

Duration of the course: 38 hours

8 November 2021

To

23 January 2022

Faculty information

Dr. Ch. Vijay Anil Dai

Lecturer in Physics

Instruction to students

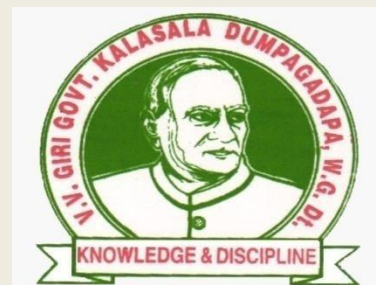
- 75% Course attendance is compulsory to receive the certificate
- Students who get 40% of marks in the examination are eligible to receive Certificate.

For further information contact

Dr. Ch. Vijay Anil Dai

Department Of Physics

Course Coordinator



V.V GIRI Government Kalasala, Dumpagadapa

West Godavari Dist, A.P -534235

AFFILIATED TO ADIKAVI NANNAYA
UNIVERSITY

NAAC GRADE B+

CERTIFICATE COURSE

ON

Basics of Refrigeration

Organized By

DEPARTMENT OF Physics

Basics of Refrigeration

Unit-I

Principles of Thermodynamics:

Thermodynamic system, Internal energy, Flow energy, Heat, Specific Heat, Pressure and temperature relationship, Refrigeration and Second law of Thermodynamics, Joule-Thomson effect.

Unit-II

Methods of Refrigeration:

Ice refrigeration, Evaporative refrigeration, refrigeration by evaporation of air, refrigeration by using liquid gases, dry ice refrigeration. Unit-III

Production of Low Temperature:

Introduction, multi-refrigeration system, production of dry ice, Liquefaction of Hydrogen, Liquefaction of Helium, Low temperature insulation.

Unit-IV

Refrigerants:

Classification of refrigerants, properties of an Ideal refrigerant, important refrigerants, Anti-freezing refrigerants, selection of refrigerant.



V.V.GIRI GOVT. KALASALA

DUMPAGADAPA, W.G.Dist., (via) AKIVIDU - 534 235

Accredited by NAAC @ B+

College Code : **AKNU323**



Dr. K. SUJATHA, M.Sc., Ph.D.,
PRINCIPAL
Cell : 9440230091

E-mail : gdcdumpagadapa.jkc@gmail.com
Website : www.dumpagadapa.ac.in

Exam-Absentee statement

Name of the department: **Physics**

Duration of the course: 38 periods

Title of the certificate course: **"Basics of Refrigeration"**

Course code: **PHY-CC-BR**

Date of Exam: **27/01/2022**

Total Marks: 25M

S.no	Roll number	Name of the student	Class	Signature
1	203237102007	ALAMANDA DURGA PRASAD	I MPCs	A. D. Prasad
2	203237102009	AVULA MARY	I MPCs	A. Mary
3	203237102011	BONDADA SANTHI KEZIA	I MPCs	B. Santhi kezia
4	203237102014	CHINIMILLI RAJU	I MPCs	C. Raju
5	203237102015	DUMPALA BHUVANA	I MPCs	D. Bhuvana
6	203237102017	G.N. VENKATA SATYANARAYANA	I MPCs	G.N. V. Satyanarayana
7	203237102018	GANTELA SANDEEP	I MPCs	G. Sandeep
8	203237102020	JAVVADI TEJASWI	I MPCs	J. Sandeep
9	203237102023	KATTA LOHITHA SRAVANI	I MPCs	K. L. Sravani
10	203237102025	KAYALA MANJULA	I MPCs	K. Manjula
11	203237102026	KOPPANATI SRI HARI	I MPCs	K. Sri Hari
12	203237102027	K.SRI VENKATA KRISHNA VAMSI	I MPCs	K. V. K. Vamsi
13	203237102029	MANCHEM KEERTHI	I MPCs	M. Keerthi
14	203237102033	MYLA NAGA SAI VARMA	I MPCs	M. N. S. Varma
15	203237102036	NIMMALA NAGALAKSHMI	I MPCs	N. Nagalakshmi
16	203237102038	NIMMALA YESU RANI	I MPCs	N. Y. Rani
17	203237102041	SARIKA LAVANYA	I MPCs	S. Lavanya
18	203237102042	SHAKAMURI RAJU	I MPCs	S. Raju
19	203237102044	THOTA SOWMYA	I MPCs	T. Sowmya
20	203237102045	THOTA YESASWINI	I MPCs	T. Yesawini
21	203237102046	TIRUMANI RAVINDRA	I MPCs	T. Ravindra

C. Anil Dri
Course Coordinator

Dr. K. Sujatha
Principal
V.V. Giri Government Kalasala
DUMPAGADAPA



V.V.GIRI GOVT. KALASALA

DUMPAGADAPA, W.G.Dist., (via) AKIVIDU - 534 235

Accredited by NAAC @ B+

College Code : **AKNU323**



Dr. K. SUJATHA, M.Sc., Ph.D.,
PRINCIPAL
Cell : 9440230091

E-mail : gdcdumpagadapa.jkc@gmail.com
Website : www.dumpagadapa.ac.in

Marks Statement

Name of the department: **Physics**

Duration of the course: 38 periods

Title of the certificate course: **"Basics of Refrigeration"**

Course code: PHY-CC-BR

Date of Exam: ~~10/01/2024~~

Total Marks: 25M

S.no	Roll number	Name of the student	Marks	Remarks
1	203237102007	ALAMANDA DURGA PRASAD	17	
2	203237102009	AVULA MARY	23	
3	203237102011	BONDADA SANTHI KEZIA	20	
4	203237102014	CHINIMILLI RAJU	20	
5	203237102015	DUMPALA BHUVANA	19	
6	203237102017	G.N. VENKATA SATYANARAYANA	21	
7	203237102018	GANTELA SANDEEP	18	
8	203237102020	JAVVADI TEJASWI	21	
9	203237102023	KATTA LOHITHA SRAVANI	19	
10	203237102025	KAYALA MANJULA	20	
11	203237102026	KOPPANATI SRI HARI	17	
12	203237102027	K.SRI VENKATA KRISHNA VAMSI	19	
13	203237102029	MANCHEM KEERTHI	18	
14	203237102033	MYLA NAGA SAI VARMA	18	
15	203237102036	NIMMALA NAGALAKSHMI	23	
16	203237102038	NIMMALA YESU RANI	20	
17	203237102041	SARIKA LAVANYA	19	
18	203237102042	SHAKAMURI RAJU	20	
19	203237102044	THOTA SOWMYA	21	
20-	203237102045	THOTA YESASWINI	20	
21	203237102046	TIRUMANI RAVINDRA	18	

Course Coordinator
Course Coordinator

Principal
Principal
V.V. Giri Government Kalasala
DUMPAGADAPA

V.V. GIRI GOVERNMENT KALASALA, DUMPAGADAPA
DEPARTMENT OF ENGLISH
CERTIFICATE COURSE - ATTENDANCE REGISTER - NOVEMBER 2021

S.NO.	Regd.No	NAME OF THE STUDENT	YEAR/ PROGRA	8	9	10	11	12	14	15	16	21	22	23	24	25	26	28	29
1	203237102007	ALAMANDA DURGA PRASAD	I MPCs	P	A	P	P	P	A	P	P	A	P	P	A	P	P	P	P
2	203237102009	AVULA MARY	I MPCs	P	P	A	P	P	A	P	P	P	A	P	P	P	A	P	P
3	203237102011	BONDADA SANTHI KEZIA	I MPCs	P	P	A	P	P	P	P	A	P	P	P	A	P	P	P	A
4	203237102014	CHINIMILLI RAJU	I MPCs	P	A	P	A	P	P	P	P	A	P	P	P	A	P	P	P
5	203237102015	DUMPALA BHUVANA	I MPCs	A	P	P	P	A	P	P	P	P	A	P	P	P	P	A	P
6	203237102017	GANDIKOTA NAGA VENKATA SATYANARAYANA	I MPCs	P	A	P	P	A	P	P	P	A	P	P	A	P	P	P	A
7	203237102018	GANTELA SANDEEP	I MPCs	P	A	P	P	P	A	P	P	P	A	P	P	P	A	P	P
8	203237102020	JAVVADI TEJASWI	I MPCs	P	P	P	P	A	P	P	P	A	P	P	P	A	P	P	P
9	203237102023	KATTA LOHITHA SRAVANI	I MPCs	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10	203237102025	KAYALA MANJULA	I MPCs	P	A	P	P	A	P	P	P	P	A	P	P	A	P	P	P
11	203237102026	KOPPANATI SRI HARI	I MPCs	A	P	P	P	P	A	P	P	P	P	P	A	P	P	P	A
12	203237102027	KOPPISETTI SRI VENKATA KRISHNA VAMSI	I MPCs	P	P	A	P	P	P	P	A	P	P	P	P	A	P	P	A
13	203237102029	MANCHEM KEERTHI	I MPCs	P	A	P	A	P	P	P	A	P	P	P	P	P	A	P	P
14	203237102033	MYLA NAGA SAI VARMA	I MPCs	P	P	A	P	P	P	A	P	P	P	A	P	P	A	P	P
15	203237102036	NIMMALA NAGALAKSHMI	I MPCs	P	A	P	P	P	A	P	P	P	A	P	P	P	P	A	P
16	203237102038	NIMMALA YESU RANI	I MPCs	A	P	P	P	A	P	P	P	P	A	P	P	P	P	A	P
17	203237102041	SARIKA LAVANYA	I MPCs	P	A	P	P	P	P	A	P	P	P	P	P	A	P	P	A
18	203237102042	SHAKAMURI RAJU	I MPCs	P	P	P	A	P	P	P	A	P	P	P	A	P	P	P	P
19	203237102044	THOTA SOWMYA	I MPCs	P	P	A	P	P	A	P	P	P	P	A	P	P	A	P	P
20	203237102045	THOTA YESASWINI	I MPCs	P	P	A	P	P	A	P	P	P	A	P	P	P	A	P	P
21	203237102046	TIRUMANI RAVINDRA	I MPCs	P	A	P	P	P	P	P	A	P	P	P	P	A	P	P	P

Girija Arul An

V.V. GIRI GOVERNMENT KALASALA, DUMPAGADAPA
DEPARTMENT OF ENGLISH
CERTIFICATE COURSE - ATTENDANCE REGISTER - DECEMBER 2021

S.NO.	Regd.No	NAME OF THE STUDENT	YEAR/ PROGRAMME	1	5	6	7	12	13	14	15	20	21	22	27	28	29
1	203237102007	ALAMANDA DURGA PRASAD	I MPCs	P	P	P	P	A	P	P	P	A	P	P	A	P	P
2	203237102009	AVULA MARY	I MPCs	P	P	A	P	P	P	A	P	P	P	P	P	A	P
3	203237102011	BONDADA SANTHI KEZIA	I MPCs	P	P	P	A	P	P	P	A	P	P	P	A	P	P
4	203237102014	CHINIMILLI RAJU	I MPCs	P	A	P	P	P	A	P	P	P	P	P	P	A	P
5	203237102015	DUMPALA BHUVANA	I MPCs	P	P	P	A	P	P	P	P	A	P	P	P	P	A
6	203237102017	GANDIKOTA NAGA VENKATA SATYANARAYANA	I MPCs	P	P	A	P	P	P	A	P	P	P	A	P	P	P
7	203237102018	GANTELA SANDEEP	I MPCs	P	P	A	P	A	P	P	P	A	P	P	P	A	P
8	203237102020	JAVVADI TEJASWI	I MPCs	P	P	P	A	P	P	P	A	P	P	A	P	P	A
9	203237102023	KATTA LOHITHA SRAVANI	I MPCs	P	P	P	A	P	P	A	P	P	P	P	P	A	P
10	203237102025	KAYALA MANJULA	I MPCs	P	P	A	P	P	P	P	A	P	P	P	P	A	P
11	203237102026	KOPPANATI SRI HARI	I MPCs	P	P	P	P	A	P	P	P	P	A	P	P	P	A
12	203237102027	KOPPISETTI SRI VENKATA KRISHNA VAMSI	I MPCs	P	P	P	A	P	P	P	P	A	P	P	P	A	P
13	203237102029	MANCHEM KEERTHI	I MPCs	A	P	A	P	P	P	P	A	P	P	P	P	A	P
14	203237102033	MYLA NAGA SAI VARMA	I MPCs	A	P	P	A	P	P	P	P	P	P	P	P	P	P
15	203237102036	NIMMALA NAGALAKSHMI	I MPCs	P	P	P	P	P	P	P	P	P	P	P	P	P	P
16	203237102038	NIMMALA YESU RANI	I MPCs	P	P	P	P	A	P	P	P	P	A	P	P	P	P
17	203237102041	SARIKA LAVANYA	I MPCs	P	P	P	P	P	A	P	P	P	P	P	A	P	P
18	203237102042	SHAKAMURI RAJU	I MPCs	P	P	P	P	P	P	P	P	P	P	P	P	P	P
19	203237102044	THOTA SOWMYA	I MPCs	P	A	P	P	P	P	P	A	P	P	P	P	P	A
20	203237102045	THOTA YESASWINI	I MPCs	P	P	P	P	P	P	P	P	P	P	P	P	P	P
21	203237102046	TIRUMANI RAVINDRA	I MPCs	P	P	P	A	P	P	P	P	A	P	P	P	P	A

C. J. Anil D.

V.V. GIRI GOVERNMENT KALASALA, DUMPAGADAPA

DEPARTMENT OF ENGLISH

CERTIFICATE COURSE - ATTENDANCE REGISTER - JANUARY 2022

S.NO.	Regd.No	NAME OF THE STUDENT	YEAR/ PROGRAMM E	2	3	4	5	18	19	20	21								
1	203237102007	ALAMANDA DURGA PRASAD	I MPCs	P	A	P	A	P	P	P	A								
2	203237102009	AVULA MARY	I MPCs	P	P	A	P	P	P	A	P								
3	203237102011	BONDADA SANTHI KEZIA	I MPCs	P	P	P	P	P	P	P	P								
4	203237102014	CHINIMILLI RAJU	I MPCs	P	A	P	P	P	P	P	P								
5	203237102015	DUMPALA BHUVANA	I MPCs	P	P	A	P	P	P	P	P								
6	203237102017	GANDIKOTA NAGA VENKATA SATYANARAYANA	I MPCs	P	P	P	A	P	P	A	P								
7	203237102018	GANTELA SANDEEP	I MPCs	P	A	P	P	P	P	P	P								
8	203237102020	JAVVADI TEJASWI	I MPCs	P	P	P	P	P	A	P	P								
9	203237102023	KATTA LOHITHA SRAVANI	I MPCs	P	P	P	P	A	P	P	P								
10	203237102025	KAYALA MANJULA	I MPCs	P	P	A	P	P	P	P	P								
11	203237102026	KOPPANATI SRI HARI	I MPCs	P	P	P	P	P	A	P	P								
12	203237102027	KOPPISETTI SRI VENKATA KRISHNA VAMSI	I MPCs	P	P	P	A	P	P	P	P								
13	203237102029	MANCHEM KEERTHI	I MPCs	P	P	P	P	P	P	A	P								
14	203237102033	MYLA NAGA SAI VARMA	I MPCs	P	P	A	P	P	A	P	P								
15	203237102036	NIMMALA NAGALAKSHMI	I MPCs	P	P	P	P	P	P	P	P								
16	203237102038	NIMMALA YESU RANI	I MPCs	P	A	P	P	P	P	P	P								
17	203237102041	SARIKA LAVANYA	I MPCs	P	P	P	P	P	P	P	P								
18	203237102042	SHAKAMURI RAJU	I MPCs	A	P	P	P	A	P	P	P								
19	203237102044	THOTA SOWMYA	I MPCs	P	P	P	P	A	A	P	P								
20	203237102045	THOTA YESASWINI	I MPCs	P	A	P	P	A	P	P	P								
21	203237102046	TIRUMANI RAVINDRA	I MPCs	P	P	P	P	P	A	P	P								

C. J. S. D. S.



V.V.GIRI.GOV.T.KALASALA



DUMPAGADAPA W.G.DT VIA AKIVIDU A.P, 534 235

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT MR/MS. BONDADA SANTHI KEZIA

CLASS I.M.P.Cs REGISTERED NO: 203237102011 HAS SUCCESSFULLY COMPLETED A

CERTIFICATE COURSE OF 38 HOURS ON "BASICS OF REFRIGERATION"

CONDUCTED BY DEPARTMENT OF **PHYSICS** FROM 08-11-2021 TO 25-01-2022



C. S. Anil D. S.

C. S. Anil D. S.

[Signature]



V.V.GIRI.GOV.T.KALASALA



DUMPAGADAPA W.G.DT VIA AKIVIDU A.P, 534 235

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT MR/MS. CHINIMILLI RAJU

CLASS I.M.P.Cs REGISTERED NO: 203237102014 HAS SUCCESSFULLY COMPLETED A

CERTIFICATE COURSE OF 38 HOURS ON "BASICS OF REFRIGERATION"

CONDUCTED BY DEPARTMENT OF **PHYSICS** FROM 08-11-2021 TO 25-01-2022



Chinimilli Raju

Chinimilli Raju

Chinimilli Raju



V.V.GIRI.GOV.T.KALASALA



DUMPAGADAPA W.G.DT VIA AKIVIDU A.P, 534 235

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT MR/MS. G.N.VENKATA SATYANARAYANA

CLASS I.M.P.Cs REGISTERED NO: 203237102017 HAS SUCCESSFULLY COMPLETED A

CERTIFICATE COURSE OF 38 HOURS ON "BASICS OF REFRIGERATION"

CONDUCTED BY DEPARTMENT OF **PHYSICS** FROM 08-11-2021 TO 25-01-2022



C. S. S. S. S.

C. S. S. S. S.

[Signature]



V.V.GIRI.GOV.T.KALASALA



DUMPAGADAPA W.G.DT VIA AKIVIDU A.P, 534 235

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT MR/MS. GANTELA SANDEEP

CLASS I.M.P.Cs REGISTERED NO: 203237102018 HAS SUCCESSFULLY COMPLETED A

CERTIFICATE COURSE OF 38 HOURS ON "BASICS OF REFRIGERATION"

CONDUCTED BY DEPARTMENT OF **PHYSICS** FROM 08-11-2021 TO 25-01-2022



C. S. Anil D. S.

C. S. Anil D. S.

[Signature]



V.V.GIRI.GOV.T.KALASALA



DUMPAGADAPA W.G.DT VIA AKIVIDU A.P, 534 235

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT MR/MS. JAVVADI TEJASWI

CLASS I.M.P.Cs REGISTERED NO: 203237102020 HAS SUCCESSFULLY COMPLETED A

CERTIFICATE COURSE OF 38 HOURS ON "BASICS OF REFRIGERATION"

CONDUCTED BY DEPARTMENT OF **PHYSICS** FROM 08-11-2021 TO 25-01-2022



C. S. S. S. S. S.

C. S. S. S. S. S.

[Handwritten Signature]



V.V.GIRI.GOV.T.KALASALA



DUMPAGADAPA W.G.DT VIA AKIVIDU A.P, 534 235

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT MR/MS. KATTA LOHITHA SRAVANI

CLASS I.M.P.Cs REGISTERED NO: 203237102023 HAS SUCCESSFULLY COMPLETED A

CERTIFICATE COURSE OF 38 HOURS ON "BASICS OF REFRIGERATION"

CONDUCTED BY DEPARTMENT OF **PHYSICS** FROM 08-11-2021 TO 25-01-2022

C. Srinivas Reddy

C. Srinivas Reddy

[Signature]





V.V.GIRI.GOV.T.KALASALA



DUMPAGADAPA W.G.DT VIA AKIVIDU A.P, 534 235

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT MR/MS. KAYALA MANJULA

CLASS I.M.P.Cs REGISTERED NO: 203237102025 HAS SUCCESSFULLY COMPLETED A

CERTIFICATE COURSE OF 38 HOURS ON "BASICS OF REFRIGERATION"

CONDUCTED BY DEPARTMENT OF **PHYSICS** FROM 08-11-2021 TO 25-01-2022



C. S. S. S. S. S.

C. S. S. S. S. S.

[Signature]



V.V.GIRI.GOV.T.KALASALA



DUMPAGADAPA W.G.DT VIA AKIVIDU A.P, 534 235

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT MR/MS. K. SRI VENKATA KRISHNA VAMSI

CLASS I.M.P.Cs REGISTERED NO: 203237102027 HAS SUCCESSFULLY COMPLETED A

CERTIFICATE COURSE OF 38 HOURS ON "BASICS OF REFRIGERATION"

CONDUCTED BY DEPARTMENT OF **PHYSICS** FROM 08-11-2021 TO 25-01-2022



C. S. S. S. S.

C. S. S. S. S.

[Signature]



V.V.GIRI.GOV.T.KALASALA



DUMPAGADAPA W.G.DT VIA AKIVIDU A.P, 534 235

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT MR/MS. KOPPANATI SRI HARI

CLASS I.M.P.Cs REGISTERED NO: 203237102026 HAS SUCCESSFULLY COMPLETED A

CERTIFICATE COURSE OF 38 HOURS ON "BASICS OF REFRIGERATION"

CONDUCTED BY DEPARTMENT OF **PHYSICS** FROM 08-11-2021 TO 25-01-2022



C. S. Anil D. S.

C. S. Anil D. S.

[Signature]



V.V.GIRI.GOV.T.KALASALA



DUMPAGADAPA W.G.DT VIA AKIVIDU A.P, 534 235

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT MR/MS. MANCHEM KEERTHI

CLASS I.M.P.Cs REGISTERED NO: 203237102029 HAS SUCCESSFULLY COMPLETED A

CERTIFICATE COURSE OF 38 HOURS ON "BASICS OF REFRIGERATION"

CONDUCTED BY DEPARTMENT OF **PHYSICS** FROM 08-11-2021 TO 25-01-2022



Crign Anil Dni

Crign Anil Dni

Crign Anil Dni



V.V.GIRI.GOV.T.KALASALA



DUMPAGADAPA W.G.DT VIA AKIVIDU A.P, 534 235

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT MR/MS. MYLA NAGA SAI VARMA

CLASS I.M.P.Cs REGISTERED NO: 203237102033 HAS SUCCESSFULLY COMPLETED A

CERTIFICATE COURSE OF 38 HOURS ON "BASICS OF REFRIGERATION"

CONDUCTED BY DEPARTMENT OF **PHYSICS** FROM 08-11-2021 TO 25-01-2022



C. S. S. S. S.

C. S. S. S. S.

[Signature]



V.V.GIRI.GOV.T.KALASALA



DUMPAGADAPA W.G.DT VIA AKIVIDU A.P, 534 235

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT MR/MS. NIMMALA YESU RANI

CLASS I.M.P.Cs REGISTERED NO: 203237102038 HAS SUCCESSFULLY COMPLETED A

CERTIFICATE COURSE OF 38 HOURS ON "BASICS OF REFRIGERATION"

CONDUCTED BY DEPARTMENT OF **PHYSICS** FROM 08-11-2021 TO 25-01-2022



C. S. S. S. S.

C. S. S. S. S.

[Signature]



V.V.GIRI.GOV.T.KALASALA



DUMPAGADAPA W.G.DT VIA AKIVIDU A.P, 534 235

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT MR/MS. SARIKA LAVANYA

CLASS I.M.P.Cs REGISTERED NO: 203237102041 HAS SUCCESSFULLY COMPLETED A

CERTIFICATE COURSE OF 38 HOURS ON "BASICS OF REFRIGERATION"

CONDUCTED BY DEPARTMENT OF **PHYSICS** FROM 08-11-2021 TO 25-01-2022



C. S. S. S. S. S.

C. S. S. S. S. S.

[Handwritten Signature]



V.V.GIRI.GOV.T.KALASALA



DUMPAGADAPA W.G.DT VIA AKIVIDU A.P, 534 235

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT MR/MS. SHAKAMURI RAJU

CLASS I.M.P.Cs REGISTERED NO: 203237102042 HAS SUCCESSFULLY COMPLETED A

CERTIFICATE COURSE OF 38 HOURS ON "BASICS OF REFRIGERATION"

CONDUCTED BY DEPARTMENT OF **PHYSICS** FROM 08-11-2021 TO 25-01-2022



C. S. S. S. S. S.

C. S. S. S. S. S.

[Signature]



V.V.GIRI.GOV.T.KALASALA



DUMPAGADAPA W.G.DT VIA AKIVIDU A.P, 534 235

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT MR/MS. TIRUMANI RAVINDRA

CLASS I.M.P.Cs REGISTERED NO: 203237102046 HAS SUCCESSFULLY COMPLETED A

CERTIFICATE COURSE OF 38 HOURS ON "BASICS OF REFRIGERATION"

CONDUCTED BY DEPARTMENT OF **PHYSICS** FROM 08-11-2021 TO 25-01-2022



C. S. S. S. S. S.

C. S. S. S. S. S.

[Handwritten Signature]



V.V.GIRI.GOV.T.KALASALA



DUMPAGADAPA W.G.DT VIA AKIVIDU A.P, 534 235

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT MR/MS. THOTA SOWMYA

CLASS I.M.P.Cs REGISTERED NO: 203237102044 HAS SUCCESSFULLY COMPLETED A

CERTIFICATE COURSE OF 38 HOURS ON "BASICS OF REFRIGERATION"

CONDUCTED BY DEPARTMENT OF **PHYSICS** FROM 08-11-2021 TO 25-01-2022

C. S. S. S. S.

C. S. S. S. S.

[Signature]





V.V.GIRI.GOV.T.KALASALA



DUMPAGADAPA W.G.DT VIA AKIVIDU A.P, 534 235

CERTIFICATE OF COMPLETION

THIS IS TO CERTIFY THAT MR/MS. THOTA YESASWINI

CLASS I.M.P.Cs REGISTERED NO: 203237102045 HAS SUCCESSFULLY COMPLETED A

CERTIFICATE COURSE OF 38 HOURS ON "BASICS OF REFRIGERATION"

CONDUCTED BY DEPARTMENT OF **PHYSICS** FROM 08-11-2021 TO 25-01-2022



C. S. S. S. S. S.

C. S. S. S. S. S.

[Handwritten Signature]