

CERTIFICATE COURSE

2018-2019



Department of Physics Sri Y.N. College (A) Narsapur



SRI Y.N.COLLEGE (AUTONOMOUS)-NARSAPUR (Affiliated to Adikavi Nannaya University) Thrice Accredited by NAAC at 'A' Grade Recognized by UGC as 'College with Potential for Excellence' **Certificate Course of Refrigeration and Air Conditioning** For 2018-2019 Batch (w.e.f. 2014-2015) SYLLABUS 2018-2019 Unit – 1:- Fundamentals of Thermodynamics



Thermodynamic Systems – Classification of Systems, Definition of State, Path Process Cycle, properties, work, heat, thermal energy, specific heat, enthalpy, flow work – Point and path functions.

Unit – 2 :- Laws of thermodynamics:-

Zeroth law, 1st law, 2nd law of thermodynamics. Laws of perfect gases – Boyle's law, Charle's law, Avagadro's law, Joule's law, Cp ,Cv relations, Isothermal, Isobaric, Isochoric, Adiabatic Process, Polytrophic – pre expansion throtling process.

Unit – 3 :- Fundamentals of Refrigeration:-

Introduction - Definition of Refrigeration – Methods of refrigeration – Applications Of refrigeration, Unit of refrigeration – Coefficient of performance (C.O.P) power Required per ton of refrigeration. Air refrigeration systems – Reversed Carnot Cycle, Bell Coleman Cycle – Problems – Open system versus closed system of air refrigeration.

Unit – 4:- Air Conditioning Systems:-

Room Air Conditioners – Installation – Split Units Fans – Classes of Fans, Types of Fans, Centrifugal Fans, Axial-Flow fans, Fan performance Air Distribution System – Air Filtration, Air Filters.



HEAD OF THE DEPARTMENT



SRI Y.N.COLLEGE (AUTONOMOUS)-NARSAPUR (Affiliated to Adikavi Nannaya University) Thrice Accredited by NAAC at 'A' Grade **Recognized by UGC as 'College with Potential for Excellence'** Certificate Course of Refrigeration and Air Conditioning For 2018-2019 Batch (w.e.f. 2014-2015)

MODEL QUESTION PAPER 2018-2019

Time 2 hrs

Max Marks: 50

Section – A

Answer any **two** of the following

- 1. Explain the terms "System", "Surroundings", "heat", "work" and Thermal Energy.
- 2. Describe the working of Carnot's Engine and derive an expression for its efficiency.
- 3. Draw P-V and T-O diagrams of a reversed Carnot Cycle applied to a Refrigerating machine and obtain an expression for its C.O.P.
- 4. Mention the types of Fans.

Section – B

Answer any **Five** of the following

- 5. Explain "Plow Work-Point" and "path functions".
- 6. Define Enthalpy and Specific heat.
- 7. Derive the relation between Cp and Cv.
- 8. State and explain second law of thermodynamics.
- 9. Distinguish between a heat pump and a refrigerator.
- 10. What are the applications of refrigeration?
- 11. Explain the important role of Air filters in air conditioning.
- 12. Explain Split Unit.

<u>Section – C</u>

Answer **all** the questions.

- 13. What is path process cycle?
- 14. Define Isobaric and Isothermal processes.
- 15. What is the unit of refrigeration?
- 16. Define First law of thermodynamics.
- 17. Define Air Filtration.



HEAD OF THE DEPARTMENT

5 X 2 = 10

2 X 10 = 20 M

5 X 4 = 20 M

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Admn	Roll		s	econd Lang.	NC. of studie	
No.	No.	Name of the student	6		Registered	comple
A4708	1	NAGADEVI KELLA	F	S	· V	-V
A4710	2	DHANA LAKSHMI RAMANADHAM	F	S	V	V
A4712	3	SUSHMA BALLA	F	S	V	V
A4864	4	NAGA SAI LAKSHMI DOMMETI	F	S	V	V
A4568	6	VEERA KU 'A NAGA BALA MAHA	M	S	V	V
		LINGAM SAMATHAM	#355al			
A4867	7	JAHNAVI KOWSALYA MOULIKA	F	T	X	X
	5.45	CHELAMKURI				
A4872	8	BHANU TEJASWI BOKKA	F	T	V	V
A4713	9	SANGEETHA THOTA	F	T		~
A4798	10	LALITHA DURGA BHAVANI KOWRU	JF	T		V
A4816	11	VIJAYA JYOTHI YARRAMSETT'I	F	T	V	V
A4711	12	SONY SHARA	F	T		/
A4797	13	UMADEVI TIRUMANI	F	Т	V	V
A4772	14	SATYA SIRISHA MARGANA	F	T	V	V
A4814	15	VENKANN BABU NADAKUDITI	м	T	V	V
A4812	16	SRINIVAS PEDASINGU	м	T	V	V
A4782	18	DURGA RAO CHINTAPALLI	М	T	V	V
A4765	19	SAI KISHORE EERI	М	T	\checkmark	V
A4466	21	JAYARAM VATTIKUTI	M	T	V	V
A4462	22	SATYANARAYANA MURTHY TIRUM	AM	T	V	V
A4815	23	RAJESH .:PRINKI	M	T	V	V
A4578	24	POTHURAJU MAJETI	M	T	V	··V
A4551	25	NANI YARRAMSETTI	м	T		V

NO. of students registered : 250

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Admn No.	Roll No.	Name of the student		ang.	Registend	Con
A4747	1	GOWTHAMI CHELLABOINA	F	S	· Viel	l
A4343	2	JYOTHSNA KOMMOJU	F	H		L
A4488	3	SAI DUR BHAVANI KUKKALA	F	S		1
A4724	4	GANGA BHAVANI KOPANATHI	F	S		
A4725	6	LAKSHMI PRASANNA CHINTAPALI	.IF	S	\checkmark	
A4746	7	KAVITHA SRI ARDHANI	F	S		in sur
A4820	8	MADHAV VENKAT SAI GADI	М	S	X	X
A4866	9	LEELA KRISHNA DONGA	м	S		
A4741	10	SIVA DODDA	M	S	X)
A4861	12	SAI TEJA SUNDARA	M	s		
A4736	13	CHAKRAVARTHI RAMADI	м	S		100
A4743	14	ENOSH KUM R CHINTA	M	S		
A4726	15	JAGADEESH BABU BANDARLANKA	м	S	X	
A4829	16	RAMA KRISHNA GELLI	м	S		~,
A4791	17	JAYA RAJU GUNDUBOGULA	м	S		
A4595	18	RAJ KUMAR GANTI	М	S	X	>
A4870	19	SANJAY KANDULA	М	S	X)
A4594	20	PRASANNA NALLI	М	S	X	
A4344	21	BHARANIKUMAR TANGELLA	м	S	X	-
A4490	22	BHARAT , AI GUBBALA	М	S		
A4566	23	DURGESH GUTTULA	М	S		
A4590	24		F	T		
A4360	25	SUSHMA SRI VANKA	F	T	V	
A4548	26	TTABAT	ANEL	KHT	N. COLLEGE (AUT)	

		NOMINAL ROLLS 2018 - 2019 II B.Sc MPE EM		rager rager	Cate Gu ratian Mandi	and
Admn No.	Roll No.			Second Lang.	Shidt to	Carr
		JOSYULA				
A4342	27	JEJESWARI DONGA	F	Т	· <	/
A4516	28	MANIKANTA RAVULA	М	T	1	/
A4341	29	HEMANTHKUMAR DHARMAVARAPU	M	T		/
A4722	30	JAGADISH KUKKALA	М	T	\checkmark	~
A4449	31	THARUN, VATALA	М	T	\langle	V
A4491	33	RAVI TEJA TALAM	М	T	\checkmark	
A4565	34	JAGADISH VARA PRASAD KADALI	M	T		V
A4564	35	NAGENDRA PRASAD KADALI	М	T		V
A4819	36	MAHESH MUTYALA	М	T	\checkmark	V
A4723	37	LAXMI NATASIMHA CHENNAPRAGA	MA	T	V	\checkmark
A4838	38	RAJA SEKHAR SANGANI	М	T		

NO. 4 Students Registered: 35 NO. 9 Students Completed: 28



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NOMINAL ROLLS 2018 - 2019

Admn No.	Rol No			Second Lang.	No fight	completio
A4459	1	ROHINI TIRUMANI	F	S		
A4481	2	SRAVANI MANDAPATI	F	S	1	
A4377	4	MEGANA MALLULA	F	S	~	a free
A4468	5	AMRUTHAVALLI PEDASINGU	F	S	1	1
A4567	6	KEERTHANA PALAPARTHI	F	s	· /	
A4503	7	ANIMA JAKKAMSETTI	F	S		1
A4524	8	MOUNIKA BOKKA	F	S	Ž	/
A4477	9	RAJA RAJESWARI KADIMI	F	S		
A4865	11	KEERTHI GUTHULA	F	S		1
A4795	12	SURYA MOUNIKA KOPPINEEDI	F	S		1
A4733	13	SHARON KUMARI GUTHULA	F	S		/
A4730	14	DIVYA SIRRA	F	S	/	1
A4740	15	KASTURI GURRAPU	F	S		
A4863	16	BABU RAO PUDI	М	S	/	V
A4742	17	SYAM PALIVELA	М	S	/	/
A4753	18	SRINIVAS GALI	М	S	1	1
A4553	19	PRAVE I MYLAVARAPU	М	S		
A4469	20	SAI DURGA PRASAD DEVARAPU	М	S	\checkmark	/
A4464	21	DURGA NAGA PAVAN MATTA	м	S	V	V
A4460	23	MOHAMMAD TAJUDDIN	М	S	X	X
A4458	24	NAGA VENKATA SAI RAMESH TAM	NUNA	S	X	X
A4517 .	25	VASU DUSANAPUDI	м	S	V	VA.
A4749	26	RAGHAVENDRA GUDALA RAO ALAP	ATI	S		¥.
A4750	27	VASUDEVA ADDALA	м	S	V	V

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DEPARTMENT OF PHYSICS

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Admn No.	II B.Sc MPC EM Roll No. I [*] ae of the student	Second Lang.	Registerd	ditio
A4754	28 RAM PRASAD TADI M	S	Y	X
A4584	29 BALAJI SANKARAPU M	S		1
A4520	30 RAMBABU KADIMI M	S	1	1
A4455	31 RAGHU RAM LAKKU M	S	V	V
A4579	32 PAVAN GOPAL KRISHNA MATTAPARTH	IIS	X	X
A4571	33 LAKSHMISAI PAVANKUMAR RAVURM.	S	1	1
A4582	34 SAILAKSHMI VANTEDDU F	т		V.
A4589	35 KANCHAN CHADALAWADA F	т		V
A4799	37 SUVARNA VILLURI F	т		V
A4557	38 VEERAVENKATA DURGAPRASANTH M	т		V
	CHENNAMSETTI			V
4463	39 DURGA MUTHYALA RAO KODI M	T	~ / ·	V
4744	43 BALAJI UNGARALA M	T		1
4734	44 HAREESH BABU VENDRA M	T		-/
4752	45 SAIBABA MONDEPULANKA M	T		\checkmark
4465	46 RAJU SOMISETTI M	T		V
4456	47 BALA SUBR HMANYAM TIRUMANI M	T	\checkmark	V
4485	48 KUMARASAI SIRIGINEEDI M	т	\checkmark	/
4526	49 VENKATA SIVA SAI KUNCHE M	т		/
4467	50 VENKATA CHIRANJEEVI EEVANA M	т	V	V
4518	51 MANIDHAR ADABALA M	т	V	1
4457	52°, NAGENDRA VARMA SAYYAPURAJU M	Т		V
4409	53 VENKATA DURGARAO KASA M	Ť.		\checkmark
4563	54 ROHITH SAI BHARAT VARMA ALLURI	Т		V
4572	55 RAVI KUMAR KODETI M	Т		1

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A4569	56	MANIKAN	TA CHI	NTAPALLI		MT		~

NO. J. Students Registered: 51 No. J. Students Completed: 46





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Admn	Roll			Second		0
No.	No.	Name of the student		Lang.	Registerd	comple
A4333	1	NANDAKALYANI OGGU	F	S	\checkmark	\checkmark
A4367	• 3	NAGA SATYA DEVI SRI KONDAV	EIFI	S	\checkmark	/
A4334	4	SRIPRIYA BANDARU	F	S		V
A4380	5	DHANA LAKSHMI BATTULA	F	S	\checkmark	V.
A4317	6	DURGA "HAVANI BODDU	F	S	\checkmark	V
A4332	7	SUBHASHINI KOPPARTHI	F	S	\checkmark	\checkmark
A4403	8	CHANDINI PEETANI	F	S		V
A4329	9	DHANA PRIYA SAMATAM	F	S	V	\checkmark
A4348	10	RAMASATYASAI PRATHYUSHA	F	S	\checkmark	\checkmark
	1. 1.	BOLISETTI		- Conserver		
A4400	11	MRUDULA KOPANATHI	F	S		/
A4406	12	MOUNIKA NAGA SRI SIRIGINEE	DF	S	\checkmark	J
A4328	13	RAJESWARI CHENNAPRAGADA	F	S		V
A4347	14	SATYA LURGA MARISETTI	F	S		V
A4381	15	SWATHI BARRE	F	S	V	V
A4346	16	PARVATHI NAGA SUDHA PATHI	F	S	\checkmark	V
A4402	17	RATNA DEEPIKA TIRUMALA	F	S	V,	V
A4395	18	SRI LAKSHMI DURGA PARASA	F	S	V,	V
A4399	19	MEENA KHANDAVALLI	F	S		V
A4398	20	GEETHA VENKATA LAKSHMI	F	S	\checkmark	V
		VEERAVALI				
A4451	21	SHANT SWARUPA ALAJINGI	F	S		V
A4425	22	DURGA BHAVANI KATTA	F	S	\checkmark	·V.
A4432	23	SATYA KUMARI VEGI	F	S		V

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Admn No.	Roll No.	Name of the student		Second Lang.	staduty Replied	cante
A4431	24	BALA YEMUNA THUMMA	F	S	\checkmark	\checkmark
A4857	25	AMRUTHA RAMAVARAPU	F	S	1	\checkmark
A4853	26	SAYYED SAFIYA	F	S	~	1
A4850	27	SRAVANI KOURU	F	S	\checkmark	V
A4852	28	RAMA TULAST POLISETTI	F	s	1	V
R4854	29	TEJASRI BOKKA	F	S	/	V
A4796	30	NANI MUPITHI	м	S	\checkmark	\checkmark
A4809	31	SUNNYBABU MYLABATHULA	м	S	X	X
A4419	32	CHINA SURENDRA GANJALA	м	S	1	V
A4576	33	VEERANJANEYA PRASAD DIVI	м	s	1	/
A4420	34	VAMSI PEMMI	м	S	\checkmark	\checkmark
A4493	35	SAI THADICHERLA	М	S		V.
A4452	36	SANJAY YTTAR KUKKALA	М	S ·	1	V
A4404	37	NAGA BALA NARENDRA KALYAN	м	S	1/	1
		ADDALA	1949 - P			
A4327	38	BALA SATYA APPAJI KURELLA	м	S		/
A4482	40	SHEIK TANISHA	м	S		
A4450	42	VARAPRASAD KOLLATI	м	S		\checkmark
A4345	43	KESAVA SRINIVAS KOURU	м	S	V	
A4405	44	LAKSHMANA SAI DEVARAPU	М	S		V
A4401	45	TEJA KADIUM	M	S	V	V
a4428	46	JANAKIRAM RAYI	м	S		V
A4417	4.7	DIVYA SNEHITHA PALLA	F	т	1	V
A4369	48	MAADHURYA THOTA	F	т	- /	V
A4731	49/	PAVANA TULASI PIPPALLA	F	т	COLLERE (AUT	1
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		II	B.Sc	MPCS	EM			Condi	tim
Admn No.	Roll No.	Sugar -	ame of t	he student			Second Lang.	studiet d	Ca
A4318	50	VENKATE	SH SAM	ATHAM		м	T	V	V
A4397	51	UDAYBHA	SKAR M	ALLADI		M	T		V
A4383	52	VENUPRA	KASH E	ASWANI		м	т		1

NO. of Students Registered: 50 No. of Students Completed: 49



Tr.	B.SC	MPC-	TM
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సంవత్సరము	2018-19

Pupils Attendance Register

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	12.		1	1	a	1	1	1	1	1	1	1	1	1	1	
	13.			1	a	1	1	1	1	1	1	1	1	1	1	
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నెల సంవత్సరము .	Pupils	Attendance Register
1 2	3	4 5
అడ్మిషస్ వ. నెంటరు నెం.	పేరు	కులము 1 2 3 4 5 6 7 8 9 10 11 12
1	CH. Goultame	aaaa11a111
2	k. Jyoth na	a a a 111111111
3	K.S. Duga bhavan	aa111/a11/a11
H	K. Ganga bhavani	a1aa111a1111
6	CH-L. plasanna	aaa11191191
7	A. Kavitha Ssi	11111101101
8	G.M. Vinkat Sai	aggagagagaga
9	D. Leeka Kishna	aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
10	D. Siva	aaaaaaaaaaaaaaa
12.	S. sai TeJa	a a a 1/ a 1/ a a a
13	R. chappavarthi	agaaaaaaaa
12 14	CH. Enoth Kumar	aaa111/2111
19	B. Jagadeesh babu	a aaa a a a 1 1 1 1
16	G. Rama Kgishna	aaa11110110
10 17	G. Thya Raju	aaa11011011
18	G. Rat Kumar	aaaaaaaaaaa
19	K. SanJay	aaaaaaaaaa
20		nadaaaaaaaa
21	T. Bhasani Kumar	a a a a a a a a a a
22	6. bharatty sai	aaa111 a1 111
23	G. Durgesh	aa111111111
24	T. Naga peddinthe	11110010111
25	V. Sustma Sli	aaalla 11911
26	T-V.S. Suya Lalitha	11110111011
27	D. Je Jeswari	11111211211
28	R. Mani Kanta	111/2/2/12/
29	D. Hemanth Kumar	aaaa1111111
30	K. Jagadish	aaaa1111111
31	V. Thailip	aaa111101111
33	T. Ravi TeJa	aaa1111011
34	K.J. Vara Barad	a a 111 a 11 a 11
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	ఉపాధ్యాయుని సంతకం	
	సాయండ్రం హాజరు : బాలురు 🔄 బాలికలు 📃	
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నెల సంవత్సరశ		Pupils	Attendance Register
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	1	T. Rohini	11/21/11/12
	2	M. Slavani	1/
	4	M. Negana	12/2/1/1/1/
	5	p. Amstitha valle	
	6	P. Keesthana	aa/1/////a/
	F	J- trima	11/1/22/12/
	8	R. Maini ka	
	9	R. Marni ka K.R. Raje swari	11111121011
	i	G. Keesthi	1/1/1/1/1/1/1/
	12	K. Surya Maunika	1111111111
	13	G. sharon Kumari	1110111111
	IH	S. Divya	aaa1/11/a1/
	15	G. Kasturi	100/1/1/101
	16	p. babu Rat	112/1/1/2/
	17	p. syam	1/1a/1/1a/1
	18	G. Sinivas	11/10/11/11
	19	M. plausen A	RaaaIIIaIII
	20	D.s. Duga Harad	11111221112
	21	M.D. Naga pavan	1/a/a////a/
	23	No Hammonad TaJuddy	accaa 1/a/la
	24	T.N.V. Sai Ramesh	acaaaalaaaa
	25	Di Vasu	aaallaaaaa
	26	A.R. Gudala Rao	111/1/1/1/
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-	89	S. Balenti	anallalli
	30	K. Rambabu	aaaaaa laaal aaall 1/1all
<u> </u>	31	L. Raghu Ram	aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
	32	R-L. Palap Ruman	aaa1/1/a/1/1
	34	V. Sai Lakoppi	aa111111111
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	49	E.V.	bisan Jeevi		1	1	a	1	a	10	2	1	19	a		
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