



**(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.R.G.Chidambara Nedar - C. Nagammal Campus,  
S.R.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 offered 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.

Rs. 2000/-  
incl of GST

I kindly request you to sanction 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
<b>28.03.2022</b>	CSE Conference Hall – I	
<b>29.03.2022</b>	Mechanical CAD Lab	
	Civil CAD Lab	
<b>30.03.2022</b>	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 DANIAL 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. <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> </li> </ol>

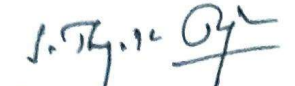
- Subject expects are suggested to offer Air Conditioning (Thermal) related courses.
- Dr. S. Thanga Kasi Rajan, Assistant Professor has advised to maintain SOP for value added course.
- Based on the suggestion given by the Subject Expects & 2019-2023 Batch Chairperson, 3 committee members for Value 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:**

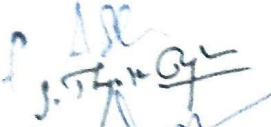
The justification for the course selection were as follows

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

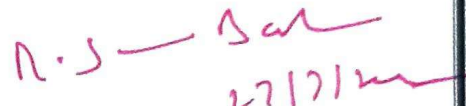
  
**Three Member Committee Members**  
 Dr. S.S. Saravana Kumar, ASP & HoD/Mech  
 Er. N.R. Madhan, AP/Mech

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

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

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

  
**HoD/Mech**

  
**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

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**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.



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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. malhan*  
Faculty In-charges

*D. D. Suresh Kumar*  
HoD/Mech



ISO 9001:2015 Certified

# 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

Director



**KAMARAJ**  
COLLEGE OF ENGINEERING & TECHNOLOGY

