SHOBHAVANA CAMPUS, MIJAR – 574225, MOODBIDRI DAKSHINA KANNADA KARNATAKA, INDIA



Department of Mechanical Engineering CERTIFICATION COURSE

On

"Applied Thermal Engineering"

For the Academic Year

2020-21



Shobhavana Campus, Mijar, Moodbidri – 574 225 Phone: 08258-262725 Fax: 08258-262726 DEPARTMENT OF MECHANICAL ENGINEERING

Date: 18-01-2021

APPROVAL LETTER

To,

The Principal, AIET, Moodbidri

Respected Sir,

Sub: - Approval for Organizing the Students Certification/Training
Program on "Applied Thermal Engineering"-Reg.

With reference to the subject cited above, I would like to bring to your kind notice that, the Department is planning to host a Five day's Student Training Program/ hands on workshop on "Applied Thermal Engineering" from "25 January 2021" to 29 January 2021".

Kindly consider the above request and approve the same for further proceedings.

Thanking you Sir.

Coordinator:

Mr. Hemanth S

Head of the Department:

Alva's Institute of Engg. & Technology, Miljur, MOODBIDRI - 574 225, D.K.

Place: AIET, Moodbidri.



Shobhavana Campus, Mijar, Moodbidri – 574 225 Phone: 08258-262725 Fax: 08258-262726 DEPARTMENT OF MECHANICAL ENGINEERING

Date: 18-01-2021

CIRCULAR

All the students are hereby informed that there is a certification course on **Applied**Thermal Engineering which is scheduled from 25.01.2021 to 29.01.2021, which is conducted by Dr. Satyanarayana and Mr. K V Suresh at AIET, Dept of mechanical engineering, moodbidri. Interested students kindly register your names on or before 23.01.2021.

Head of the Department:



ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri – 574 225

Phone: 08258-262725 Fax: 08258-262726

DEDADTMENT OF MECHANICAL ENGINEERING DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR: 2014-15

CERTIFICATE PROGRAM ON APPLIED Thermal Engineering

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SL. No	Topic
1	Concept of two phase system - Formation of steam- Definition and representation of wet steam, dry steam, saturated steam and superheated steam on T-H Diagram. Concept and determination of dryness fraction-Degree of superheat-Latent heat-sensible heat, enthalpy-entropy-Internal energy-External work of evaporation and specific volume of steamUse of Steam tables and Mollier chart- (Heat Entropy Chart)Numerical examples based on above. Steam vapour cycles-Carnot cycle-Schematic diagram –Representation on PV & T-S diagramRankine cycle-Schematic diagram- Representation on PV & T-S diagram-(No numerical Problems on steam vapour cycles) Steam Calorimeters- Barrel Calorimeter, Separating Calorimeter, Throttling Calorimeter and combined Separating & Throttling calorimetersLimitations of Calorimeter.
2	Introduction-Steam condenser-Concept-Classification-Functions- Jet condensers and surface condensers-working-merits and demerits of surface condensers over jet condensers —Cooling towers- Classification, function and working. Steam nozzles-concept-Types-Flow of steam through convergent-divergent nozzle-Friction in a nozzle-Discharge of steam through nozzles-Critical pressure ratio (no derivation)-Methods of calculation of cross sectional areas at throat and exit for maximum discharge-Effect of friction in nozzles-Supersaturated flow through nozzle- Numerical on nozzles using Mollier Chart only.
3	Steam boiler-Concept-definition-Indian Boilers Regulation (IBR)- Classification of boiler – function of boiler-Low pressure boilers- Sketch and working of Cochran boiler- Babcock and Wilcox boiler-Merits and demerits- High pressure boilers- Sketch and working of Lamont and Benson boiler- Merits and demerits- Comparison of water tube and fire tube boilers- Boiler mountings and accessories, Boiler draught system-concept and classification -steam jet draught.
4	Air compressor-concepts, functions, classification and applications- Single stage reciprocating air compressor construction and working (with line diagram) Expression for work done and power required by single stage reciprocating compressor (without derivation), Simple problems on work done and power required. Multi stage compression – advantages of multistage compression-Rotary Compressors - working of rotary Compressor (oil free).
5	Refrigeration - Definition -Unit of refrigeration -Coefficient of performance (COP)-Vapour compress refrigeration with flow diagram-Vapour absorption refrigeration with flow diagram- Refrigerants -Type Factors affecting the choice of refrigerants- properties of good refrigerants. Psychrometry- definit Psychrometric terms - dry air, saturated air, dry bulb temperatureWet bulb temperature, dew point temperature humidity, absolute humidity, specific humidity. Air Conditioning- classification-winter Conditioning-Summer Air conditioning-Year round air conditioning-

Dept. Of Mechanical Engineering
Alva's Institute MOODEIDRI - 574 225
Mijar, MOODEIDRI - 574 225

Course Coordinator

ALVAS INSTITUTE OF ENGINEERING & TECHNOLOGY Shebhavana Campus, Mejar, Meddidn 574225 DEPARTMENT OF MECHANICAL ENGINEERING aictroech@gemil.com

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Dept. Of Mechanical Engineering

Alva's Institute of Engg. & Technology

Mijar, MOODBIDRI - 574 225



ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY
Shobhavana Campus, Mijar, Moodbidri - 574 225
Phone: 08258-262725 Fax: 08258-262726 DEPARTMENT OF MECHANICAL ENGINEERING

FEEDBACK FORM

Five days Students Training Program

"Applied Thermal Engineering"

For the following areas, please indicate your rating from 1 to 5: 1=strongly Disagree 2=Disagree 3=neither agree nor disagree 4=Agree 5=strongly Agree

SN	Topics 1	2	1	3 .	4	5				
A.	Content									
1	Understood the basics of Applied Thermal Engineering					~				
2	Understood the fundamental					1				
3	Able to apply the Applied Thermal Engineering Systems techniques for the problems at the hand.									
4	Understood the fundamentals of test document writing.		V	<u> </u>	1	1				
5	Able to write effective test documents.		- XIII		1	1				
В	Presentation				T					
6	Instructor's knowledge			1	1					
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С. Н	ow could this workshop be improved? by ding prope		P	ra	ch	(0,				
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DEPARTMENT OF MECHANICAL ENGINEERING

Quiz on Applied Thermal Engineering Course

•	2. Similar ing Course
 One ton of refrigeration is equal to a. 120 B Th U/hr b. 200 B Th U/hr c. 1200 B Th U/hr d. 12000 B Th U/hr Thermal efficiency of S.I. engines is low, due to a. low compression ratio b. high compression ratio Which of the following energy conversion devices convert heat into work? a. Electrical generators b. I. C engines c. Condensers d. All of the above Lancashire boilers are a. externally fired boilers b. internally fired boilers c. both a. and b. d. none of the above Smoke tube boilers have large water to steam ratio, hence a. have high evaporation rates b. are slow in operations c. temperature stresses inducing failure of feed water arrangement are maximum d. all of the above Pump transfers input mechanical energy of an a. pressure energy of a fluid b. kinetic energy of a fluid c. both a. and b. d. none of the above 	 7. What is the function of a moderator? a. Anchors b. Forebays c. Trash rack d. Surge tank 8. What is the function of a moderator? a. Increases the speed of neutrons b. Increases the speed of electrons c. Reduces the speed of electrons 9. A definite area or a place where some thermodynamic process takes place is known as a) Thermodynamic system b) Thermodynamic process d) Thermodynamic process d) Thermodynamic law 10. The measurement of a thermodynamic property known as the temperature is based on a. Zeroth law of thermodynamics b. First law of thermodynamics c. The second law of thermodynamics c. The amount of heat required to raise the temperature of the unit mass of gas through one degree at constant the unit mass of gas through one degree at constant b. Specific heat at volume b. Specific heat at constant pressure c. Kilojoule d. None of these

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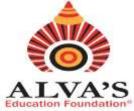
DEPARTMENT OF MECHANICAL ENGINEERING

Quiz on Applied Thermal Engineering Course

- 12. The states that change of internal energy of a perfect gas is directly proportional to the change of temperature
- a. Boyle's law
- b. Charle's law
- c. Gay-Lussac law
- d. Joule's law
- 13. Which of the following is an intensive property of a thermodynamic system?
- a. Pressure
- b. Volume
- c. Temperature
- d. Density
- 14. A process, in which the gas is heated or expanded in such a way that the product of its pressure and volume remains constant is known as
- a. Isothermal process
- b. Hyperbolic process
- c. Adiabatic process
- d. Polytropic process
- 15. An adiabatic process is one in which
- a. No heat enters or leaves the gas
- b. The temperature of the gas changes
- c. The change in internal energy is equal to the mechanical work done
- d. All of the above
- 16. The efficiency of joule cycle is
- a. Greater than Carnot cycle
- b. Less than Carnot cycle
- c. Equal to Carnot cycle

- d. None of these
- 17. Is an isothermal process
- a. There is no change in temperature
- b. There is no change in enthalpy
- c. There is no change in internal energy
- d. All of these
- 18. Otto cycle consists of
- a. Two constant volume and two isentropic processes
- b. Two constant pressure and two isentropic processes
- c. Two constant volume and two isothermal processes
- d. One constant pressure, one constant volume and two isotropic processes
- 19. The amount of heat generated per kg of fuel is known as
- a. Calrofic value
- b. Heat energy
- c. Lower calorific value
- d. Higher calorific value
- 20. Which of the following gas has the highest calorific value?
- a. Coal gas
- b. Producer gas
- c. Mond gas
- d. Blast furnace gas

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY MOODBIDRI



A Unit of Alva's Education Foundation®
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Shobhavana Campus, Mijar, Moodbidri DK Karnataka-574225

DEPARTMENT

MECHANICAL ENGINEERING

Certificate

Thís	ís to cert	ify that M	r./Ms		bea	aring the
USN		from			has	attended
the	Students	Workshop	Program	on	"Applied	Thermal
Engin	n <mark>eering</mark> " fro	om 25 Janua	ry 2021 to	29 Ja	inuary 202	21

Mr. Hemanth SCoordinator

Head of the Department Mechanical Engineering Dr. Peter Fernandes
Principal
AIET Moodbidri



Shobhavana Campus, Mijar, Moodbidri, D.K - 574225 Phone: 08258-262725, Fax: 08258-262726

DEPARTMENT OF MECHANICAL ENGINEERING

Report on Applied Thermal Engineering

The department of ME conducted a Five Days hands on students training program for the students of ME from 25-01-2015 to 29-01-2015 on "Applied Thermal Engineering" at AIET Moodbidri.

Dr. Satyanarayana & Mr. Shankarappa K, Department of Mechanical Engineering AIET, Moodbidri delivered a comprehensive and in depth information about the Fundamentals of Applied Thermal Engineering & its Principles, Techniques, Applications. Eighty participants have enthusiastically participated and learnt the application building.

Photo

