

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

CIRCULAR

AMSCE/ME/VAC01/2018-2019

It is informed to all the students of Mechanical Engineering, it is proposed to conduct Value Added Courses on "HEAT VENTILATION AND AIR CONDITIONING (HVAC)" (32 hours duration) offered in our campus **Thermal Engineering Laboratory** that the course starts from 28.08.2018 to 20.09.2018. Detailed Schedule along with information for taking up this Industry based courses are shared before the commencement of the program. All the students of third year Mechanical Engineering are requested to follow the guidelines given to derive the maximum benefits from the resource person.

Note:

*Minimum 80 % attendance mandatory to receive the certificates.

*Assessment Test will be conducted at the end of session.

RESOURCE PERSON:

Er Babu Sasikumar, M.E., (Ph.D.)

Assistant Professor-Mechanical Engineering

Mr.S.Parthasarathy D.M.E.,

Thermal Lab -Instructor



Sathish
24/08/2018
Head - Mechanical Engineering

[Signature]
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DEPARTMENT OF MECHANICAL ENGINEERING

*Organise
Value Added Course*

on

“Heat Ventilation and Air Conditioning(HVAC)”



Course Details:

Resource Person:

Mr. Babu Sasikumar .R, Assistant Professor, Kings Engineering College

Duration: 32 Hrs

Course start: 28/08/2018 to 20/09/2018

Time: 1.00 pm to 5.00 pm.

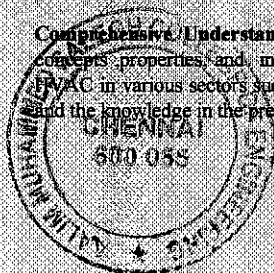
Venue : CAD/CAM Laboratory, Mechanical / Civil Block.

Contact (resource person): +91-9524597414

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Course Objectives:

- Comprehensive Understanding of HVAC Equipments with in-depth knowledge of refrigeration and air conditioning, fundamental concepts, properties, and industrial applications. This objective is to ensure that learners can understand the significance and potential of HVAC in various sectors such as building, hospitals, automobiles, aerospace, and communications systems. Provides hands on experience and the knowledge in the preparation and characterization of HVAC SYSTEMS.





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REPORT FOR THE VALUE ADDED COURSE ON Heat Ventilation and Air Conditioning (HVAC)

Course Name: Heat Ventilation and Air Conditioning (HVAC)

Date:28/8/2018 to 20/09/2018

Time:1.00p.m to 5.00 pm

Course Hours:32

Attended Students:30

Students Certified:30

1. Course Objectives

- To provide participants with a comprehensive understanding of HVAC systems.
- To equip attendees with practical skills related to system design, installation, and maintenance.
- To discuss energy efficiency and sustainability in HVAC applications.

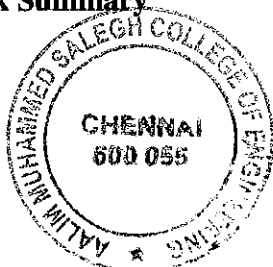
2. Participant Demographics


- Total Participants: [Insert Number]
- Backgrounds: [Insert Background Information (e.g., students, industry professionals, technicians)]

3. Course Content Overview

- **Introduction to HVAC Systems:**
 - Overview of heating, ventilation, and air conditioning principles.
- **System Components:**
 - Detailed examination of boilers, chillers, ductwork, and controls.
- **Design Principles:**
 - Load calculations, duct design, and equipment selection.
- **Installation and Maintenance:**
 - Best practices for installation, troubleshooting, and regular maintenance.
- **Energy Efficiency and Sustainability:**
 - Strategies for optimizing HVAC performance and reducing energy consumption.

4. Feedback Summary




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- **Positive Aspects:**

- Relevant and practical content, with 85% of participants finding it applicable to their work.
- High ratings for the facilitator's expertise and teaching methods (90% rated excellent).
- Engaging hands-on activities and real-world case studies (80% satisfaction).

- **Areas for Improvement:**

- Some participants (65%) requested more time for complex topics, particularly system design.
- Additional resources, such as handouts and online materials, were requested by 60% of attendees.
- Increased opportunities for interactive discussions were suggested by 70% of participants.

5. Key Outcomes

- Participants gained a thorough understanding of HVAC systems and their components.
- Practical skills were developed through hands-on exercises and real-world scenarios.
- Networking opportunities facilitated collaboration among industry professionals.

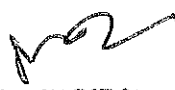
6. Recommendations for Future Courses

1. **Course Duration:** Consider extending the course to provide more in-depth coverage of complex topics.
2. **Supplementary Materials:** Provide additional reading materials and resources for further study after the course.
3. **Interactive Learning:** Increase the number of group discussions and collaborative activities to enhance engagement.
4. **Follow-Up Opportunities:** Establish a follow-up workshop or online forum for participants to continue learning and sharing experiences.

7. Conclusion

The HVAC course successfully met its objectives, providing valuable knowledge and skills to participants. By addressing the feedback and recommendations, future iterations can further enhance the learning experience and participant satisfaction




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From

Date: 18/08/2018

The Head of the Department
Department of Mechanical Engineering,
Aalim Muhammed Salegh college of Engineering,
Muthapudupet, Avadi, I.A.F.,
Chennai- 600 055.

To

The Principal,
Aalim Muhammed Salegh college of Engg.
Muthapudupet, Avadi I.A.F.,
Chennai - 600 055.

Sub: Requisition for the Approval to conduct Value Added Course
in Mechanical department - Regarding.

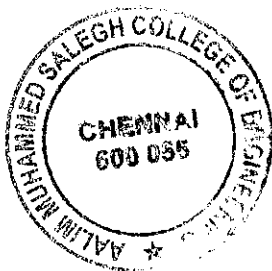
Respected Sir,

We would like to conduct a Value Added Course on the title "**Heat Ventilation and Air Conditioning**" for third year mechanical students by the resource person Er. Babu Sasi Kumar , Assistant Professor, Kings Engineering College Chennai, who will be organizing the course. The scheduled date for the value added course is from 28/08/2018 to 20/09/2018. We kindly request you to provide approval for the same.

Thanking you

Yours Faithfully

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18/8/2018
HOD/MECH



Permitted

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18/8/2018

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Value Added Course Details

Course Name: Heat Ventilation and Air Conditioning Date : 28-08-2018 to 20-09-2018

Time: 1.00 pm to 5.00 pm

Duration	Content	Total Hours
28-08-2018 & 30-08-2018	Topic : 1 Introduction to HVAC <ul style="list-style-type: none"> • Scope of Designing • Basics and importance of HVAC • Future advancements in HVAC • Standards and Codes • Mode f heat transfer 	8
04-09-2018 & 06-09-2018	Topic : 2 Basic Components of Air Conditioning <ul style="list-style-type: none"> • Types of refrigeration cycles • Study of psychometric charts (Manual and software) • Study of refrigerant 	8
11-09-2018 & 13-09-2018	Topic : 3 Types of Air Conditioning System <ul style="list-style-type: none"> • Design of ventilation systems • Chillers • Heat pumps • Heat load calculations 	8
18-09-2018 & 20-09-2018	Topic: 4 Air Distribution System <ul style="list-style-type: none"> • Duct Designing Methods • Pipe Sizing • AHU and FCU Classification and selection • Estimation of Projects 	8
Total Hours		32



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Approved by All India Council for Technical Education - New Delhi, Affiliated to Anna University, Chennai

NAAC Accredited Institution

"Nizara Educational Campus", Muthapudupet, Avadi - IAF, Chennai - 600 055.

ANNA UNIVERSITY COUNSELLING CODE : 1101



Value Added Course Tentative Time Table And Schedule

Value Added Course Name: Heat Ventilation and Air Conditioning

Date of Commencement: From 28/08/2018

Timing: 1.00 pm to 5.00 pm

Tentative Date of Exam- 20/09/2018

Tentative Course Schedule – 28/08/2018 to 20/09/2018 (As per following)


No. Of Days: 8

Course Hours: 32

Speaker: Mr. BABU SASI KUMAR

1. Topic -1: Introduction to HVAC – 28-08-2018 & 30-08-2018– 8 hrs
2. Topic -2: Basic Components of Air Conditioning– 04-09-2018 & 06-09-2018
-8 Hours
3. Topic -3: Types of Air Conditioning System- 11-09-2018 & 13-09-2018– 8 Hours
4. Topic -4: Air Distribution System - 18-09-2018 & 20-09-2018– 8 Hours




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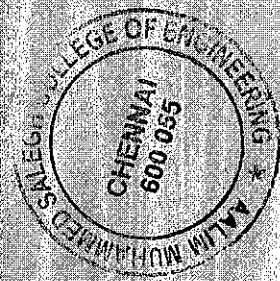
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DEPARTMENT OF MECHANICAL ENGINEERING
COURSE ON "HEAT VENTILATION & AIR CONDITIONING"



STUDENTS ATTENDANCE LIST

COURSE INSTRUCTOR: M. BABU S. ASI KUMAR

REG NO	NAME	25.09.18	26.09.18	27.09.18	28.09.18	29.09.18	30.09.18	01.10.18	02.10.18
110116114001	AATHIL AMEEN J	Present	Present	Present	Present	Present	Present	Present	Present
110116114004	ABRAR AHAMED A	Present	Present	Present	Present	Present	Present	Present	Present
110116114005	AHAMED HARI S NA	Present	Present	Present	Present	Present	Present	Present	Present
110116114006	AJMAL T	Present	Present	Present	Present	Present	Present	Present	Present
110116114007	ANIES AHMED N	Present	Present	Present	Present	Present	Present	Present	Present
110116114013	BHARATHI S	Present	Present	Present	Present	Present	Present	Present	Present
110116114017	FAAIZUR RAHMAN AR	Present	Present	Present	Present	Present	Present	Present	Present
110116114018	GOPINATH T	Present	Present	Present	Present	Present	Present	Present	Present
110116114030	KARTHICK T	Present	Present	Present	Present	Present	Present	Present	Present
110116114041	MOHAMED FAZA	Present	Present	Present	Present	Present	Present	Present	Present
110116114042	MOHAMED HAMDANS	Present	Present	Present	Present	Present	Present	Present	Present
110116114046	MOHAMED IRFAN H	Present	Present	Present	Present	Present	Present	Present	Present
110116114048	MOHAMED NAASIB K	Present	Present	Present	Present	Present	Present	Present	Present
110116114051	MOHAMED RAZEEN M	Present	Present	Present	Present	Present	Present	Present	Present
110116114061	MOHAMED UWAISS KARNI	Present	Present	Present	Present	Present	Present	Present	Present
110116114062	MOHAMMED ASHIER RIJWAN	Present	Present	Present	Present	Present	Present	Present	Present
110116114070	MOHAMMED YOUSUF MER	Present	Present	Present	Present	Present	Present	Present	Present
110116114072	MUFEES AHAMED S	Present	Present	Present	Present	Present	Present	Present	Present
110116114082	RASEEHANVAR V M	Present	Present	Present	Present	Present	Present	Present	Present
110116114084	SAMEER AHAMED P S S	Present	Present	Present	Present	Present	Present	Present	Present
110116114087	SHAKEEL AHMED M S	Present	Present	Present	Present	Present	Present	Present	Present
110116114303	AHSAN S	Present	Present	Present	Present	Present	Present	Present	Present
110116114304	FAYAZ V	Present	Present	Present	Present	Present	Present	Present	Present
110116114306	HUSSAIN MUHTASHIM R	Present	Present	Present	Present	Present	Present	Present	Present
110116114310	MOHAMED SHADHUR H	Present	Present	Present	Present	Present	Present	Present	Present
110116114312	MOHAMMED FARMAAN H	Present	Present	Present	Present	Present	Present	Present	Present
110116114313	MOHAMMED SAAD M	Present	Present	Present	Present	Present	Present	Present	Present
110116114314	MOHAMMED SHAKIERS	Present	Present	Present	Present	Present	Present	Present	Present
110116114320	RIZWAN BASHA M	Present	Present	Present	Present	Present	Present	Present	Present
110116114324	SUBHAIL S	Present	Present	Present	Present	Present	Present	Present	Present



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M.S.

S. Sankaranarayanan
HEAD
 Department of Mechanical Engineering
 Aalim Muhammed Salegh College of Engineering
 Avadi - I.A.F, Chennai - 600 055

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DATE: 27 SEPTEMBER 2018



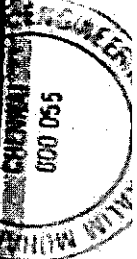
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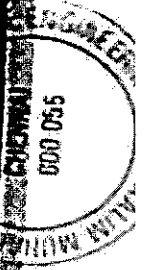
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CO - Coordinator
Dept. of Mechanical Engineering
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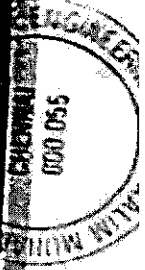
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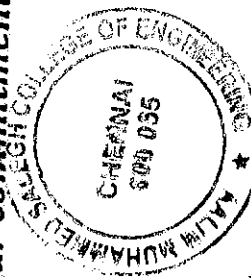
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