32	90
118	IV	112418114333	SUGUMAR.J	32	95



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S.NO	YEAR	REGISTER NUMBER	NAME OF STUDENTS	ATTENDANCE	MARK
119	IV	112418114334	SURENDAR.B	32	85
120	IV	112418114336	VENKAT.M.A	32	85
121	IV	112418114338	VINOTH.V	32	95
122	IV	112418114339	YADESH.B	32	90


COORDINATOR
(Mr.S.Sridharan)


HOD / MECHANICAL
(Mr.M.Vinoth)




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CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms R. YOKESH S (112420114418)

Department of Mechanical Engineering has successfully completed Value
Added Course titled ' **CRYOGENIC ENGINEERING** ' held from 04.04.2022
to 09.04.2022




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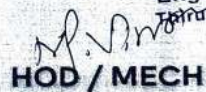
Department of Mechanical Engineering has successfully completed Value

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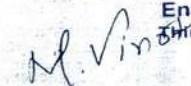
CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms P. BHARATH (112419114306)

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Added Course titled ' CRYOGENIC ENGINEERING ' held from 04.04.2022
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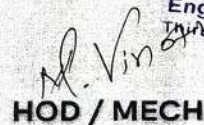
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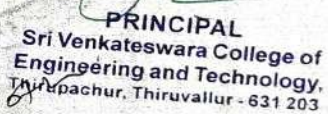
This is to certify that Mr/Ms M. BALAJI (112418114006)

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