

Karamadai, Coimbatore - 641104

(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)
Ph: +91 91500 76729 Email: principal@ckec.ac.in Web: www.ckec.ac.in

PERMISSION LETTER

Date: 13-08-2020

From

Mr. Perumalsamy V

Assistant Professor / Course Coordinator

Department of Mechanical Engineering

Christ the King Engineering College

Coimbatore

To

The Principal

Christ the King Engineering College

Coimbatore

Through: Head of The Department / Mechanical Engineering

Respected Sir,

Sub: Requesting permission to organize a Value Added Course on "Fundamental Program on HVAC Designing" - Reg.

Department of Mechanical Engineering is planning to organize a Value Added Course on "Fundamental Program on HVAC Designing" from 17.08.2020 to 04.09.2020 for Third year Mechanical Engineering students. Mrs. Siby Joshy, Aghora Design Academy, Coimbatore as a Resource Person. In this regard, we seek your permission to conduct the same in the CAD Lab from 17.08.2020 to 04.09.2020 from 4 pm to 7 pm. Kindly consider our request and grant the same.

Thanking You,

Dr.M.JEYAKUMAR, M.E.,Ph.D PRINCIPAL CHRIST THE KING ENGINEERING COLLEGE, Chikkarampalayam Village, Karamadai, Mettupalayam Taluk, Coimbatore - 641 104.

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Yours truly

Approved

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DEPARTMENT OF MECHANICAL ENGINEERING

Ref.No: CKEC/MECH/VAC/20-21/001

DATE: 14-08-2020

CIRCULAR

This is to inform that the department of Mechanical engineering is planning to conduct a value-added course on "FUNDAMENTAL PROGRAM ON HVAC DESIGNING" for all third year students on 17.08.2020 to 04.09.2020 Students are asked to register you and utilize this opportunity to improve their skills.

S. No	Course Code	Name of the Course	Departmen t	No of Hours	Course Coordinator
1	VAME2003	FUNDAMENTAL PROGRAM ON HVAC DESIGNING	Mech	32	Mr. Perumalsamy V

Note: The circular Display in the department Notice board for student's attention.

Copy to:

Principal's Desk Notice board

Dr.M.JEYAKUMAR, M.E.,Ph.D. PRINCIPAL

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CHRIST THE KING ENGINEERING COLLEGE



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DEPARTMENT OF MECHANICAL ENGINEERING

Organizes

Value Added Course on

Fundamental Program on HVAC Designing

17.08.2020 TO 04.09.2020 (4 TO 7PM)

Resource Person

Mrs. Siby Joshy
Aghora Design Academy
Coimbatore

For III Year Students

CHIEF PATRON

Dr. M. Jeyakumar Principal

Venue: CAD Lab

PATRON

Dr. R. Hari Prasath HOD / MECH

COORDINATOR

Mr. V. Perumalsamy
AP / MECH

Dr.M.JEYAKUMAR, M.E.,Ph.D.

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DEPARTMENT OF MECHANICAL ENGINEERING

Course Code	VAME2003
Name Of the Course	FUNDAMENTAL PROGRAM ON HVAC DESIGNING
Duration Of the Course	32 Hours
Academic Year	2020-2021
Period Of the Course	15 Days

COURSE OBJECTIVES:

- o To enable the students to understand centralised air conditioning system
- o To understand supply, return and ventilation routing by using auto cad software.
- o To expose the students to Auto Cad 2-D

Syllabus

UNIT I - AUTO CAD DRAFTING - MODULE I

(6)

Introduction to Auto CAD 2-D - Getting Started with Auto CAD- Starting with Advanced Sketching-Working with Drawing Aids-Editing Sketched Objects-I - Editing Sketched Objects II- Creating Text and Tables

UNIT II - AUTO CAD DRAFTING - MODULE II

(6)

Basic Dimensioning, Geometric Dimensioning, and Tolerance - Editing Dimensions - Dimension Styles, Multileader Styles, and System Variables - Hatching Drawings - Working with Blocks

UNIT III - FUNDAMENTAL CONCEPT OF HVAC I

(6)

Fundamental and scope of HVAC - Mode of heat transfer- Standards- Refrigeration cycle- Component of A/C - Refrigerants and types - Window Air Conditioning Systems

UNIT IV - FUNDAMENTAL CONCEPT OF HVAC I

(6)

Split Air Conditioning Systems - Central Air Conditioning Systems - Package Air Conditioning Systems - (KARAMATORE)

1.JEYAKUMAR, M.E.,Ph.D.
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Study of Psychometric

UNIT V - DUCT DESIGNING AND HEAT LOAD CALCULATION

(7)

Types of duct — duct material - duct designing method — equal friction method — velocity reduction method — ASHRAE standards — heat load calculation by using thumb rule -Ventilation, Infiltration load calculations -Study & Preparation of Floor Drawings.

TOTAL HOURS:31

COURSE OUTCOME:

- Students will be able to understand air-conditioning and ventilation system
- Students can aware the concept of HVAC ducting and load calculation
- Students can able to get exposure in Autocad software

TEXT BOOK & REFERENCES:

- 1. Amrutha Rao Malli, A Practical Approach On Heating Ventilation & Air Conditioning Technology, Kindle Edition
- 2. Parker, Spitler Mcquiston, Heating, Ventilating and Air Conditioning: Analysis and Design
- 3. The American Society of Heating, Refrigerating and Air-Conditioning Engineers hand book, ASHRAE publication
- 4. The revised "Round Industrial Duct Construction Standards," 3rd edition, 2013, an American National Standard, ANSI/SMACNA 005-2013

Dr.M.JEYAKUMAR, M.E.,Ph.D.
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DEPARTMENT OF MECHANICAL ENGINEERING VAME2003 - Fundamental Program on HVAC Designing SCHEDULE

S. No	DAY	TIME/SESSION	CONTENT	RESOURCE PERSON
	17.08.2020	4.00-6.00pm		
1	18.08.2020	4.00-6.00pm	AUTO CAD DRAFTING – MODULE I	
	19.08.2020	4.00-6.00pm		
	21.08.2020	4.00-6.00pm		
2	23.08.2020	4.00-6.00pm	AUTO CAD DRAFTING – MODULE II	ie.
	24.08.2020	4.00-6.00pm		
	25.08.2020	4.00-6.00pm		
	26.08.2020	4.00-6.00pm		
3	28.08.2020	4.00-6.00pm	FUNDAMENTAL CONCEPT OF HVAC I	Mrs. Sibi Joshy Aghora Design Academy, Coimbatore
	29.08.2020	4.00-6.00pm		
4	30.08.2020	4.00-6.00pm	FUNDAMENTAL CONCEPT OF HVAC II	
	01.09.2020	4.00-7.00pm		
	02.09.2020	4.00-7.00pm	DUCT DESIGNING AND HEAT LOAD	
5	03.09.2020	4.00-7.00pm	CALCULATION	
	04.09.2020	4.00-5.00pm	ASSESSMENT	

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Karamadai, Coimbatore - 641104

DEPARTMENT OF MECHANICAL ENGINEERING VAME2003 - Fundamental Program on HVAC Designing STUDENT REGISTRATION

S.NO.	REGISTER NUMBER	NAME OF THE STUDENT	SIGNATURE
1	710418114001	Abinesh G	Luy
2	710418114002	Ajay B	Diay.
3	710418114003	Alaguraja T	Day was
4	710418114004	Alan Jose	Alan Tags
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33	710418114045	Ramakrishnan R	(12 KR
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53	710418114302	Hemanth M	10-1-
54	710418114303	Krishnakumar S	No.
55	710418114304	Mallikaarjunan S	AN M
56	710418114305	Sanjay G	
57	710418114701	Mahendran E	N /

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DEPARTMENT OF MECHANICAL ENGINEERING VAME2003 - Fundamental Program on HVAC Designing STUDENTS ATTENDANCE LISI'

S.No	REGISTER	NAME OF THE	17.08.2020	18.08.2020	19.08.2020	21.08.2020	23.08.2020
5.110	NUMBER	STUDENT	4-6.00pm	4-6.00pm	4-6.00pm	4-6.00pm	4-6.00pm
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Dr.M.JEYAKUMAR, M.E.,Ph.D PRINCIPAL CHRIST THE KING ENGINEERING COLLEGE, Chikkarampalayam Village, Karamadai, Mettupalayam Taluk, Coimbatore - 641 104.



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S.No	REGISTER	NAME OF THE	24.08.2020	25.08.2020	26.08.2020	28.08.2020	29.08.2020
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S.No NUMBER NUMBER STUDENT 4-6.00pm 4-7.00pm 4-7.00pm 4-5.00pm 4-7.00pm 4-7.00pm 4-7.00pm 4-5.00pm 4-7.00pm 4-7.0				20.00.2020	01 00 2020	02.00.2020	02.00.2020	04.00.2020
1	S.No			30.08.2020	01.09.2020	02.09.2020	03.09.2020	04.09.2020
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Hop MECH



Karamadai, Coimbatore - 641104

DEPARTMENT OF MECHANICAL ENGINEERING VAME2003 - Fundamental Program on HVAC Designing MULTIPLE CHOICE QUESTION

. In AutoCAD 2D Modelling	, which axis is not	t accessible for drafting?
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- A) X
- B) Y
- C) Z
- D) WCS
- 2. A Polyline can be broken into individual lines and arcs using which of the following command?
- A) BREAK
- B) TRIM
- C) EXPLODE
- D) OVERKILL
- 3. Origin of the AutoCAD drawing space is:
- A) 0,0
- B) 1,0
- C) 0,1
- D) 1,1
- 4. Scrolling of the mouse can perform which of the following actions?
- A) Zoom in / zoom out
- B) Pan & scan
- C) Extents / all
- D) Scale
- 5. What is the primary purpose of refrigeration?
- A) Removing heat from a substance and cooling it below the actual temperature
- B) Adding heat to a substance and cooling it to a temperature
- C) Increasing humidity in the air by adding heat
- D) None of the mentioned
- 6. In the air refrigeration cycle, where is the refrigerant used?
- A) In the compressor
- B) In the condenser
- C) Directly in contact
- D) Not used at all
- 7. What does the term "C.O.P." stand for in refrigeration?
- A) Cooling for Performance
- B) Coefficient of Performance
- C) Capacity of Performance



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- D) Coefficient of Plant
- 8. Which of the following is NOT an advantage of using a closed air refrigeration system?
- A) Compact construction
- B) Lower coefficient of performance
- C) Lighter weight
- D) Environmentally friendly
- 9. The air in a duct system should be distributed based upon:
- A) The heat load of the rooms
- B) Air leaks
- C) Throw
- D) The manufacturer's blower data
- 10. Why should air velocity in branch ducts be limited to 600 ft per minute?
- A) To minimize air noise
- B) Air leaks
- C) The manufacturer's blower data

D) Throw

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DEPARTMENT OF MECHANICAL ENGINEERING VAME2003 - Fundamental Program on HVAC Designing STUDENTS ASSESSMENT MARKS

S.NO	REG.NO	NAME OF THE STUDENT	MARKS 10	
1	710418114001	Abinesh G	9	
2	710418114002	Ajay B	9	
3	710418114003	Alaguraja T	9	
4	710418114004	Alan Jose	9	
5	710418114005	Anbarasan U	8	
6	710418114007	Anu Baby M	8	
7	710418114011	Ashwin Kumar V	9	
8	710418114012	Barath C N	1	
9	710418114013	Bharathi S	8	
10	710418114014	Celus Flacher M	8	
11	710418114015	Demitus Ajun D	9	
12	710418114017	Dishin A	9	
13	710418114021	Gowtham P	9	
14	710418114022	Guruprasath P	9	
15	710418114024	Helen Jacob		
16	710418114025	Jeevananthan M		
17	710418114026	Jeganathan P		
18	710418114027	Joel Roy 7		
19	710418114028	Kamalesh M		
20	710418114029	Karna P		
21	710418114031	Karuppasamy K		
22	710418114032	Mathan B		
23	710418114034	Murugan V		





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24	710418114035	Muthu Kumar K		
25	710418114036	Naga Raja M		
26	710418114037	Naveen Raj B	٩	
27	710418114038	Nilesh Roshan M	9	
28	710418114039	Nitheesh Kumar D	9	
29	710418114040	Nithyanantham T	8	
30	710418114041	Prabin John J	8	
31	710418114042	Pradeep R	8	
32	710418114044	Raja G	8	
33	710418114045	Ramakrishnan R	8	
34	710418114046	Ranjith Kumar R	8	
35	710418114047	Roshan Dass A	8	
36	710418114048	Sakthi Varman R	٩	
37	710418114050	Santhosh Kumar S	7	
38	710418114051	Saran Kumar M	7	
39	710418114053	Seenivasan K	9	
40	710418114054	Shane Johnson B	9	
41	710418114056	Sudhakar M	8	
42	710418114057	Sugadheep R	7	
43	710418114058	Sundar Singh K		
44	710418114060	Tamiliniyan M		
45	710418114061	Tharunesh N 8		
46	710418114062	Udhayan C 8		
47	710418114054	Vasanth M	8	
48	710418114065	Vasanthakumar M	9	
49	710418114066	Venkatesh K		
50	710418114067	Vijay S		
51	710418114068	Vinoth C NG ENGIN 7		
52	710418114301	Ajith Kumar S	8	

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53	710418114302	Hemanth M	9
54	710418114303	Krishnakumar S	8
55	710418114304	Mallikaarjunan S	8
56	710418114305	Sanjay G	9
57	710418114701	Mahendran E	7

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VAME2003 - FUNDAMENTAL PROGRAM ON HVAC DESIGNING

MULTIPLE CHOICE QUESTION

: Alan Jose. Name

: 710418114004 Register No.

: III | V Year / Sem

Academic Year : 2020 - 21

1. In AutoCAD 2D Modelling, which axis is not accessible for drafting?

A) X

B) Y

SXZ

D) WCS

2. A Polyline can be broken into individual lines and arcs using which of the following command?

A) BREAK

B) TRIM

EXPLODE

D) OVERKILL

3. Origin of the AutoCAD drawing space is:

AN0.0

B) 1,0

C) 0,1

D) 1,1

4. Scrolling of the mouse can perform which of the following actions?

A) Zoom in / zoom out

B) Pan & scan

Extents / all

D) Scale

5. What is the primary purpose of refrigeration?

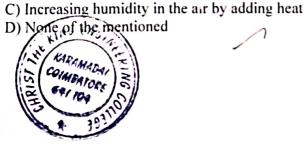
Dr.M.JEYAKUMAR, M.E.,Ph.D.

A Removing heat from a substance and cooling it below the actual temperature

B) Adding heat to a substance and cooling it to a temperature CHRIST THE KING ENGINEERING COLLEGE.

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	Ph: +91 91500 76729	Email: principal@ckec.ac.in	Web: www.ckec.ac.in
6. In the air refrigeration cyc A) In the compressor B) In the condenser C) Directly in contact D) Not used at all	le, where is the refrig	erant used?	
7. What does the term "C.O. A) Cooling for Performance B) Coefficient of Performance Capacity of Performance D) Coefficient of Plant		eration?	
8. Which of the following is A) Compact construction B) Lower coefficient of perf C) Lighter weight D) Environmentally friendly	Formance	f using a closed air refrigera	ation system?
9. The air in a duct system s A) The heat load of the room B) Air leaks C) Throw D) The manufacturer's blow	ms	oased upon:	
10. Why should air velocity A) To minimize air noise B) Air leaks C) The manufacturer's blow D) Throw	•	nited to 600 ft per minute?	
	7/10	forde	HOD/MECH
TING A	Dr.M.JEY	AKUMAR, M.E.,Ph.D. PRINCIPAL ING ENGINEERING COLLEGE,	
W KIND ENG	THE K	ING ENGINEERING COLLEGE	



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DEPARTMENT OF MECHANICAL ENGINEERING

STUDENT FEEDBACK FORM

Name of the value added course: Fundamental Program on HVAC Pasigning.

Name of the student: Ajay. B Register Number: 710418114002

Year / Semester: ill /v

Batch: 2018 - 2022

Course Coordinator: Mr. Parumal samy. V

Academic Year: 2020 - 2021

Sl.No.	Criteria	Rating				
		Excellent	Good	Average	Satisfactory	Poor
1.	Course content		1			
2.	Individual attention					
3.	Level of the course		-	N		
4.	Regularity and knowledge of faculty					
5.	Coverage of syllabus	\sim				
6.	Interaction			•		
7.	Outcome		1			
	Total	10	12	3	2	
	Remarks	yood				

EXCELLENT-5

GOOD-4

AVERAGE-3

SATISFACTORY-2

POOR-1

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DEPARTMENT OF MECHANICAL ENGINEERING

POST EVENT REPORT

Course code	VAME2003		
Name of the course	FUNDAMENTAL PROGRAM ON HVAC DESIGNING		
Duration of the course	32 Hours		
Academic year	2020-2021		
Period of the course	15 Days		
Coordinator & Faculty handling the course	Mr. Perumalsamy V Mrs. Siby Joshy		
Number of the students registered	45		
Number of the students completed	45		
% of students completed the course	100%		
Details of the course	HVAC Design Fundamentals involve both art and science. The art aspect includes understanding client needs, occupant comfort, and architectural coordination. The science aspect relies on proven formulas, equations, and software tools to create efficient heating, ventilation, and air conditioning systems.		

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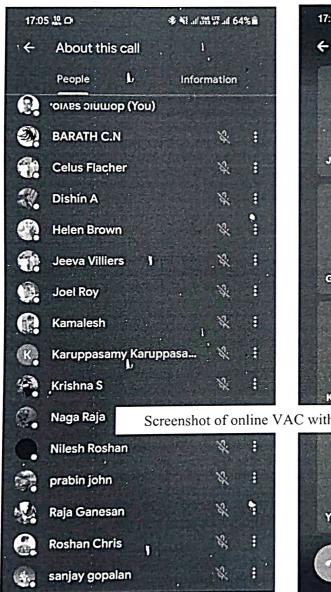


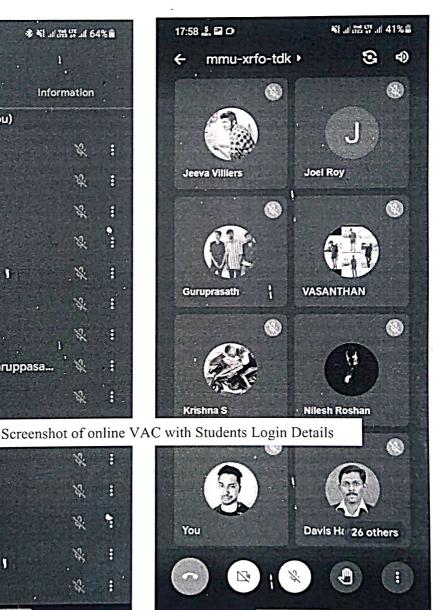


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PHOTOS





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CERTIFICATE



CHRIST THE KING ENGINEERING COLLEGE

KARAMADAI COIMBATORE-641104 AGHORA DESIGNING ACADEMY COIMBATORE



CERTIFICATE OF TRAINING

Reg. No. 71041814012

This is to certify that

BARATH, C.N.

has successfully completed High Intensity Programme on Fundamental Program on HVAC Designing

conducted by Aghorn Design Academy in association with Christ The King Engineering College,

Coimbatore, under Anna University from 17.08.2020 to 04.09.2020.

Department of Mechanical Engineering

Aghora Design Academy



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KARAMADAI COIMBATORE-641104 AGHORA DESIGNING ACADEMY COIMBATORE



CERTIFICATE OF TRAINING

Reg. No. 710418114302

This is to certify that

HEMANTH M

has successfully completed High Intensity Programme on Fundamental Program on HVAC Designing

conducted by Aghora Design Academy in association with Christ The King Engineering College,

Coimbatore, under Anna University from 17.08.2020 to 04.09.2020

Principal

Technical Director

Department of Mechanical Engineering

MAR. M.L Dr.M.JEYAKL PRINCIPAL CHRIST THE KING ENGINEERING COLLEGE,

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