



# CHRIST THE KING ENGINEERING COLLEGE

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

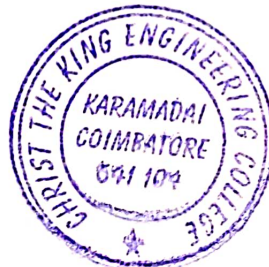
### Respected Sir,

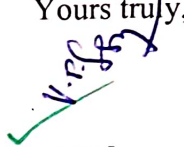

Sub: Requesting permission to organize a Value Added Course on "Fundamental Program on HVAC Designing" -  
Reg.

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.



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	Department	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

  
HOD / MECH

  
**Dr.M.JEYAKUMAR, M.E.,Ph.D.**  
PRINCIPAL  
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Chikkarampalayam Village,  
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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:

- To enable the students to understand centralised air conditioning system
- To understand supply, return and ventilation routing by using auto cad software.
- 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-



  
M. JEYAKUMAR, M.E., Ph.D.  
PRINCIPAL  
CHRIST THE KING ENGINEERING COLLEGE



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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**

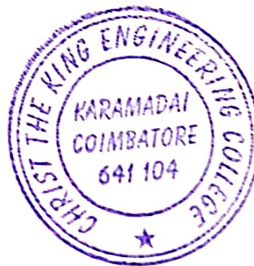
### COURSE OUTCOME:

- 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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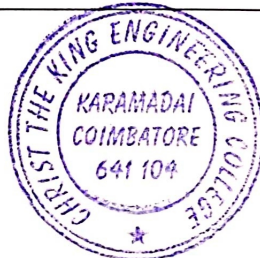
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## DEPARTMENT OF MECHANICAL ENGINEERING VAME2003 - Fundamental Program on HVAC Designing SCHEDULE

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

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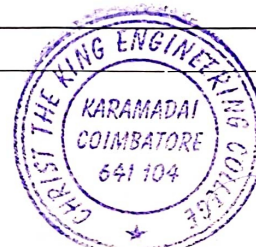
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## DEPARTMENT OF MECHANICAL ENGINEERING VAME2003 - Fundamental Program on HVAC Designing STUDENT REGISTRATION

S.NO.	REGISTER NUMBER	NAME OF THE STUDENT	SIGNATURE
1	710418114001	Abinesh G	
2	710418114002	Ajay B	
3	710418114003	Alaguraja T	
4	710418114004	Alan Jose	
5	710418114005	Anbarasan U	
6	710418114007	Anu Baby M	
7	710418114011	Ashwin Kumar V	
8	710418114012	Barath C N	
9	710418114013	Bharathi S	
10	710418114014	Celus Flacher M	
11	710418114015	Demitus Ajun D	
12	710418114017	Dishin A	
13	710418114021	Gowtham P	
14	710418114022	Guruprasath P	
15	710418114024	Helen Jacob	
16	710418114025	Jeevananthan M	
17	710418114026	Jeganathan P	
18	710418114027	Joel Roy	
19	710418114028	Kamalesh M	
20	710418114029	Karna-P	
21	710418114031	Karuppasamy K	
22	710418114032	Mathan B	
23	710418114034	Murugan V	
24	710418114035	Muthu Kumar K	
25	710418114036	Naga Raja M	
26	710418114037	Naveen Raj B	
27	710418114038	Nilesh Roshan M	
28	710418114039	Nitheesh Kumar D	
29	710418114040	Nithyanantham T	
30	710418114041	Prabin John J	
31	710418114042	Pradeep R	
32	710418114044	Raja G	
33	710418114045	Ramakrishnan R	
34	710418114046	Ranjith Kumar R	
35	710418114047	Roshan Dass A	
36	710418114048	Sakthi Varman R	

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37	710418114050	Santhosh Kumar S	
38	710418114051	Saran Kumar M	
39	710418114053	Seenivasan K	
40	710418114054	Shane Johnson B	
41	710418114056	Sudhakar M	
42	710418114057	Sugadheep R	
43	710418114058	Sundar Singh K	
44	710418114060	Tamiliniyan M	
45	710418114061	Tharunesl. N	
46	710418114062	Udhayan C	
47	710418114064	Vasanth M	
48	710418114065	Vasanthakumar M	
49	710418114066	Venkatesh K	
50	710418114067	Vijay S	
51	710418114068	Vinoth C	
52	710418114301	Ajith Kumar S	
53	710418114302	Hemanth M	
54	710418114303	Krishnakumar S	
55	710418114304	Mallikaarjunan S	
56	710418114305	Sanjay G	
57	710418114701	Mahendran E	

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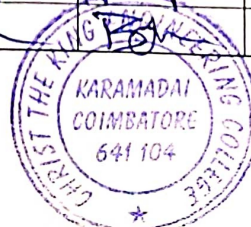
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## DEPARTMENT OF MECHANICAL ENGINEERING VAME2003 - Fundamental Program on HVAC Designing STUDENTS ATTENDANCE LISI'

S.No	REGISTER NUMBER	NAME OF THE STUDENT	17.08.2020	18.08.2020	19.08.2020	21.08.2020	23.08.2020
			4-6.00pm	4-6.00pm	4-6.00pm	4-6.00pm	4-6.00pm
1	710418114001	Abinesh G	AB	AB	AB	AB	AB
2	710418114002	Ajay B	AB	AB	AB	AB	AB
3	710418114003	Alaguraja T	AB	AB	AB	AB	AB
4	710418114004	Alan Jose	AB	AB	AB	AB	AB
5	710418114005	Anbarasan U	AB	AB	AB	AB	AB
6	710418114007	Anu Baby M	AB	AB	AB	AB	AB
7	710418114011	Ashwin Kumar V	AB	AB	AB	AB	AB
8	710418114012	Barath C N	AB	AB	AB	AB	AB
9	710418114013	Bharathi S	AB	AB	AB	AB	AB
10	710418114014	Celus Flacher M	AB	AB	AB	AB	AB
11	710418114015	Demitus Ajun D	AB	AB	AB	AB	AB
12	710418114017	Dishin A	AB	AB	AB	AB	AB
13	710418114021	Gowtham P	AB	AB	AB	AB	AB
14	710418114022	Guruprasath P	AB	AB	AB	AB	AB
15	710418114024	Helen Jacob	AB	AB	AB	AB	AB
16	710418114025	Jeevananthan M	AB	AB	AB	AB	AB
17	710418114026	Jeganathan P	AB	AB	AB	AB	AB
18	710418114027	Joel Roy	AB	AB	AB	AB	AB
19	710418114028	Kamalesh M	AB	AB	AB	AB	AB
20	710418114029	Karna P	AB	AB	AB	AB	AB
21	710418114031	Karuppasamy K	AB	AB	AB	AB	AB
22	710418114032	Mathan B	AB	AB	AB	AB	AB
23	710418114034	Murugan V	AB	AB	AB	AB	AB
24	710418114035	Muthu Kumar K	AB	AB	AB	AB	AB
25	710418114036	Naga Raja M	AB	AB	AB	AB	AB
26	710418114037	Naveen Raj B	AB	AB	AB	AB	AB
27	710418114038	Nilesh Roshan M	AB	AB	AB	AB	AB
28	710418114039	Nitheesh Kumar D	AB	AB	AB	AB	AB
29	710418114040	Nithyanantham T	AB	AB	AB	AB	AB
30	710418114041	Prabin John J	AB	AB	AB	AB	AB
31	710418114042	Pradeep R	AB	AB	AB	AB	AB
32	710418114044	Raja G	AB	AB	AB	AB	AB
33	710418114045	Ramakrishnan R	AB	AB	AB	AB	AB
34	710418114046	Ranjith Kumar R	AB	AB	AB	AB	AB
35	710418114047	Roshan Dass A	AB	AB	AB	AB	AB

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36	710418114048	Sakthi Varman R			AB		
37	710418114050	Santhosh Kumar S					
38	710418114051	Saran Kumar M					
39	710418114053	Seenivasan K					
40	710418114054	Shane Johnson B					
41	710418114056	Sudhakar M					
42	710418114057	Sugadheep R					
43	710418114058	Sundar Singh K					
44	710418114060	Tamiliniyan M					
45	710418114061	Tharunesh N					
46	710418114062	Udhayan C					
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51	710418114068	Vinoth C					AB
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53	710418114302	Hemanth M					
54	710418114303	Krishnakumar S					
55	710418114304	Mallikaarjunan S					
56	710418114305	Sanjay G					
57	710418114701	Mahendran E					

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S.No	REGISTER NUMBER	NAME OF THE STUDENT	24.08.2020	25.08.2020	26.08.2020	28.08.2020	29.08.2020
			4-6.00pm	4-6.00pm	4-6.00pm	4-6.00pm	4-6.00pm
1	710418114001	Abinesh G	Any	Any	Any	Any	Any
2	710418114002	Ajay B	Ajay	Ajay	Ajay	Ajay	Ajay
3	710418114003	Alaguraja T	Alaguraj	Alaguraj	Alaguraj	Alaguraj	Alaguraj
4	710418114004	Alan Jose	Alan	Alan	Alan	Alan	Alan
5	710418114005	Anbarasan U	Anbarasan	Anbarasan	Anbarasan	Anbarasan	Anbarasan
6	710418114007	Anu Baby M	Anu	Anu	Anu	Anu	Anu
7	710418114011	Ashwin Kumar V	AK	AK	AK	AB	AK
8	710418114012	Barath C N	AB	Barath	Barath	Barath	Barath
9	710418114013	Bharathi S	Bharathi	Bharathi	Bharathi	Bharathi	Bharathi
10	710418114014	Celus Flacher M	Celus	Celus	Celus	Celus	Celus
11	710418114015	Demi'us Ajun D	Demi'us	Demi'us	Demi'us	Demi'us	Demi'us
12	710418114017	Dishin A	Dishin	Dishin	AB	Dishin	Dishin
13	710418114021	Gowtham P	Gowtham	Gowtham	Gowtham	Gowtham	Gowtham
14	710418114022	Guruprasath P	Guruprasath	Guruprasath	Guruprasath	AB	Guruprasath
15	710418114024	Helen Jacob	Helen	Helen	Helen	AB	Helen
16	710418114025	Jeevananthan M	Jeevan	Jeevan	Jeevan	AB	Jeevan
17	710418114026	Je ganathan P	Je ganathan	AB	Je ganathan	Je ganathan	Je ganathan
18	710418114027	Joel Roy	Joel	Joel	Joel	Joel	Joel
19	710418114028	Kamalesh M	Kamalesh	Kamalesh	AB	Kamalesh	Kamalesh
20	710418114029	Karna P	Karna	Karna	Karna	Karna	Karna
21	710418114031	Karuppasamy K	Karuppasamy	Karuppasamy	Karuppasamy	Karuppasamy	Karuppasamy
22	710418114032	Mathan B	Mathan	AB	Mathan	Mathan	Mathan
23	710418114034	Murugan V	Murugan	Murugan	Murugan	Murugan	Murugan
24	710418114035	Muthu Kumar K	Muthu	Muthu	Muthu	AB	Muthu
25	710418114036	Naga Raja M	Naga Raja	Naga Raja	Naga Raja	Naga Raja	Naga Raja
26	710418114037	Naveen Raj B	Naveen	Naveen	Naveen	Naveen	Naveen
27	710418114038	Nilesh Roshan M	Nilesh	Nilesh	AB	Nilesh	Nilesh
28	710418114039	Nitheesh Kumar D	Nitheesh	Nitheesh	AB	Nitheesh	Nitheesh
29	710418114040	Nithyanantham T	Nithyanantham	Nithyanantham	AB	Nithyanantham	Nithyanantham
30	710418114041	Prabin John J	Prabin	Prabin	Prabin	Prabin	Prabin
31	710418114042	Pradeep R	Pradeep	Pradeep	AB	Pradeep	Pradeep
32	710418114044	Raja G	Raja	Raja	Raja	Raja	Raja
33	710418114045	Ramakrishnan R	Ramakrishnan	Ramakrishnan	AB	Ramakrishnan	Ramakrishnan
34	710418114046	Ranjith Kumar R	Ranjith	Ranjith	AB	Ranjith	Ranjith
35	710418114047	Roshan Dass A	Roshan	Roshan	Roshan	AB	Roshan
36	710418114048	Sakthi Varman R	Sakthi	Sakthi	Sakthi	Sakthi	AB
37	710418114050	Santhosh Kumar S	Santhosh	Santhosh	Santhosh	Santhosh	Santhosh

*D.M. Jeyakumar*  
**D.M. JEYAKUMAR, M.E., Ph.D.**  
 PRINCIPAL  
 CHRIST THE KING ENGINEERING COLLEGE,  
 Chitkarampalayam Village,





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38	710418114051	Saran Kumar M	<i>Saran</i>	<i>Saran</i>	<i>Saran</i>	<i>Saran</i>	<i>Saran</i>
39	710418114053	Seenivasan K	<i>Seenivasan</i>	<i>Seenivasan</i>	<i>Seenivasan</i>	<i>Seenivasan</i>	<i>Seenivasan</i>
40	710418114054	Shane Johnson B	<i>Shane</i>	<i>Shane</i>	<i>Shane</i>	<i>Shane</i>	<i>Shane</i>
41	710418114056	Sudhakar M	<i>Sudhakar</i>	<i>Sudhakar</i>	<i>Sudhakar</i>	<i>Sudhakar</i>	<i>Sudhakar</i>
42	710418114057	Sugadheep R	<i>Sugadheep</i>	<i>Sugadheep</i>	<i>Sugadheep</i>	<i>Sugadheep</i>	<i>Sugadheep</i>
43	710418114058	Sundar Singh K	<i>Sundar</i>	<i>Sundar</i>	<i>Sundar</i>	<i>Sundar</i>	<i>Sundar</i>
44	710418114060	Tamiliniyan M	<i>Tamiliniyan</i>	<i>Tamiliniyan</i>	<i>Tamiliniyan</i>	<i>Tamiliniyan</i>	<i>Tamiliniyan</i>
45	710418114061	Tharunesh N	<i>Tharunesh</i>	<i>Tharunesh</i>	<i>Tharunesh</i>	<i>Tharunesh</i>	<i>Tharunesh</i>
46	710418114062	Udhayan C	<i>Udhayan</i>	<i>Udhayan</i>	<i>Udhayan</i>	<i>Udhayan</i>	<i>Udhayan</i>
47	710418114064	Vasanth M	<i>Vasanth</i>	<i>Vasanth</i>	<i>Vasanth</i>	<i>Vasanth</i>	<i>Vasanth</i>
48	710418114065	Vasanthakumar M	<i>Vasanthakumar</i>	<i>Vasanthakumar</i>	<i>Vasanthakumar</i>	<i>Vasanthakumar</i>	<i>Vasanthakumar</i>
49	710418114066	Venkatesh K	<i>Venkatesh</i>	<i>Venkatesh</i>	<i>Venkatesh</i>	<i>Venkatesh</i>	<i>Venkatesh</i>
50	710418114067	Vijay S	<i>Vijay</i>	<i>Vijay</i>	<i>Vijay</i>	<i>Vijay</i>	<i>Vijay</i>
51	710418114068	Vinoth C	<i>Vinoth</i>	<i>Vinoth</i>	<i>Vinoth</i>	<i>Vinoth</i>	<i>Vinoth</i>
52	710418114301	Ajith Kumar S	<i>Ajith</i>	<i>Ajith</i>	<i>Ajith</i>	<i>Ajith</i>	<i>Ajith</i>
53	710418114302	Hemanth M	<i>Hemanth</i>	<i>Hemanth</i>	<i>Hemanth</i>	<i>Hemanth</i>	<i>Hemanth</i>
54	710418114303	Krishnakumar S	<i>Krishnakumar</i>	<i>Krishnakumar</i>	<i>Krishnakumar</i>	<i>Krishnakumar</i>	<i>Krishnakumar</i>
55	710418114304	Mallikaarjunan S	<i>Mallikaarjunan</i>	<i>Mallikaarjunan</i>	<i>Mallikaarjunan</i>	<i>Mallikaarjunan</i>	<i>Mallikaarjunan</i>
56	710418114305	Sanjay G	<i>Sanjay</i>	<i>Sanjay</i>	<i>Sanjay</i>	<i>Sanjay</i>	<i>Sanjay</i>
57	710418114701	Mahendran E	<i>Mahendran</i>	<i>Mahendran</i>	<i>Mahendran</i>	<i>Mahendran</i>	<i>Mahendran</i>

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*[Signature]*  
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S.No	REGISTER NUMBER	NAME OF THE STUDENT	30.08.2020	01.09.2020	02.09.2020	03.09.2020	04.09.2020
			4-6.00pm	4-7.00pm	4-7.00pm	4-7.00pm	4-5.00pm
1	710418114001	Abinesh G	Abinesh G	Abinesh G	Abinesh G	Abinesh G	Abinesh G
2	710418114002	Ajay B	Ajay B	Ajay B	Ajay B	Ajay B	Ajay B
3	710418114003	Alaguraja T	Alaguraja T	Alaguraja T	Alaguraja T	Alaguraja T	Alaguraja T
4	710418114004	Alan Jose	Alan Jose	Alan Jose	Alan Jose	Alan Jose	Alan Jose
5	710418114005	Anbarasan U	Anbarasan U	Anbarasan U	Anbarasan U	Anbarasan U	Anbarasan U
6	710418114007	Anu Baby M	Anu Baby M	Anu Baby M	AB	Anu Baby M	Anu Baby M
7	710418114011	Ashwin Kumar V	Ashwin Kumar V	Ashwin Kumar V	AK	Ashwin Kumar V	Ashwin Kumar V
8	710418114012	Barath C N	Barath C N	Barath C N	AB	Barath C N	Barath C N
9	710418114013	Bharathi S	Bharathi S	Bharathi S	BS	Bharathi S	Bharathi S
10	710418114014	Celus Flacher M	AB	Celus Flacher M	Celus Flacher M	Celus Flacher M	Celus Flacher M
11	710418114015	Demitus Ajun D	Demitus Ajun D	Demitus Ajun D	AB	Demitus Ajun D	Demitus Ajun D
12	710418114017	Dishin A	Dishin A	Dishin A	AB	Dishin A	Dishin A
13	710418114021	Gowtham P	AB	Gowtham P	Gowtham P	Gowtham P	Gowtham P
14	710418114022	Guruprasath P	Guruprasath P	Guruprasath P	Guruprasath P	Guruprasath P	Guruprasath P
15	710418114024	Helen Jacob	Helen Jacob	Helen Jacob	Helen Jacob	Helen Jacob	Helen Jacob
16	710418114025	Jeevananthan M	Jeevananthan M	Jeevananthan M	AB	Jeevananthan M	Jeevananthan M
17	710418114026	Jeganathan P	Jeganathan P	Jeganathan P	Jeganathan P	Jeganathan P	Jeganathan P
18	710418114027	Joel Roy	Joel Roy	Joel Roy	Joel Roy	Joel Roy	AB
19	710418114028	Kamalesh M	Kamalesh M	Kamalesh M	AB	Kamalesh M	Kamalesh M
20	710418114029	Karna P	Karna P	Karna P	Karna P	Karna P	Karna P
21	710418114031	Karuppasamy K	Karuppasamy K	Karuppasamy K	Karuppasamy K	Karuppasamy K	Karuppasamy K
22	710418114032	Mathan B	Mathan B	AB	Mathan B	Mathan B	Mathan B
23	710418114034	Murugan V	Murugan V	Murugan V	Murugan V	Murugan V	Murugan V
24	710418114035	Muthu Kumar K	Muthu Kumar K	Muthu Kumar K	Muthu Kumar K	Muthu Kumar K	Muthu Kumar K
25	710418114036	Naga Raja M	Naga Raja M	Naga Raja M	Naga Raja M	Naga Raja M	Naga Raja M
26	710418114037	Naveen Raj B	AB	Naveen Raj B	Naveen Raj B	AB	Naveen Raj B
27	710418114038	Nilesh Roshan M	Nilesh Roshan M	AB	Nilesh Roshan M	Nilesh Roshan M	Nilesh Roshan M
28	710418114039	Nithecsh Kumar D	Nithecsh Kumar D	Nithecsh Kumar D	Nithecsh Kumar D	Nithecsh Kumar D	AB
29	710418114040	Nithyanantham T	Nithyanantham T	Nithyanantham T	Nithyanantham T	Nithyanantham T	Nithyanantham T
30	710418114041	Prabin John J	Prabin John J	Prabin John J	Prabin John J	Prabin John J	Prabin John J
31	710418114042	Pradeep R	Pradeep R	Pradeep R	Pradeep R	AB	Pradeep R
32	710418114044	Raja G	Raja G	Raja G	Raja G	Raja G	Raja G
33	710418114045	Ramakrishnan R	Ramakrishnan R	AB	Ramakrishnan R	Ramakrishnan R	Ramakrishnan R
34	710418114046	Ranjith Kumar R	Ranjith Kumar R	AB	Ranjith Kumar R	Ranjith Kumar R	Ranjith Kumar R
35	710418114047	Roshan Dass A	Roshan Dass A	Roshan Dass A	AB	Roshan Dass A	Roshan Dass A
36	710418114048	Sakthi Varman R	Sakthi Varman R	AB	Sakthi Varman R	Sakthi Varman R	Sakthi Varman R
37	710418114050	Santhosh Kumar S	Santhosh Kumar S	Santhosh Kumar S	Santhosh Kumar S	Santhosh Kumar S	Santhosh Kumar S

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38	710418114051	Saran Kumar M	dk	dk	dk	dk	dk
39	710418114053	Seenivasan K	Se	Se	Se	Se	Se
40	710418114054	Shane Johnson B	Sh	Sh	Sh	Sh	Sh
41	710418114056	Sudhakar M	su	su	su	su	AB
42	710418114057	Sugadheep R	su	su	su	su	su
43	710418114058	Sundar Singh K	su	su	su	su	su
44	710418114060	Tamiliniyan M	su	su	su	su	su
45	710418114061	Tharunesh N	su	su	su	su	su
46	710418114062	Udhayan C	su	su	su	su	su
47	710418114064	Vasanth M	su	su	su	su	su
48	710418114065	Vasanthakumar M	su	su	su	su	su
49	710418114066	Venkatesh K	su	su	su	su	su
50	710418114067	Vijay S	su	su	su	su	AB
51	710418114068	Vinoth C	su	su	su	AB	su
52	710418114301	Ajith Kumar S	su	su	su	su	su
53	710418114302	Hemanth M	su	su	su	su	su
54	710418114303	Krishnakumar S	su	su	AB	su	su
55	710418114304	Mallikaarjunan S	su	su	su	su	su
56	710418114305	Sanjay G	su	su	su	su	su
57	710418114701	Mahendran E	su	AB	su	su	su

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

1. In AutoCAD 2D Modelling, which axis is not accessible for drafting?  
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	7
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	8
16	710418114025	Jeevananthan M	8
17	710418114026	Jeganathan P	9
18	710418114027	Joel Roy	7
19	710418114028	Kamalesh M	8
20	710418114029	Karna P	8
21	710418114031	Karuppasamy K	9
22	710418114032	Mathan B	9
23	710418114034	Murugan V	9

  
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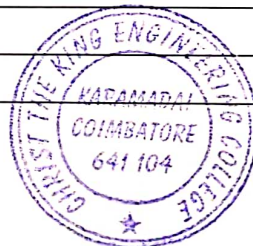
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24	710418114035	Muthu Kumar K	8
25	710418114036	Naga Raja M	9
26	710418114037	Naveen Raj B	9
27	710418114038	Nilesh Roshan M	9
28	710418114039	Nitheesh Kumar D	9
29	710418114040	Nithyanantham T	8
30	710418114041	Prabin John J	8
31	710418114042	Pradeep 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	9
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
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45	710418114061	Tharunesh N	8
46	710418114062	Udhayan C	8
47	710418114054	Vasanth M	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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## DEPARTMENT OF MECHANICAL ENGINEERING

### VAME2003 - FUNDAMENTAL PROGRAM ON HVAC DESIGNING

#### MULTIPLE CHOICE QUESTION

Name : Alan Jose.  
Register No. : 710418114004  
Year / Sem : III | V  
Academic Year : 2020 - 21

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

- 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:

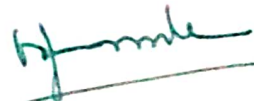
- A) 0,0
- B) 1,0
- C) 0,1
- D) 1,1

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

  
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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

X

7. What does the term "C.O.P." stand for in refrigeration?

- A) Cooling for Performance
- B) Coefficient of Performance
- C) Capacity of Performance
- 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

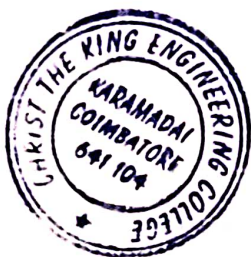
✓

9/10

*Dr. M. Jeeyakumar*

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HOD / MECH





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## DEPARTMENT OF MECHANICAL ENGINEERING

### STUDENT FEEDBACK FORM

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

Name of the student: *Ajay. B*

Register Number: *710418114002*

Year / Semester: *III/V*

Batch: *2018-2022*

Course Coordinator: *Mr. Perumalsamy. V*

Academic Year: *2020-2021*

Sl.No.	Criteria	Rating				
		Excellent	Good	Average	Satisfactory	Poor
1.	Course content		✓			
2.	Individual attention	✓				
3.	Level of the course			✓		
4.	Regularity and knowledge of faculty		✓			
5.	Coverage of syllabus	✓				
6.	Interaction				✓	
7.	Outcome		✓			
	Total	10	12	3	2	
	Remarks	<i>good</i>				

EXCELLENT-5

GOOD-4

AVERAGE-3

SATISFACTORY-2

POOR-1

  
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Signature of the student



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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.

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





# CHRIST THE KING ENGINEERING COLLEGE

Karamadai, Coimbatore - 641104

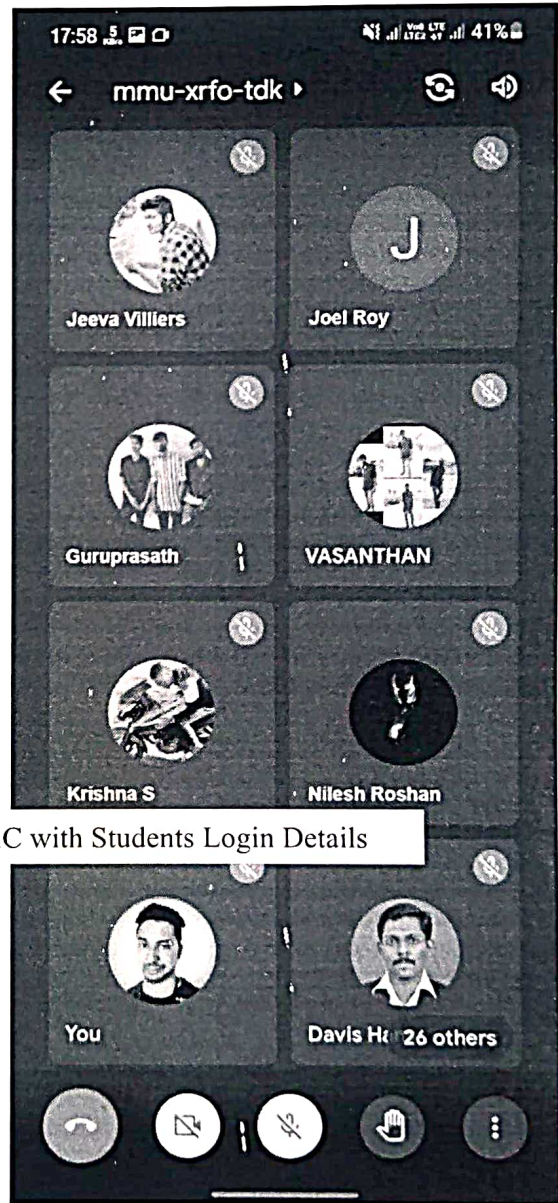
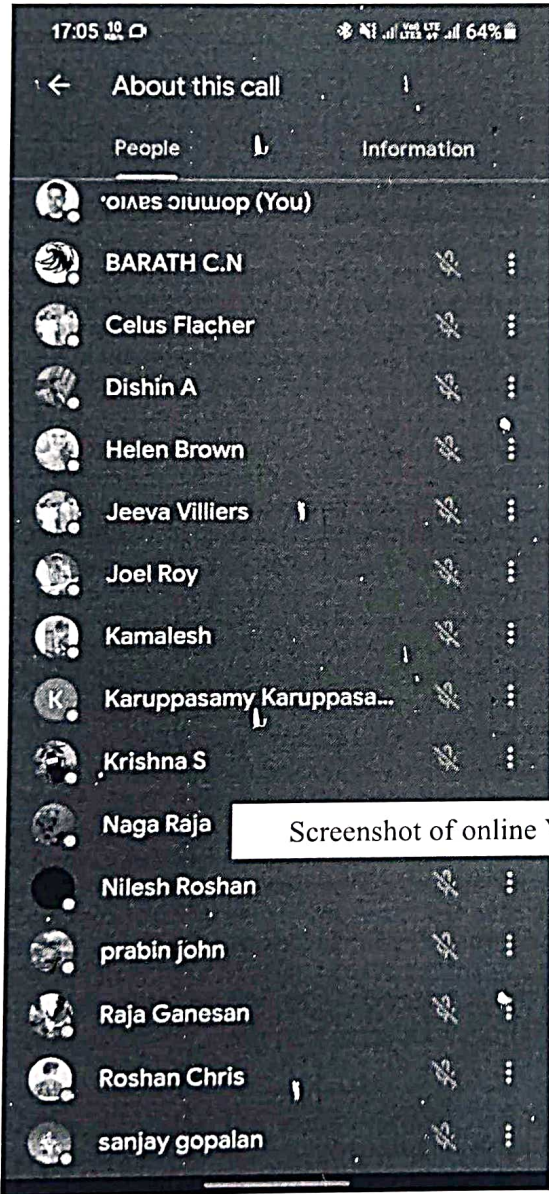
(Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai)

Ph: +91 91500 76729

Email: principal@ckec.ac.in

Web: www.ckec.ac.in

## PHOTOS



Screenshot of online VAC with Students Login Details

*Handwritten signature*

**Dr. M. JEYAKUMAR, M.E., Ph.D.**  
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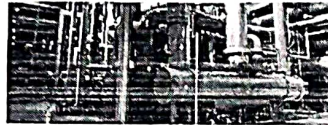
Web: www.ckec.ac.in

## CERTIFICATE



**CHRIST THE KING ENGINEERING COLLEGE**

KARAMADAI COIMBATORE-641104  
AGHORA DESIGNING ACADEMY  
COIMBATORE



## CERTIFICATE OF TRAINING

Reg. No. 710418114 012

This is to certify that

.....BARATH.....

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.

Head of the Department

Department of Mechanical Engineering

Principal

Technical Director

Aghora Design Academy



**CHRIST THE KING ENGINEERING COLLEGE**

KARAMADAI COIMBATORE-641104  
AGHORA DESIGNING ACADEMY  
COIMBATORE



## CERTIFICATE OF TRAINING

Reg. No. 710418114 302

This is to certify that

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