



**(An Autonomous Institution** - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

**S.P.G.Chidambara Nadar - C.Nagammal Campus**

S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near **VIRUDHUNAGAR**).

## **DEPARTMENT OF MECHCHANICAL ENGINEERING**

**Value Added Course**

**on**

**HEATING VENTILATION &**

**AIR CONDITIONING**

**Conducted: Excel MEP, Bangalore**

**Year / Sem Batch: III / VI / 2019 – 23**

**Course duration :28.03.2022 to 30.03.2022**

**Course Duration: 24 Hrs**

# KAMARAJ

COLLEGE OF ENGINEERING & TECHNOLOGY

S.P.G.Chidambara Nadar - C. Nagammal Campus,  
S.P.G.C. Nagar, K. Vellakulam - 625 701, Near VIRUDHUNAGAR, Madurai District.

Accredited by NAAC with 'A' Grade



Submitted to the SECRETARY for approval through the PRINCIPAL

Book No.

MECH

SL No.

96

Date 24/03/2022

VALUE ADDED COURSE | III YEAR - STUDENTS | HVAC COURSE

We are planned to organize a value added course of  
by One world Inc. - Air conditioning & MEP Company.

Name of the Course: HVAC - Design

No of Student: 62 nos

Course from: 11-04-2022 to 13-04-2022 [tentative]

Training Cost: 1,20,000 + GST with trainers accommodation etc.

I kindly request you to permit the programme & sanction the

amount of Rs 1,41,600/-

Signature of Faculty

HOD

PRINCIPAL

## OFFICE USE

1) Budget allotted

2) Amount committed / Spent so far

3) Balance available

Value Added

Course Expenses

OM

Treasurer

Secretary

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**From:** Madhan.N.R  
**Sent:** 26 March 2022 13:23  
**To:** MECH; SRI RAMA PRIYA.R.P  
**Cc:** PRITHIVIRAJ M; HODMECH  
**Subject:** Venue | Value Added Course | III year

**Dear sir,**

Department of Mechanical Engineering is organizing **Value Added Course** for III Year Mechanical Engineering (62 Nos) Students from **28.03.2022** to **30.03.2022**. Resource person from Excel MEP, Bangalore is going to handle this course.

Herewith I have shared you the venue details for this course.

**Venue:**

Date	Venue Details	
	FN	AN
28.03.2022	CSE Conference Hall – I	
29.03.2022	Mechanical CAD Lab	
	Civil CAD Lab	
30.03.2022	HoP Lab	CSE Conference Hall – I
	Centre for Prototype	

With Regards,

**Madhan N R,**

Assistant Professor,

Mechanical Department,

**KAMARAJ**

College of Engg and Tech,

Virudhunagar.

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**From:** Zafar Khan  
**Sent:** 23 March 2022 11:07  
**To:** Madhan.N.R  
**Cc:** akshayacreatech@gmail.com  
**Subject:** Credit Courses for Engineering Students.

Dear Mr.Madhan, We thank you for getting in touch with us for our Courses.

We would like to introduce ourselves as Industry professionals working in the field of MEP ( Mechanical Electrical & Plumbing ) & have been associated in this Industry from the past 22 years and have been imparting training to Engineers & Diploma holders from the past 15 years. We have been associated with several professional Organizations in our field. We have successfully trained more than 3000 students from various Domains, Industry Verticals & Geographic locations in the field of MEP.

As discussed we would like to Offer three Credit Courses for your Students.

**1) HVAC ( Heating Ventilation & Air Conditioning ) Design  
with Introduction to other Building Services - 18 Hours**

Introduction to HVAC, Psychrometrics, Heat Load Calculations, Practical Classes to be conducted on Designing Software for Heat load, Duct Design & Piping Design - Practical Hands On Demonstration of Installation of Split AC, including Gas Charging, Copper Piping & Filter Cleaning.

The above courses would be conducted at your premises after which a test would be conducted and based on its completion, a Course Completion certificate would be issued to all the participants.

The Cost of each credit course would be 1,20,000 /- Plus Taxes. Please do get in touch for any Clarifications required.

Thanks & Regards,

**Zafar Ulla Khan / Mr.Lakshmi Narasimhan**

**One World Inc. - Air Conditioning & MEP Company**  
**Excel MEP Academy**  
**Akshaya Createch - Electrical & Solar Design & Build Company**

5, 1st Cross, Lal Bagh Road,  
Bangalore -560027  
+91-9886001720  
+91 80 22272102  
[www.excelmep.com](http://www.excelmep.com)

Thanks & Regards,

**Zafar Ulla Khan**

**One World Inc. - Air Conditioning & MEP Company**

**Department of Mechanical Engineering**  
**Three Member Committee - Minutes of Meeting for**  
**Value Added Course Selection**

Agenda		Value Added Course Selection Meeting
Date	:	09/02/2022
Time	:	01.00 PM
Venue	:	HoD/Mech Cabin “E- Block”
Members Present	:	<p><b>Three Member Committee Members</b></p> <ol style="list-style-type: none"> <li>1. Dr. S.S. Saravana kumar, ASP &amp; HoD/Mech</li> <li>2. Dr. S. Senthil, Prof. &amp; Principal</li> <li>3. Er. N.R. Madhan, AP/Mech</li> </ol> <p><b>UG Coordinator</b></p> <ol style="list-style-type: none"> <li>4. Dr. S. Thanga Kasi Rajan, AP/Mech</li> </ol> <p><b>Chairperson</b></p> <ol style="list-style-type: none"> <li>5. Dr. M. Prithiviraj, AP/Mech</li> </ol> <p><b>Domain Experts</b></p> <ol style="list-style-type: none"> <li>6. Dr. B. Prabhu, AP/Mech</li> <li>7. Mr.B. Balavairavan, AP/Mech</li> <li>8. Dr. S. Thanga Kasi Rajan, AP/Mech</li> </ol> <p><b>Class representative (2020 – 2024 Batch)</b></p> <ol style="list-style-type: none"> <li>9. Mr. RAHUL.V (19UMEC005), III<sup>nd</sup> Year/ Student</li> <li>10. Mr. YUVARAJ.K (19UMEC017), III<sup>nd</sup> Year/ Student</li> <li>11. Mr. THOMAS LIVIN DANIYAL A (19UMEC033), III<sup>nd</sup> Year/ Student</li> </ol>
Minutes of the Meeting	:	<ol style="list-style-type: none"> <li>1. It is optional to complete a Value-Added Course for enhancing Industrial requirement. In this regard a three-member committee has been formed and a meeting is organized to select the course for registration.</li> </ol> <ul style="list-style-type: none"> <li>• Meeting started by 01.00PM. Dr. S.S. Saravana Kumar, Associate Professor &amp; Head of the Department, welcome the gathering.</li> <li>• Dr. M. Prithiviraj, Assistant Professor &amp; Chairperson of 2019-2023 batch has proposed various courses offered by             <ul style="list-style-type: none"> <li>○ Siemens Centre of Excellence in Manufacturing, National Institute of Technology, Tiruchirappalli and</li> <li>○ HVAC by Excel MEP, Bangalore.</li> </ul> </li> </ul>

- Subject experts are suggested to offer Air Conditioning (Thermal) related courses.
- Dr. S. Thanga Kasi Rajan, Assistant Professor has advised to maintain SOP for value added course.
- Based on the suggestion given by the Subject Experts & 2019-2023 Batch Chairperson, 3 committee members for Value added course "HVAC" course offered by Excel MEP, Bangalore, agree to take this VI semester for 2019-2023 Batch students

**Justification for the Course selection:**

The justification for the course selection were as follows

- This Course will be useful for her project work
- It is a 24-hour course
- This Course is useful to beat Industrial Needs

*S.S. Saravana Kumar*  
**Three Member Committee Members**  
 Dr. S.S. Saravana Kumar, ASI & HoD/Mech  
 Er. N.R. Madhan, AP/Mech

*S. Thanga Kasi Rajan*  
**UG Coordinator**  
 Dr. S. Thanga Kasi Rajan, AP/Mech

*M. Prithiviraj*  
**Chairperson**  
 Dr. M. Prithiviraj, AP/Mech

*B. Prabhu*  
*B. Balavairavan*  
*S. Thanga Kasi Rajan*  
**Domain Experts**  
 Er. B. Prabhu, AP/Mech  
 Mr. B. Balavairavan, AP/Mech  
 Dr. S. Thanga Kasi Rajan, AP/Mech

*S.S. Saravana Kumar*  
**HoD/Mech**

*A.S. Sar*  
*27/7/22*  
**Dean Academics**

**DEPARTMENT OF MECHCHANICAL ENGINEERING**

Value Added Course on HVAC

Conducted : EXCEL MEP, Bangalore

Year / Sem : III / IV

Course duration : 28.03.2022 to 30.03.2022

Batch : 2019 - 23

Duration of the Course : 24 Hrs

**Approval of Programme Assessment Committee**

Board of Study Meeting: IV

Mode: online (MS-Teams)

Date & Timing: 19.03.2022 & 3.00PM

Page No: 17 of 18

**Dr. S. Thanga Kasi Rajan presented the list of value-added courses. The following discussions were made.**

S.No.	Course Title	Total hours	Credits
1.	Programming on Computer Numerical Control		2
2.	Advanced Pro-E		2
3.	Machine Learning		2
4.	Block chain		2
5	Heating, Ventilation and Air Conditioning		2

The members of BoS recommend and proceed the same.

*N.R. Madhavan*

VAC Coordinators

*S.S. Suresh*

HoD/MECH



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### **Department of Mechanical Engineering**

**Value Added Course : HVAC** **Year : III-Mech**  
**Date : from 28.03.2022 to 30.03.2022** **Sem : VI**  
**Course conducted by : Excel MEP Training Academy, Bangalore**

### Summary Report

#### **Day 1 | 28.03.2022**

Course started by formal Inauguration function at 9.30am. Guest Er. Zafer Ulla Khan delivered his note on the topic of “Fundamental of Heating Ventilation and Air Conditioning (HVAC)”. During the session, students interact with Speakers. At the end of the 3 sessions, students are received the course materials by the speakers.

#### **Day 2 | 29.03.2022**

Morning session, speaker delivered on the topics of “refrigeration cycle includes compressor, condenser, evaporator & expansion cycle”.

Afternoon session, students derived “heat load calculation for different condition” using Ms-Excel and AutoCAD.

#### **Day 3 | 30.03.2022**

Forenoon session, students explored the heat load data book. They are calculated heat load for different condition. Student are explored various duck and its purpose.

Afternoon session, speakers practically demonstrated disassembly and assembly of Split AC. Students explored various part and its importance of Split AC.

At the end of the day, formal valedictory ceremony by Dr.S.Senthil , Principal & Dr.S.S.Saravanakumar, HoD cum ASP/Mechanical Department.



# Photo Proof

## Day 1 | 28.03.2022



## Day 2 | 29.03.2022



## Day 3 | 30.03.2022



*N.R. Madhan*  
Faculty In-charges

*S.S. Suresh*  
HoD/Mech



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# Certificate

This is to certify that Mr. **AAKASH KANNAN.U** bearing Reg. No **920419114001** has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022



Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
Regd. No : BSG-4-00469-2017-18  
# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

  
Director





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# Certificate

This is to certify that Mr. ABISHEK KUMAR.S bearing Reg. No 920419114002 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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*Zafar Danish*  
Director



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# Certificate

This is to certify that Mr. **AJAY KUMAR.R** bearing Reg. No **920419114003** has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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# Certificate

This is to certify that Mr. ARAVINDAN.C bearing Reg. No 920419114004 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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*Zafar Hamid*  
Director



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# Certificate

This is to certify that Mr. ARUNKUMAR.V bearing Reg. No 920419114005 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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*Lafae Dammal*  
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# Certificate

This is to certify that Mr. ASWIN.K bearing Reg. No 920419114006 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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# Certificate

This is to certify that Mr. ASWIN SUNDAR.R bearing Reg. No 920419114007 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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# Certificate

This is to certify that Mr. **BALASUBRAMANIYAN.R** bearing Reg. No **920419114008** has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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Bangalore - 560 027.

*Zafar Hamud*  
Director



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# Certificate

This is to certify that Mr. **BHUVANESH PANDIAN.P** bearing Reg. No **920419114009** has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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# Certificate

This is to certify that Mr. DEEPAN KAARTHIK.T bearing Reg. No 920419114010 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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*Zelar Daniel*  
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# Certificate

This is to certify that Mr. **GNANAPRAKASAM.G** bearing Reg. No **920419114011** has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022



Date: 30<sup>th</sup> Mar 2022

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# Certificate

This is to certify that Mr. GOBINATH.M bearing Reg. No 920419114012 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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*Zafar Danish*  
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This is to certify that Mr. GOVARTHANAN.T bearing Reg. No 920419114013 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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# Certificate

This is to certify that Mr. JAGANATHAN.S bearing Reg. No 920419114014 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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*Zafar Danish*  
Director



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# Certificate

This is to certify that Mr. JEEVABALAN.J bearing Reg. No 920419114015 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022



Date: 30<sup>th</sup> Mar 2022

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*Zafar Dawood*  
Director







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# Certificate

This is to certify that Mr. JOYSON RALPH JEBADURAI.V bearing Reg. No 920419114016 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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This is to certify that Mr. KALIDASAN.M bearing Reg. No 920419114017 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022



Date: 30<sup>th</sup> Mar 2022

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# Certificate

This is to certify that Mr. KARTHIK.S bearing Reg. No 920419114018 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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*Zafar Danish*  
Director



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# Certificate

This is to certify that Mr. **KUMARESH.R** bearing Reg. No **920419114019** has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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Bangalore - 560 027.

*Zafar Danish*  
Director





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# Certificate

This is to certify that Mr.                     **LOKESH.S**                     bearing Reg. No           **920419114020**           has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022



Date: 30<sup>th</sup> Mar 2022

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*Zafar Danish*  
Director





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# Certificate

This is to certify that Mr. MADHAVAN.G bearing Reg. No 920419114021 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

*Lal Bahadur*  
Director





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# Certificate

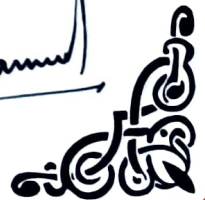
This is to certify that Mr. MADHAVAN.P bearing Reg. No 920419114022 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022



Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
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Bangalore - 560 027.

*Zafar Danish*  
Director





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# Certificate

This is to certify that Mr.                     **MANOJ.D L**                     bearing Reg. No           **920419114023**           has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
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*Zafar Danish*  
Director





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# Certificate

This is to certify that Mr. MUTHUVEERASALAPANDIAN.M bearing Reg. No 920419114024 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
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# Certificate

This is to certify that Mr. NARENDRAN.K bearing Reg. No 920419114025 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
Regd. No : BSG-4-00469-2017-18  
# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

*Zafar Danish*  
Director



**KAMARAJ**  
COLLEGE OF ENGINEERING & TECHNOLOGY

# Certificate

This is to certify that Mr. NAVANEETHA KRISHNAN.N bearing Reg. No 920419114026 has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

  
Director



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# Certificate

This is to certify that Mr. NAVEEN.D bearing Reg. No 920419114027 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
Regd. No : BSG-4-00469-2017-18  
# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

*Zafar Dawood*  
Director



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# Certificate

This is to certify that Mr. **PRAVEEN RAJ.R** bearing Reg. No **920419114028** has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022



Date: 30<sup>th</sup> Mar 2022

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# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

  
Director





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# Certificate

This is to certify that Mr. RAHUL.V bearing Reg. No 920419114029 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
Regd. No : BSG-4-00469-2017-18  
# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

  
Director





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# Certificate

This is to certify that Mr. RAJESH KANNAN.R bearing Reg. No 920419114030 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
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# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

*Zafar Danish*  
Director



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# Certificate

This is to certify that Mr. **RAMPRASATH.C** bearing Reg. No **920419114031** has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
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Director





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# Certificate

This is to certify that Mr. RATHINA SIVA MALAYAPPAN.G bearing Reg. No 920419114032 has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022



Date: 30<sup>th</sup> Mar 2022

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Bangalore - 560 027.

  
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# Certificate

This is to certify that Mr. SATHEESH KUMAR.K bearing Reg. No 920419114033 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
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Bangalore - 560 027.

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Director



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# Certificate

This is to certify that Mr. SIVA ANANTH.E bearing Reg. No 920419114034 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022



Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
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Bangalore - 560 027.

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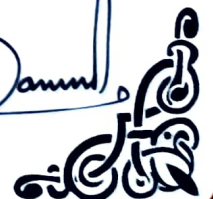
# Certificate

This is to certify that Mr. SIVABARATH.K bearing Reg. No 920419114035 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

*Zafar Danish*  
Director





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# Certificate

This is to certify that Mr. SUBHASH RAAJ.K bearing Reg. No 920419114036 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

*Zafar Danish*  
Director



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# Certificate

This is to certify that Mr. THOMAS LIVIN DANIYAL.A bearing Reg. No 920419114038 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
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Bangalore - 560 027.

*Zafar Dawood*  
Director



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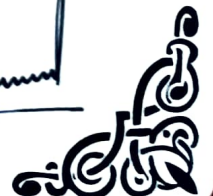
# Certificate

This is to certify that Mr. VENKATESHWARA.R bearing Reg. No 920419114039 has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
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Bangalore - 560 027.

*Zafar Danish*  
Director





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# Certificate

This is to certify that Mr. VIGNESH.G bearing Reg. No 920419114040 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
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Bangalore - 560 027.

*Zafar Danish*  
Director





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# Certificate

This is to certify that Mr. VIGNESH.K B bearing Reg. No 920419114041 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
Regd. No : BSG-4-00469-2017-18  
# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

*Zafar Danish*  
Director



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COLLEGE OF ENGINEERING & TECHNOLOGY

# Certificate

This is to certify that Mr. VIGNESH.NA bearing Reg. No 920419114042 has successfully completed the value added course, conducted in the field of "HVAC Design Concepts" from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
Regd. No : BSG-4-00469-2017-18  
# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

*Zafar Danish*  
Director



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COLLEGE OF ENGINEERING & TECHNOLOGY

# Certificate

This is to certify that Mr. VIMALA bearing Reg. No 920419114043 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
Regd. No : BSG-4-00469-2017-18  
# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

  
Director





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# Certificate

This is to certify that Mr. YUVARAJ.K bearing Reg. No 920419114044 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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#5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

*Zafar Danish*  
Director





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COLLEGE OF ENGINEERING & TECHNOLOGY

# Certificate

This is to certify that Mr. ARUNKUMAR.P bearing Reg. No 920419114301 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
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# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

*Zafar Dammal*  
Director



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COLLEGE OF ENGINEERING & TECHNOLOGY

# Certificate

This is to certify that Mr. **BALA SUDHARSAN.N** bearing Reg. No **920419114302** has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
Regd. No : BSG-4-00469-2017-18  
# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

  
Director





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# Certificate

This is to certify that Mr. **DHARUN.N** bearing Reg. No **920419114303** has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
Regd. No : BSG-4-00469-2017-18  
# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

*Zafar Danish*  
Director



**KAMARAJ**  
COLLEGE OF ENGINEERING & TECHNOLOGY

# Certificate

This is to certify that Mr. **GANESH KARTHIK.S** bearing Reg. No **920419114304** has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
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# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

*Zafar Danish*  
Director







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# Certificate

This is to certify that Mr. **HARIHARAN.R** bearing Reg. No **920419114305** has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
Regd. No : BSG-4-00469-2017-18  
# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

  
Director



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# Certificate

This is to certify that Mr. **MANIKANDA PRABHU.K** bearing Reg. No **920419114306** has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022



Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
Regd. No : BSG-4-00469-2017-18  
# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

*Zafar Danish*  
Director





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# Certificate

This is to certify that Mr. MICKAEL RAJ.P bearing Reg. No 920419114307 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
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# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

  
Director



**KAMARAJ**  
COLLEGE OF ENGINEERING & TECHNOLOGY

# Certificate

This is to certify that Mr. MOHAMEDIRSHATH.A bearing Reg. No 920419114308 has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
Regd. No : BSG-4-00469-2017-18  
# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

  
Director





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# Certificate

This is to certify that Mr. NAGARAJ.S bearing Reg. No 920419114309 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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Regd. No : BSG-4-00469-2017-18  
# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

*Zafar Danish*  
Director



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# Certificate

This is to certify that Mr. PANDI KAMAL KRISHNA.A bearing Reg. No 920419114310 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
Regd. No : BSG-4-00469-2017-18  
# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

*Zafar Hamid*  
Director



**KAMARAJ**  
COLLEGE OF ENGINEERING & TECHNOLOGY

# Certificate

This is to certify that Mr. PARTHIBAN.P bearing Reg. No 920419114311 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
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# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

*Zafar Danish*  
Director



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COLLEGE OF ENGINEERING & TECHNOLOGY

# Certificate

This is to certify that Mr. PRABAKARAN.A bearing Reg. No 920419114312 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
Regd. No : BSG-4-00469-2017-18  
# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

*Zafar Danish*  
Director





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COLLEGE OF ENGINEERING & TECHNOLOGY

# Certificate

This is to certify that Mr. RAGUL.S bearing Reg. No 920419114313 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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Regd. No : BSG-4-00469-2017-18  
# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

*Zafar Danish*  
Director





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# Certificate

This is to certify that Mr. **RATHISH.S** bearing Reg. No **920419114314** has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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Regd. No : BSG-4-00469-2017-18  
# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

  
Director





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# Certificate

This is to certify that Mr. **SENTHIL KUMAR.M** bearing Reg. No **920419114315** has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022



Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
Regd. No : BSG-4-00469-2017-18  
# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

  
Director





**KAMARAJ**  
COLLEGE OF ENGINEERING & TECHNOLOGY

# Certificate

This is to certify that Mr. SIVAPACKIA.R bearing Reg. No 920419114316 has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

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Bangalore - 560 027.

*Zafar Dammal*  
Director





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# Certificate

This is to certify that Mr. **SIVA SUBRAMANIAN.S** bearing Reg. No **920419114317** has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
Regd. No : BSG-4-00469-2017-18  
# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

*Zafar Dawood*  
Director



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# Certificate

This is to certify that Mr. VIJAYAKUMAR.S bearing Reg. No 920419114318 has successfully completed the value added course, conducted in the field of “HVAC Design Concepts” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
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# 5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

  
Director



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# Certificate

This is to certify that Mr. **VINISH KUMAR J** bearing Reg. No **920419114319** has successfully completed the value added course, conducted in the field of “**HVAC Design Concepts**” from our training division during the period Mar 28<sup>th</sup> to Mar 30<sup>th</sup> 2022

Date: 30<sup>th</sup> Mar 2022

**EXCEL MEP ACADEMY**  
Regd. No : BSG-4-00469-2017-18  
5, 1st Cross, Lal Bagh Road  
Bangalore - 560 027.

*Zafar Danish*  
Director

# HVAC Test

Value Added Course : HVAC

Date : from 28.03.2022 to 30.03.2022

Course conducted by : Excel MEP Training Academy, Bangalore

Year : III-Mech

Sem : VI

1. Student Name

---

2. Student Roll No

---

3. 1. Heat transfer from one part of solid substance to another part within itself or another solid substance placed in physical contact is known as 1 point

*Mark only one oval.*

- a) Conduction
- b) Retraction
- c) Convection
- d) Radiation

4. 2. Heat transfer within a fluid itself, maybe liquid/gases and is carried out by transfer of one fraction of fluid to another portion is known as 1 point

*Mark only one oval.*

- a) Conduction
- b) Retraction
- c) Convection
- d) Radiation



5. 3.To change Fahrenheit to Celsius, which formula is used?

1 point

*Mark only one oval.*

- a)  $C = (F + 32) \div 1.8$
- b)  $C = (F - 32) \times 1.8$
- c)  $C = (F - 32) \div 1.8$
- d)  $C = (F - 32) + 1.8$

6. 4. Latent heat is measured in \_\_\_\_\_.

1 point

*Mark only one oval.*

- a) Degrees Celsius, Fahrenheit and Kelvin
- b) International System of Units
- c) British Thermal Units
- d) Board of Trade Unit

7. 5. In Fahrenheit, the boiling point of water is \_\_\_\_\_.

1 point

*Mark only one oval.*

- a) 100 degrees
- b) 112 degrees
- c) 221 degrees
- d) 212 degrees

8. 6. The temperature of the air when it is fully saturated and the moisture condenses on a surface is known as

1 point

*Mark only one oval.*

- a) Dew point temperature
- b) Dry bulb temperature
- c) Wet bulb temperature
- d) Supply air temperature

9. 7. The ratio of the actual moisture present in the air to the maximum moisture the air can hold is known as 1 point

*Mark only one oval.*

- a) Relative humidity
- b) Humidity ratio
- c) Specific humidity
- d) Absolute humidity

10. 8. Some of the air flowing through the coil impinges on the water tubes or the fins and is cooled to the ADP, the percentage of air that passes through the coil unchanged is called 1 point

*Mark only one oval.*

- a) U-Factor
- b) Bypass Factor
- c) Thermal Resistance
- d) ESHF

11. 9. The conditioned air being supplied from the air conditioner outlet and is treated & contains all the desired qualities as provided by the air conditioning system is known as 1 point

*Mark only one oval.*

- a) Supply Air
- b) Return Air
- c) Fresh Air
- d) Exhaust Air

12. 10. The equipment which pumps the designed quantity of dehumidified air to respective areas by means of ducting is known as 1 point

*Mark only one oval.*

- a) High wall A/C
- b) Cassette A/C
- c) Air Handling Unit
- d) Chiller

13. 11. Which of these are not a part of Air-Cooled chiller system? 2 points

*Mark only one oval.*

- a) Compressor
- b) Condenser
- c) Evaporator
- d) Cooling tower

14. 12. The temperature and relative humidity of air to satisfy human comfort conditions are 2 points

*Mark only one oval.*

- a) 30 Deg C and 60%
- b) 13 Deg C and 40%
- c) 24 Deg C and 50%
- d) 40 Deg C and 70%

15. 13. The equipment in which heat transfer takes place between the super-heated refrigerant and the cooling medium and the refrigerant is cooled is called 2 points

*Mark only one oval.*

- a) Condenser
- b) Compressor
- c) Evaporator
- d) Expansion valve

16. 14. The Given image refers to 2 points

*Mark only one oval.*

- a) High wall A/C
- b) Window A/C
- c) Cassette A/C
- d) Air Handling unit

image for question no 14



17. 15. A refrigeration ton is approximately equivalent to

2 points

*Mark only one oval.*

- a) 9,500 Btu/Hr
  - b) 12,000 Btu/Hr
  - c) 11,000 Btu/Hr
  - d) 13,500 Btu/Hr
- 

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# KAMARAJ

COLLEGE OF ENGINEERING & TECHNOLOGY

(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

S.P.G. Chidambaram Road - C.Nagamal Campus  
S.P.G.C. Nagar, K. Velukkulam - 625 701 (Near VIRUDHUNAGAR).  
Value Added Course on "HVAC"

Department : MECHANICAL ENGINEERING      Year : 3      Semester : 6

S.No	Rollno	Student Name	28.07.2022	29.07.2022	30.07.2022
1	19UMEC001	NARENDRAN K	K.N.R.	K.N.R.	K.N.R.
2	19UMEC002	JOYSON RALPH JEBADURAI.V	V.J.R.	V.J.R.	V.J.R.
3	19UMEC003	VIMALA	V.V.	V.V.	V.V.
4	19UMEC004	BALASUBRAMANIAN.R	R.B.	R.B.	R.B.
5	19UMEC005	RAHUL.V	R.V.	R.V.	R.V.
6	19UMEC006	RAJESH KANNAN.R	R.K.	R.K.	R.K.
7	19UMEC007	LOKESH.S	S.L.	S.L.	S.L.
8	19UMEC008	ASWIN.K	A.K.	A.K.	A.K.
9	19UMEC009	BHUVANESH PANDIAN.P	P.P.	P.P.	P.P.
10	19UMEC010	KARTHIK.S	S.K.	S.K.	S.K.
11	19UMEC011	GOBINATH.M	G.M.	G.M.	G.M.
12	19UMEC012	MUTHUVEERASALAPANDIAN.M	M.M.	M.M.	M.M.
13	19UMEC013	NAVANEETHA KRISHNAN.N	N.N.	N.N.	N.N.
14	19UMEC014	SUBHASH RAAJ.K	S.R.	S.R.	S.R.
15	19UMEC015	MANOJ.D L	M.D.	M.D.	M.D.
16	19UMEC016	JEEVABALAN.J	J.B.	J.B.	J.B.
17	19UMEC017	YUVARAJ.K	Y.K.	Y.K.	Y.K.
18	19UMEC019	MADHAVAN.G	G.M.	G.M.	G.M.
19	19UMEC020	RATHINA SIVA MALAYAPPAN.G	R.S.	R.S.	R.S.
20	19UMEC021	MADHAVAN.P	P.M.	P.M.	P.M.
21	19UMEC022	JAGANATHAN.S	J.S.	J.S.	J.S.
22	19UMEC023	ABISHEK KUMAR.S	A.S.	A.S.	A.S.
23	19UMEC024	SATHEESH KUMAR.K	K.S.	K.S.	K.S.
24	19UMEC025	AAKASH KANNAN.U	A.K.	A.K.	A.K.
25	19UMEC026	AJAY KUMAR.R	A.R.	A.R.	A.R.
26	19UMEC027	GOVARTHANAN.T	G.T.	G.T.	G.T.
27	19UMEC028	DEEPAN KAARTHIK.T	D.T.	D.T.	D.T.
28	19UMEC029	NAVEEN.D	N.D.	N.D.	N.D.
29	19UMEC030	ARUNKUMAR.V	A.V.	A.V.	A.V.
30	19UMEC031	KUMARESH.R	K.R.	K.R.	K.R.
31	19UMEC032	PRAVEEN RAJ.R	P.R.	P.R.	P.R.
32	19UMEC033	THOMAS LIVIN DANIELA	T.D.	T.D.	T.D.
33	19UMEC034	VIGNESH.NA	V.N.	V.N.	V.N.
34	19UMEC035	SIVA ANANTH.E	S.E.	S.E.	S.E.
35	19UMEC036	KALIDASAN.M	K.M.	K.M.	K.M.
36	19UMEC037	ARAVINDAN.C	A.C.	A.C.	A.C.
37	19UMEC038	GNANAPRAKASAM.G	G.G.	G.G.	G.G.
38	19UMEC039	ASWIN SUNDAR.R	A.S.	A.S.	A.S.
39	19UMEC040	VIGNESH.K B	V.K.	V.K.	V.K.
40	19UMEC041	VIGNESH.G	V.G.	V.G.	V.G.
41	19UMEC042	VENKATESHWARA.R	V.R.	V.R.	V.R.

42	19UMEC043	SIVABARATH.K	<i>S. Barath</i>	<i>S. Barath</i>	<i>S. Barath</i>
43	19UMEC044	RAMPRASATH.C	<i>C. Ram</i>	<i>C. Ram</i>	<i>C. Ram</i>
44	19UMEC045	GANESH KARTHIK.S	<i>S. Ganesh</i>	<i>S. Ganesh</i>	<i>S. Ganesh</i>
45	19UMEC046	PARTHIBAN.P	<i>P. Parthiban</i>	<i>P. Parthiban</i>	<i>P. Parthiban</i>
46	19UMEC047	MICKAEL RAJ.P	<i>P. Mickael</i>	<i>P. Mickael</i>	<i>P. Mickael</i>
47	19UMEC048	VINISH KUMAR.J	<i>J. Vinish</i>	<i>J. Vinish</i>	<i>J. Vinish</i>
48	19UMEC049	SIVAPACKIA.R	<i>R. Sivapackia</i>	<i>R. Sivapackia</i>	<i>R. Sivapackia</i>
49	19UMEC050	RAGUL.S	<i>S. Ragul</i>	<i>S. Ragul</i>	<i>S. Ragul</i>
50	19UMEC051	VJAYAKUMAR.S	<i>S. V. Jayakumar</i>	<i>S. V. Jayakumar</i>	<i>S. V. Jayakumar</i>
51	19UMEC052	SENTHIL KUMAR.M	<i>M. Senthil</i>	<i>M. Senthil</i>	<i>M. Senthil</i>
52	19UMEC053	ARUNKUMAR.P	<i>P. Arun</i>	<i>P. Arun</i>	<i>P. Arun</i>
53	19UMEC054	PANDI KAMAL KRISHNA.A	<i>A. P. Kamal</i>	<i>A. P. Kamal</i>	<i>A. P. Kamal</i>
54	19UMEC055	RATHISH.S	<i>S. Rathish</i>	<i>S. Rathish</i>	<i>S. Rathish</i>
55	19UMEC056	NAGARAJ.S	<i>S. Nagaraj</i>	<i>S. Nagaraj</i>	<i>S. Nagaraj</i>
56	19UMEC057	PRABAKARAN.A	<i>A. Prabakaran</i>	<i>A. Prabakaran</i>	<i>A. Prabakaran</i>
57	19UMEC058	DHARUN.N	<i>N. Dharon</i>	<i>N. Dharon</i>	<i>N. Dharon</i>
58	19UMEC059	BALA SUDHARSAN.N	<i>N. Balasudharsan</i>	<i>N. Balasudharsan</i>	<i>N. Balasudharsan</i>
59	19UMEC060	MOHAMEDIRSHATH.A	<i>A. Mohamedirshath</i>	<i>A. Mohamedirshath</i>	<i>A. Mohamedirshath</i>
60	19UMEC061	HARIHARAN.R	<i>R. Hariharan</i>	<i>R. Hariharan</i>	<i>R. Hariharan</i>
61	19UMEC062	MANIKANDA PRABHU.K	<i>K. Manikanda</i>	<i>K. Manikanda</i>	<i>K. Manikanda</i>
62	19UMEC063	SIVA SUBRAMANIAN.S	<i>S. Siva</i>	<i>S. Siva</i>	<i>S. Siva</i>

*[Signature]*  
Course Incharge

*[Signature]*  
HoD/Mech

# HVAC Test

Value Added Course : HVAC

Date : from 28.03.2022 to 30.03.2022

Course conducted by : Excel MEP Training Academy, Bangalore

Year : III-Mech

Sem : VI

Student Name

M.SENTHIL KUMAR

Student Roll No

19umec052

1. Heat transfer from one part of solid substance to another part within itself or another solid substance placed in physical contact is known as

1 point

- a) Conduction
- b) Retraction
- c) Convection
- d) Radiation



2. Heat transfer within a fluid itself, maybe liquid/gases and is carried out by transfer of one fraction of fluid to another portion is known as 1 point

- a) Conduction
- b) Retraction
- c) Convection
- d) Radiation

3. To change Fahrenheit to Celsius, which formula is used? 1 point

- a)  $C = (F + 32) \div 1.8$
- b)  $C = (F - 32) \times 1.8$
- c)  $C = (F - 32) \div 1.8$
- d)  $C = (F - 32) + 1.8$

4. Latent heat is measured in \_\_\_\_\_. 1 point

- a) Degrees Celsius, Fahrenheit and Kelvin
- b) International System of Units
- c) British Thermal Units
- d) Board of Trade Unit

5. In Fahrenheit, the boiling point of water is \_\_\_\_\_.

1 point

- a) 100 degrees
- b) 112 degrees
- c) 221 degrees
- d) 212 degrees

6. The temperature of the air when it is fully saturated and the moisture condenses on a surface is known as 1 point

- a) Dew point temperature
- b) Dry bulb temperature
- c) Wet bulb temperature
- d) Supply air temperature

7. The ratio of the actual moisture present in the air to the maximum moisture the air can hold is known as 1 point

- a) Relative humidity
- b) Humidity ratio
- c) Specific humidity
- d) Absolute humidity

8. Some of the air flowing through the coil impinges on the water tubes or the fins and is cooled to the ADP, the percentage of air that passes through the coil unchanged is called 1 point

- a) U-Factor
- b) Bypass Factor
- c) Thermal Resistance
- d) ESHF

9. The conditioned air being supplied from the air conditioner outlet and is treated & contains all the desired qualities as provided by the air conditioning system is known as 1 point

- a) Supply Air
- b) Return Air
- c) Fresh Air
- d) Exhaust Air

10. The equipment which pumps the designed quantity of dehumidified air to respective areas by means of ducting is known as 1 point

- a) High wall A/C
- b) Cassette A/C
- c) Air Handling Unit
- d) Chiller

11. Which of these are not a part of Air-Cooled chiller system?

2 points

- a) Compressor
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12. The temperature and relative humidity of air to satisfy human comfort conditions are

2 points

- a) 30 Deg C and 60%
- b) 13 Deg C and 40%
- c) 24 Deg C and 50%
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13. The equipment in which heat transfer takes place between the super-heated refrigerant and the cooling medium and the refrigerant is cooled is called

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- a) Condenser
- b) Compressor
- c) Evaporator
- d) Expansion valve

14. The Given image refers to

2 points

- a) High wall A/C
- b) Window A/C
- c) Cassette A/C
- d) Air Handling unit

image for question no 14



15. A refrigeration ton is approximately equivalent to

2 points

- a) 9,500 Btu/Hr
- b) 12,000 Btu/Hr
- c) 11,000 Btu/Hr
- d) 13,500 Btu/Hr

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# HVAC Test

Value Added Course : HVAC

Date : from 28.03.2022 to 30.03.2022

Course conducted by : Excel MEP Training Academy, Bangalore

Year : III-Mech

Sem : VI

Student Name

Rathish

Student Roll No

19umec055

1. Heat transfer from one part of solid substance to another part within itself or another solid substance placed in physical contact is known as

1 point

- a) Conduction
- b) Retraction
- c) Convection
- d) Radiation

2. Heat transfer within a fluid itself, maybe liquid/gases and is carried out by transfer of one fraction of fluid to another portion is known as 1 point

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- c) Thermal Resistance
- d) ESHF

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- c) Fresh Air
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- b) Cassette A/C
- c) Air Handling Unit
- d) Chiller

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- b) Condenser
- c) Evaporator
- d) Cooling tower

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- c) 24 Deg C and 50%
- d) 40 Deg C and 70%

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- b) Compressor
- c) Evaporator
- d) Expansion valve

14. The Given image refers to

2 points

- a) High wall A/C
- b) Window A/C
- c) Cassette A/C
- d) Air Handling unit

image for question no 14



15. A refrigeration ton is approximately equivalent to

2 points

- a) 9,500 Btu/Hr
- b) 12,000 Btu/Hr
- c) 11,000 Btu/Hr
- d) 13,500 Btu/Hr

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08-07-2022

**TO WHOM SO EVER IT MAY CONCERN**

Please find below Mark of students who had taken the test for the value added course “HVAC Design Concepts” .

Department : MECHANICAL ENGINEERING		Year : 3	Semester : 6
SL .No	Regno	Student Name	Mark
1	920419114001	AAKASH KANNAN.U	91
2	920419114002	ABISHEK KUMAR.S	93
3	920419114003	AJAY KUMAR.R	93
4	920419114004	ARAVINDAN.C	95
5	920419114005	ARUNKUMAR.V	92
6	920419114006	ASWIN.K	92
7	920419114007	ASWIN SUNDAR.R	91
8	920419114008	BALASUBRAMANIYAN.R	94
9	920419114009	BHUVANESH PANDIAN.P	95
10	920419114010	DEEPAN KAARTHIK.T	93
11	920419114011	GNANAPRAKASAM.G	93
12	920419114012	GOBINATH.M	95
13	920419114013	GOVARTHANAN.T	92
14	920419114014	JAGANATHAN.S	92
15	920419114015	JEEVABALAN.J	92
16	920419114016	JOYSON RALPH JEBADURAI.V	92
17	920419114017	KALIDASAN.M	93
18	920419114018	KARTHIK.S	94
19	920419114019	KUMARESH.R	91
20	920419114020	LOKESH.S	93
21	920419114021	MADHAVAN.G	93
22	920419114022	MADHAVAN.P	94
23	920419114023	MANOJ.D L	93
24	920419114024	MUTHUVEERASALAPANDIAN.M	93
25	920419114025	NARENDRAN.K	95
26	920419114026	NAVANEETHA KRISHNAN.N	94
27	920419114027	NAVEEN.D	94



28	920419114028	PRAVEEN RAJ.R	94
29	920419114029	RAHUL.V	95
30	920419114030	RAJESH KANNAN.R	91
31	920419114031	RAMPRASATH.C	93
32	920419114032	RATHINA SIVA MALAYAPPAN.G	90
33	920419114033	SATHEESH KUMAR.K	96
34	920419114034	SIVA ANANTH.E	96
35	920419114035	SIVABARATH.K	91
36	920419114036	SUBHASH RAAJ.K	91
37	920419114038	THOMAS LIVIN DANIEL.A	96
38	920419114039	VENKATESHWARA.R	92
39	920419114040	VIGNESH.G	94
40	920419114041	VIGNESH.K B	94
41	920419114042	VIGNESH.NA	92
42	920419114043	VIMAL.A	91
43	920419114044	YUVARAJ.K	95
44	920419114301	ARUNKUMAR.P	91
45	920419114302	BALA SUDHARSAN.N	93
46	920419114303	DHARUN.N	92
47	920419114304	GANESH KARTHIK.S	94
48	920419114305	HARIHARAN.R	94
49	920419114306	MANIKANDA PRABHU.K	92
50	920419114307	MICKAEL RAJ.P	91
51	920419114308	MOHAMEDIRSHATH.A	96
52	920419114309	NAGARAJ.S	93
53	920419114310	PANDI KAMAL KRISHNA.A	94
54	920419114311	PARTHIBAN.P	92
55	920419114312	PRABAKARAN.A	94
56	920419114313	RAGUL.S	93
57	920419114314	RATHISH.S	94
58	920419114315	SENTHIL KUMAR.M	93
59	920419114316	SIVAPACKIA.R	97
60	920419114317	SIVA SUBRAMANIAN.S	93
61	920419114318	VIJAYAKUMAR.S	92
62	920419114319	VINISH KUMAR.J	93

N.R. mackhan  
D.D.



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)  
S.P.G.Chidambara Nadar - C.Nagammai Campus  
S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

**DEPARTMENT OF MECHANICAL ENGINEERING**

Value Added Course on HEATING VENTILATION & AIR CONDITIONING

Year / Sem Batch: III / VI / 2019 – 23

Conducted: Excel MEP, Bangalore


18.03.2022 to 30.03.2022

S.No	Rollno	Regno	Student Name	Mark
1	19UMEC025	920419114001	AAKASH KANNAN.U	91
2	19UMEC023	920419114002	ABISHEK KUMAR.S	93
3	19UMEC026	920419114003	AJAY KUMAR.R	93
4	19UMEC037	920419114004	ARAVINDAN.C	95
5	19UMEC030	920419114005	ARUNKUMAR.V	92
6	19UMEC008	920419114006	ASWIN.K	92
7	19UMEC039	920419114007	ASWIN SUNDAR.R	91
8	19UMEC004	920419114008	BALASUBRAMANIYAN.R	94
9	19UMEC009	920419114009	BHUVANESH PANDIAN.P	95
10	19UMEC028	920419114010	DEEPAN KAARTHIK.T	93
11	19UMEC038	920419114011	GNANAPRAKASAM.G	93
12	19UMEC011	920419114012	GOBINATH.M	95
13	19UMEC027	920419114013	GOVARTHANAN.T	92
14	19UMEC022	920419114014	JAGANATHAN.S	92
15	19UMEC016	920419114015	JEEVABALAN.J	92
16	19UMEC002	920419114016	JOYSON RALPH JEBADURAI.V	92
17	19UMEC036	920419114017	KALIDASAN.M	93
18	19UMEC010	920419114018	KARTHIK.S	94
19	19UMEC031	920419114019	KUMARESH.R	91
20	19UMEC007	920419114020	LOKESH.S	93
21	19UMEC019	920419114021	MADHAVAN.G	93
22	19UMEC021	920419114022	MADHAVAN.P	94
23	19UMEC015	920419114023	MANOJ.D L	93
24	19UMEC012	920419114024	MUTHUVEERASALAPANDIAN.M	93
25	19UMEC001	920419114025	NARENDRAN.K	95
26	19UMEC013	920419114026	NAVANEETHA KRISHNAN.N	94
27	19UMEC029	920419114027	NAVEEN.D	94
28	19UMEC032	920419114028	PRAVEEN RAJ.R	94
29	19UMEC005	920419114029	RAHUL.V	95
30	19UMEC006	920419114030	RAJESH KANNAN.R	91
31	19UMEC044	920419114031	RAMPRASATH.C	93
32	19UMEC020	920419114032	RATHINA SIVA MALAYAPPAN.G	90
33	19UMEC024	920419114033	SATHEESH KUMAR.K	96
34	19UMEC035	920419114034	SIVA ANANTH.E	96
35	19UMEC043	920419114035	SIVABARATH.K	91
36	19UMEC014	920419114036	SUBHASH RAAJ.K	91
37	19UMEC033	920419114038	THOMAS LIVIN DANİYAL.A	96
38	19UMEC042	920419114039	VENKATESHWARA.R	92
39	19UMEC041	920419114040	VIGNESH.G	94
40	19UMEC040	920419114041	VIGNESH.K B	94
41	19UMEC034	920419114042	VIGNESH.NA	92

42	19UMEC003	920419114043	VIMAL A	91
43	19UMEC017	920419114044	YUVARAJ K	95
44	19UMEC053	920419114301	ARUNKUMAR P	91
45	19UMEC059	920419114302	BALA SUDHARSAN N	93
46	19UMEC058	920419114303	DHARUN N	92
47	19UMEC045	920419114304	GANESH KARTHIK S	94
48	19UMEC061	920419114305	HARIHARAN R	94
49	19UMEC062	920419114306	MANIKANDA PRABHU K	92
50	19UMEC047	920419114307	MICKAEL RAJ P	91
51	19UMEC060	920419114308	MOHAMEDIRSHATH A	96
52	19UMEC056	920419114309	NAGARAJ S	93
53	19UMEC054	920419114310	PANDI KAMAL KRISHNA A	94
54	19UMEC046	920419114311	PARTHIBAN P	92
55	19UMEC057	920419114312	PRABAKARAN A	94
56	19UMEC050	920419114313	RAGUL S	93
57	19UMEC055	920419114314	RATHISH S	94
58	19UMEC052	920419114315	SENTHIL KUMAR M	93
59	19UMEC049	920419114316	SIVAPACKIA R	97
60	19UMEC063	920419114317	SIVA SUBRAMANIAN S	93
61	19UMEC051	920419114318	VIJAYAKUMAR S	92
62	19UMEC048	920419114319	VINISH KUMAR J	93

  
Staff Incharge

  
HoD/Mech

  
Dean Academics

# Feedback Form | III Year | Value Added Course

**Title of the Program** : Value added course for "HVAC"

**Participants** : III-year students

**Date** : 28.03.2022 to 30.03.2022

**Conducted by** : Excel MEP, Bangalore

**Software used** : RIVET & MS EXCEL

**Mode** : OFF Line

**Coordinators:**

Mr. Madhan N R, AP/Mech,

Dr. Prithviraj M, AP/Mech,

Department of Mechanical Engineering,

**Instructions:** Please indicate your level of agreement the statements listed below

4 Star - Strong Agree

3 Star - Agree

2 Star - Neutral

1 Star - Dis-Agree

\* Required

\* This form will record your name, please fill your name.

1. The objectives of the training were clearly defined by the Co-ordinator \*





2. Participation and interaction were encouraged.

\*



3. The topics covered were relevant to me.

\*



4. The content was organized and easy to follow.

\*



5. This training experience will be useful me. \*



6. The trainer was knowledgeable about the training topics.

\*



7. The trainer was well prepared.

\*



8. The trainer was well prepared.

\*



9. The training objectives were met.

\*



10. The training objectives were met.

\*



11. The time allotted for the training was sufficient

\*



12. The CAD Lab and CNC Machine were adequate and comfortable. \*



## Your view about this programme

13. What did you like most about this training?

\*

14. What aspects of the training could be improved?

\*

15. How do you hope to change your practice as a result of this training?

\*

16. Please share over all comments about this programme.

\*

17. Do you suggest this programme to your juniors \*

No

Yes

## Certificate Details

18. Kindly upload your certificate here.  
(Please share as a PDF within 5MB) \*

 Upload file


File number limit: 1 Single file size limit: 10MB Allowed file types: Word, Excel, PPT, PDF, Image, Video, Audio

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 Microsoft Forms

*N.R. Mathan*

Approved by  
  
HoD/Mech

# Feedback Form |III Year | Value Added Course

46 Responses	09:25 Average time to complete	Active Status
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1. The objectives of the training were clearly defined by the Co-ordinator (0 point)



2. Participation and interaction were encouraged. (0 point)



3. The topics covered were relevant to me. (0 point)



4. The content was organized and easy to follow. (0 point)

46  
Responses

★★★★  
3.50 Average Rating

---

5. This training experience will be useful me. (0 point)

46  
Responses

★★★★  
3.57 Average Rating

---

6. The trainer was knowledgeable about the training topics. (0 point)

46  
Responses

★★★★  
3.52 Average Rating

---

7. The trainer was well prepared. (0 point)

46  
Responses

★★★★  
3.50 Average Rating

---

8. The trainer was well prepared. (0 point)

46  
Responses

★★★★  
3.50 Average Rating

---

9. The training objectives were met. (0 point)

46  
Responses

★★★★  
3.48 Average Rating

---

10. The training objectives were met. (0 point)

46  
Responses

★★★★  
3.37 Average Rating

---

11. The time allotted for the training was sufficient (0 point)

46  
Responses

★★★★  
3.35 Average Rating

---

12. The CAD Lab and Demo Session were adequate and comfortable. (0 point)

46  
Responses

★★★★  
3.50 Average Rating

---

13. What did you like most about this training? (0 point)

46  
Responses

Latest Responses

- "cnc machine"
- "Good"
- "Yes "

9 respondents (20%) answered **Cnc** for this question.



14. What aspects of the training could be improved? (0 point)

46  
Responses

Latest Responses

- "Nothing"
- "Skills development"
- "Nothing "

6 respondents (13%) answered **good** for this question.





15. How do you hope to change your practice as a result of this training? (0 point)

46  
Responses

Latest Responses

- "Nothing"
- "Good"
- "Nothing "

8 respondents (17%) answered **good** for this question.



16. Please share over all comments about this programme. (0 point)

46  
Responses

Latest Responses

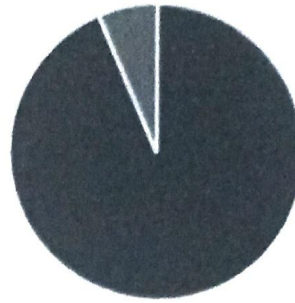
- "Nice"
- "Nil"
- "Nice"

12 respondents (26%) answered **Good** for this question.



17. Do you suggest this programme to your juniors (0 point)




- Yes 43
- No 3



18. Kindly upload your certificate here. (0 point)  
(Please share as a PDF within 5MB)

46  
Responses

Latest Responses

-  navaneetha krishnan\_NAVANEETHAKRISHNAN.P.pdf
-  New doc Feb 26, 2022 3.44 PM\_SAIKISHORE.K(ME).pdf
-  cipet\_SIVAGURU.U(ME).pdf

Training made a impact in HVAC  
basics and many students planned  
to proceed further in this area as their  
primary career.

*Jub*  
CHAIRPERSON.

most of the students gave  
positive feedback about  
the programme.  
S.S. Srinivasan  
HOD/mech.



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STATE KARNATAKA  
STATE CODE 29

TAX INVOICE

Customer Name and Address

Kamaraj College of Engineering & Technology  
S.P.G.Chidambara Nadar-C.Nagammal Campus,  
S.P.G.C.Nagar, K.Vellakulam - 625 701  
Near Virudhunagar , Madurai District.  
INDIA

Delivery Name and Address

Kamaraj College of Engineering & Technology  
S.P.G.Chidambara Nadar-C.Nagammal Campus,  
S.P.G.C.Nagar, K.Vellakulam - 625 701  
Near Virudhunagar , Madurai District.  
INDIA

GSTIN		STATE		STATE CODE		GSTIN		STATE		STATE CODE	
		Tamil Nadu		33				Tamil Nadu		33	
SL NO	HSN CODE	PARTICULARS/SERIAL NO	UOM	QTY	RATE	TAXABLE VALUE	IGST		TOTAL		
							RATE	AMOUNT			
1	995463	Charges Towards Value Added Couses "HVAC- Design"	Lot	1	105085	105084.75	18%	18915.25424	124000		
TOTAL AMOUNT						105084.75	18%	18915.25424	124000		

In Words One Lakh Twenty Four Thousand Rupees Only/-

Terms and Conditions:

1.All Payment should sent to the above address with Invoice No &Date

TOTAL AMOUNT BEFORE TAX	105084.7458
ADD : IGST	18915.25424
TOTALTAX AMOUNT	18915.25424
ROUND OFF	
TOTAL WITH TAXES	124000.00
GST On Reverse Charge	

Account Details:

BANK NAME : IDBI BANK  
BANK A/C NO : 008102000046686  
IFSC CODE : IBKL0000008

Certified that the particulars given above are true and correct

For ONE WORLD INC

*N.R. Mathan*



Authorised Signatory



# Excel MEP Institute

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E-Mail: [oneworldinc@gmail.com](mailto:oneworldinc@gmail.com) | Call:09886001720 / 09739933559

## **CENTRE FOR SKILLING AND TECHNICAL SUPPORT (CSTS)**

### **About Our Institute**

Having started in the year 1994 as Techademy, Excel MEP Institute has Trained & Successfully placed many Engineers & Diploma holders in the field of HVAC, Electrical, Plumbing (PHE) & Firefighting We train our students who are Graduate Engineers, Diploma Holders & ITI graduates in Design & Draughting of MEP Systems making them technically sound in the MEP domain by giving theoretical, Practical and Draughting skills.

### **Course Offered:**

- HVAC
- ELECTRICAL
- PLUMBING
- FIRE FIGHTING
- REVIT MEP ( Jan 2017 )
- CLEAN ROOM DESIGNING

### **The main objectives of the courses at Excel MEP Academy are ;**

- To enhance the employability of engineering students.
- To enhance the standard of fresh engineering graduates so that they become acceptable to the industry.
- To cater to the needs of the industry.
- To create a platform where the students can work towards accessing the skills required to get into industry.
- To bridge the gap between industry and educational institutions.
- To provide both technical and soft skill to people to facilitate their employability.
- To meet the needs of unemployed and non-employable engineering graduates and to improve their communication skills.
- To reinforce the students skills and acquire industry-specific knowledge from trained faculty and experts from industries.
- To offer suitable candidates to different industries.
- To help young graduates to find jobs through appropriate training.