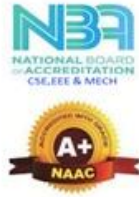




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1.2.2 Number of Add on/certificate programs offered during 2023-2024

INDEX

2023-2024		
S.No	Name of Add on / Certificate programs offered	Page no.
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2	MEP - HVAC Design Training	
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Date: 27.09.2023

To
The Principal
M.I.E.T Engineering College,
Trichy - 620007.

Respected Sir,

Sub: Permission to conduct the Value Added Course - Reg.

We have planned to conduct the value added course for the Third year students of Mechanical Engineering from 03.10.2023 to 07.10.2023.

Name of the Value Added Course	Resource Persons	Course Coordinator
Hands-on training on Electric Vehicles (EV)	Mr. K.C. Tamil Venthan Director, LIFT INDIA (Life Intensive Formation of Trust).	Mr.K.BASKAR & Mr.C.MANIKANDAN

So kindly give us permission to conduct the course and to utilize the Metrology and Measurements Laboratory.

Thanking you

27.9.23
Course Coordinators

HoD Mech

27/9/23
Principal

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DEPARTMENT OF MECHANICAL ENGINEERING

CIRCULAR

Date: 27.09.2023

Sub: Value Added Course – Hands-on training on Electric Vehicles (EV)

It is planned to conduct the value added course for the Third year Mechanical Engineering students during the class hours.


The certificate programs are short term certificate courses which are designed and offered by M.I.E.T. Engineering College and LIFT INDIA (Life Intensive Formation of Trust) for the benefit of Third year Mechanical Engineering students.

Value added courses comprises the following,

- ❖ 30 hours lectures.
- ❖ Course Material will be provided.
- ❖ Evaluation of the Performance.
- ❖ Certificate will be provided.

Students those who are willing to attend the **Hands-on training on Electric Vehicles (EV) Value Added Course** can enroll to the course coordinator.

Name of the Value Added Course	Resource Persons	Course Coordinator
Hands-on training on Electric Vehicles (EV)	Mr. K.C. Tamil Venthana Director, LIFT INDIA (Life Intensive Formation of Trust).	Mr.K.BASKAR & Mr.C.MANIKANDAN
Commencement of course from 03.10.2023 to 07.10.2023		
Time: 09.15 AM to 04.50 PM		


Course Coordinator


IQAC Coordinator


HoD/Mech


Principal


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GUNDUR, TIRUCHIRAPALLI - 620 007



M.I.E.T.

Engineering College, Trichy



DEPARTMENT OF MECHANICAL ENGINEERING

Cordially invites you to the

VALUE ADDED COURSE PROGRAMME

Date: 03/10/2023- Forenoon



Er.A.Mohamed Yunus

Chairman, M.I.E.T. Engineering College, Trichy

will deliver the presidential address

Mr. K.C. Tamil Venthana,

Director,

LIFT INDIA (Life Intensive Formation of Trust),

Trichy - 620002.

will deliver the Special Lecture on

**“Hands-on Training on Electric Vehicles
(EV)”**

Dr.A.Naveen Sait

Principal, M.I.E.T. Engineering College, Trichy

will offer the Felicitation

Coordinator

Mr.K.Baskar

Mr.C.Manikandan

AP/Mech

(Signature)
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**M.I.E.T. ENGINEERING COLLEGE
GUNDUR, TIRUCHIRAPALLI - 620 007**

Dr. B. Selvam

HOD- MECH



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TRICHY - PUDUKKOTTAI MAIN ROAD, TRICHY - 620 007



DEPARTMENT OF MECHANICAL ENGINEERING

Cordially Invite You for the

VALUE ADDED COURSE

HANDS-ON TRAINING ON ELECTRIC VEHICLE

Program on 03.10.2023 to 07.10.2023

Venue : Metrology and Measurements Lab, 'D' Block

Time : 9.15 a.m. to 4.50 p.m.

Resource Person

Mr. K.C. Tamil Venthan

Director,

LIFT INDIA (Life Intensive Formation of Trust)

Trichy-620 002.

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In Association With





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Department of Mechanical Engineering

Value Added Course

Topic: Hands-on training on "Electric Vehicles" (EV)

Name of the course :	Hands-on training on "Electric Vehicles" (EV) – Value Added Course
Course Code :	ME23241
Academic Year :	2023 - 2024
Course Coordinators :	Mr. K. Baskar, Mr. C. Manikandan. AP/Mech.
Total Hours :	30 Hours
Date :	03.10.2023 to 07.10.2023

Time table

Day	Date	9.15 to 10.55		11.15 – 12:55		01:45 – 03:15		03:15 – 04:50
Day 1	03- Oct-23	Lecture - 1	Test Break	Lecture - 2	Launch Break	Lecture - 3	Test Break	Lecture - 4
Day 2	04-Oct-23	Lecture - 5		Lecture - 6		Lecture - 7		Lecture - 8
Day 3	05-Oct-23	Lecture - 9		Lecture - 10		Lecture - 11		Lecture - 12
Day 4	06-Oct-23	Lecture - 13		Lecture - 14		Lecture - 15		Lecture - 16
Day 5	07-Oct-23	Lecture - 17		Lecture - 18		Lecture - 19		Lecture - 20

Course objective:

1. To learn the basics of electric vehicles.
2. To learn the various components used in the Electric Vehicle.
3. To learn the step-by-step procedure to disassemble and assemble of electric scooter components.

Lesson Plan

Day	Lecture	Topics Covered
Day 1	Lecture – 1,2	Introduction to Electrical Vehicles, EV Subsystems, Design of EV, Types of Battery Performance, Mechanical and Thermal Design of EV, Types of Electric Vehicle and components Electrical protection and system requirements. General stability concept and its application. Conditions of vehicle stability: Neutral steering, over steering. Vehicle Handling: Simplified equation for lateral motion under different steering conditions. Dynamic analysis and performance characteristics of a comfort vehicle ride.


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Day 1	Lecture – 3,4	<p>Characteristics of power electronic switches, Drive circuits, Voltage and current sensing mechanism, Introduction to Human Machine Interface, Basics of DC-DC converters, DC/AC inverters and PWM Control techniques, Modelling procedures of the power converters, State space averaging, Designing of the close loop control of a power converter, AC to DC rectifiers analysis and performance with passive loads.</p> <p>(Project: AC to DC Converter & Motor Speed Control System using MOSFET)</p>
Day 2	Lecture – 5,6	<p>Overview of microcontrollers and a closer look at Atmel-89c51, Arduino, Node MCU, Raspberry Pi, Major components: clocks, timers and PLLs, sleeping modes and power saving, display interfaces. Sensors and transducers: electromagnetic, pneumatic, motors and servos. PID control examples. Sensor specification and calibration with examples. BUS protocols: Time-triggered systems. Wireless communications protocols. Software environments and tools, tool chain, low level C, Electronic Interfacing of common components for use with sensors.</p>
Day 2	Lecture – 7,8	<p>Modern Electric, Hybrid Electric, and Fuel Cell Vehicles Fundamentals, Theory, and Design, Vehicle Dynamics, drive train design methodology and control principles, Battery-fuel cell-super capacitor requirements, Advantages and disadvantages of EVs. Components of Electric Vehicle Comparison with Internal combustion Engine; Benefits and Challenges EV classification and their electrification levels. EV Terminology.</p> <p>Inter and Intra Vehicle Communications. Communication Basics- Bandwidth, Data rate, Frequency, Power, etc. Vehicle-to-vehicle, Vehicle -to-infrastructure, vehicle-to-everything communications, Communication Protocols: Dedicated short-range communications wireless access in vehicular environments Calculating the Rolling Resistance calculating the grade resistance Calculating the Acceleration Force Finding the total attractive Effort Torque required on the Drive Wheel.</p> <p>Project: DC to AC Invertors, PWM, Voltage boost & Stepper Motor Control Systems.</p>
Day 3	Lecture – 9,10	<p>Introduction to Embedded Systems, Architectures of embedded processors, Memory hierarchy and its management Basics of Microcontrollers –timers, interrupts, analogy to digital conversion, boot loaders Interaction with devices -buses, memory management, device drivers and wireless comm., Interfacing sensors, actuators and peripherals. Real-time principles – multi -tasking, scheduling, synchronization Building low-power high-</p>

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		performance systems –code profiling and optimization Architecture, Case Studies of Real time.
Day 3	Lecture – 11,12	Principles of Operation of Cells and Batteries; Electrochemical Principles and Reactions, Factors Affecting Battery Performance; Battery Design, Primary Batteries, Secondary Batteries, Advanced Lead-acid, Ni-based and lithium ion. Next Generation Batteries Fuel cells, Super capacitors, Selection and Application of energy storage systems for UPS, Solar, Telecom, Grid and Electric Vehicle Systems. Energy generation, Energy storage, Generation-side management, Network operation, Demand-side management, Design example of the autonomous power supply using solar PV and battery to study energy management, Energy management smart parking lot with EVs. Function of CU Development Process Software Hardware Data Management GUI/HMI. Project: Servo Motor Speed Control Using ARDUINO & Embedded C program.
Day 4	Lecture - 13	Characteristics of the photovoltaic cell, Semiconductor Basics, Active components and Active components, Silicon solar cells, Thermodynamic limit to efficiency, Light management, electrical losses, thin-film silicon solar cells; Advanced strategies for high-efficiency solar cells;
Day 4	Lecture - 14	Material Synthesis, Electrode Preparation, Lead-acid and Li-ion cell assembly, Battery charge-discharge, Solar cell testing.
Day 4	Lecture – 15	Types of Motors Selection and sizing of Motor RPM and Torque calculation of motor Motor Controllers Component sizing Physical locations Mechanical connection of Motor. Cell Types (Lead Acid/Li/NiMH) Battery charging and discharging calculation Cell Selection and sizing Battery lay outing design Battery Pack Configuration Battery Pack Construction Battery selection criteria.
Day 4	Lecture – 16	Projects: Cell in Series & Parallel Connection, Volt & Amp., Solar Energy Induction Motor & Battery Charger Assembling.
Day 5	Lecture – 17	The environmental impacts of electric vehicles (EVs) need to be addressed before it becomes the next generation of vehicles commonly owned by the people. Certain battery types are already on the radar of environmental concerns owing to their hazardous nature of elements used and their disposal. The same needs to be checked and understood for minimizing the impacts.
Day 5	Lecture – 18	A component wise analysis is imperative to understand the factors influencing the environmental impact of EVs from LCA

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		perspective. A quantitative ecological assessment of various stages such as EV charging, battery footprint, real world emissions, realistic lifetime mileages, comparative emissions of EVs.
Day 5	Lecture - 19	Introduction to materials, Mechanical behaviour of materials. Introduction to Polymers and composites in lightweight structures. Introduction to manufacturing of metal structures for lightweight design. Case studies of how industry has implemented light weighting.
Day 5	Lecture - 20	Type of Charging station Selection and Sizing of charging station Components of charging station Single line diagram of charging station. Technology Scenario Market Scenario Policies and Regulations Payback and commercial model Payback and commercial model Polices in India. Project: e bike assembling and dismantling, Repair, Trouble Shooting & Servicing.

Course outcome(s):

1. Students are able to construct motor control circuits.
2. Students are able to disassemble and assemble an electric scooter.


Course Coordinator


HoB


Principal


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Department Of Mechanical Engineering

Value Added Course- willing student list

Name of the course	: Hands-on training on "Electric Vehicles"(EV)
Course code	: ME23241
Academic year	: 2023-2024
Course coordinators	: Mr.K.Baskar,AP/MECH, Mr.C.Manikandan, AP/MECH,
Total hours	: 30 Hours
Date	: 03.10.2023 to 07.10.2023

Sl.No	Reg.No	Name of the participant	Remarks
1.	812421114002	ABDUL AFSAR AHAMED S	Course completed
2.	812421114003	ABUTHAHIR A	Course completed
3.	812421114004	AHAMED BATCHA.N	Course completed
4.	812421114006	AMARNATH R V	Course completed
5.	812421114008	AROCKIYA SANTHOSH KUMAR S	Course completed
6.	812421114009	BALAKUMARAN.K	Course completed
7.	812421114010	GURUADHITHYAN M	Course completed
8.	812421114011	HARIBALAN.P	Course completed
9.	812421114012	HARISH .K	Course completed
10.	812421114013	HARISH S	Course completed
11.	812421114018	KEVIN CHRISTOBAR RAJ P	Course completed
12.	812421114019	MANOJ KUMAR A	Course completed
13.	812421114020	MATHESHWARAN.C	Course completed
14.	812421114022	MOHAMED ASHIQ K	Course completed
15.	812421114023	MOHAMED NAFEEZ. J	Course completed
16.	812421114024	NAVIN RT	Course completed
17.	812421114025	PRAVEEN K	Course completed
18.	812421114027	SANTHOSH I	Course completed
19.	812421114032	WAHSIM.M	Course completed
20.	812421114033	YOGESH.C	Course completed
21.	812421114301	ABDULL RAHMAN M	Course completed
22.	812421114302	ABISHEK B	Course completed
23.	812421114303	ARAVIND E	Course completed
24.	812421114304	AZEES A	Course completed
25.	812421114305	DAKSESH VSB	Course completed
26.	812421114306	GINO ALEXANDER V	Course completed
27.	812421114308	HARIHARAN K	Course completed
28.	812421114309	JAMBUKESHWARAN S	Course completed
29.	812421114310	JASIM AHAMED N	Course completed
30.	812421114311	JOYAL MATHEW RAJ J	Course completed
31.	812421114313	KISHORE U	Course completed


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32.	812421114314	MARTIN I	Course completed
33.	812421114315	MOHAMED ABDUL KADER BASITH S	Course completed
34.	812421114316	MOHAMED ASLAM J	Course completed
35.	812421114317	MOHAMED IMRAN A	Course completed
36.	812421114318	MOHAMED IRFAN M	Course completed
37.	812421114319	MOHAMMED NOWFAL M	Course completed
38.	812421114320	NAVEENKUMAR S	Course completed
39.	812421114321	NISHANTH VR	Course completed
40.	812421114322	PRADEEP ALDOH P	Course completed
41.	812421114323	RAHUL ROSHAN	Course completed
42.	812421114324	RAMACHANDRAN C	Course completed
43.	812421114325	SURYA NARAYANAN	Course completed
44.	812421114326	THIRUVARUTSELVAN S	Course completed
45.	812421114327	VEERAPANDIYAN R	Course completed
46.	812421114328	VIGNESHWARAN M	Course completed
47.	812421114329	YASWANTH A	Course completed
48.	812421114330	YENISH A	Course completed

K. Dhanu C. Dhanu
Course co-ordinators

[Signature]
HoD
09/11/23

[Signature]
Principal

[Signature]
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Department Of Mechanical Engineering

Value Added Course- willing student list

Name of the course	:	Hands-on training on "Electric Vehicles"(EV)
Course code	:	ME23241
Academic year	:	2023-2024
Course coordinators	:	Mr.K.Baskar,AP/MECH, Mr.C.Manikandan, AP/MECH,
Total hours	:	30 Hours
Date	:	03.10.2023 to 07.10.2023

Sl.No	Reg.No	Name of the participant
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31.	812421114313	KISHORE U


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46.	812421114328	VIGNESHWARAN M
47.	812421114329	YASWANTH A
48.	812421114330	YENISH A

K. D. D.
Course Coordinator

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HOB

[Signature]
Principal

[Signature]
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DEPARTMENT OF MECHANICAL ENGINEERING

To

27.09.2023

The Principal,
M.I.E.T. Engineering College,
Trichy - 620 007.

Respected Sir,

Sub: Requisition for News & Events Updations in institution website - Reg.

We have planned to conduct the value added course for our third year Mechanical Engineering students from 03.10.2023 to 07.10.2023 at D- Block Metrology and Measurements Laboratory. In this regard, we would like to update the value added course program in our institution website. So, kindly provide the permission for the same.

News & Events:

Name of the Value added course: "Hands-on training on Electric Vehicles (EV)".

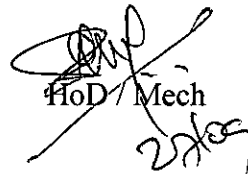
CIRCULAR

Value Added Course: - "Hands-on training on Electric Vehicles (EV)" on 03.10.2023 to 07.10.2023.

Topic : Hands on Training on Electric Vehicle
Date : 03.10.2023 to 07.10.2023.
Total Hours : 30
Resource person : Mr. K.C. Tamil Venthan,
Director,
LIFT INDIA (Life Intensive Formation of Trust).
TRICHY- 600002
No of students : 50
Venue : METROLOGY AND MEASUREMENTS LABORATORY, D - Block

Thanking you.


Event coordinator


HoD Mech


Principal


PRINCIPAL
M.I.E.T. ENGINEERING COLLEGE
GUNDUR, TIRUCHIRAPALLI - 620 007



M.I.E.T. ENGINEERING COLLEGE

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
 UG - CSE, EEE & MECH Programs Accredited by NBA, New Delhi
 Accredited with 'A+' grade by NAAC
 An ISO 9001:2015 Certified Institution



Established by M.T. Engineering College, under Govt. of UGC Act, 1956
 Trichy - Pudukkottai Road, Thuchirappalli - 620 017. Phone: 0431 2850 367
 Website: www.miet.edu. E-mail: principalengg@miet.edu, contact@miet.edu

DEPARTMENT OF MECHANICAL ENGINEERING												
Value Added course – Hands-on training on Electric Vehicles (EV)												
Sl.No	Reg.No	Name of the participant	03.10.2023		04.10.2023		05.10.2023		06.10.2023		07.10.2023	
			FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	812421114002	ABDUL AFSAR AHAMED S	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Ca	Ca
2	812421114004	AHAMED BATCHA.N	N.A.H	N.A.H	N.A.H	N.A.H	N.A.H	N.A.H	N.A.H	N.A.H	N.A.H	N.A.H
3	812421114003	ABUTHAHIR.A										
4	812421114006	AMARNATH R V	AB	AB	R.V.Am	R.V.Am	R.V.Am	R.V.Am	R.V.Am	R.V.Am	R.V.Am	R.V.Am
5	812421114008	AROCKIYA SANTHOSH KUMAR S	stuf	stuf	stuf	stuf	stuf	stuf	stuf	stuf	stuf	stuf
6	812421114009	BALAKUMARAN.K X	K.lah	K.lah	K.lah	K.lah	K.lah	K.lah	K.lah	K.lah	K.lah	K.lah
7	812421114010	GURUADITHIYAN M	G	G	G	G	G	G	G	G	G	G
8	812421114011	HARIBALAN.P	P.Har	P.Har	P.Har	P.Har	P.Har	P.Har	P.Har	P.Har	P.Har	P.Har
9	812421114012	HARISH .K	K.Harish	K.Harish	K.Harish	K.Harish	K.Harish	K.Harish	K.Harish	K.Harish	K.Harish	K.Harish
10	812421114013	HARISH S	S.Harish	S.Harish	S.Harish	S.Harish	S.Harish	S.Harish	AB	AB	S.Harish	S.Harish
11	812421114018	KEVIN CHRISTOBAR RAJ P	P.Kevin	P.Kevin	P.Kevin	P.Kevin	P.Kevin	P.Kevin	P.Kevin	P.Kevin	P.Kevin	P.Kevin
12	812421114019	MANOJ KUMAR A	A.Man	A.Man	A.Man	A.Man	A.Man	A.Man	A.Man	A.Man	A.Man	A.Man
13	812421114020	MATHESHWARAN.C	C.Math	C.Math	C.Math	C.Math	C.Math	C.Math	C.Math	C.Math	C.Math	C.Math
14	812421114022	MOHAMED ASHIQ K X	K.Moh	K.Moh	K.Moh	K.Moh	K.Moh	K.Moh	K.Moh	K.Moh	K.Moh	K.Moh
15	812421114023	MOHAMED NAFEEZ. J	J.Moh	J.Moh	J.Moh	J.Moh	J.Moh	J.Moh	J.Moh	J.Moh	J.Moh	J.Moh
16	812421114024	NAVIN RT	N.Nav	N.Nav	N.Nav	N.Nav	N.Nav	N.Nav	N.Nav	N.Nav	N.Nav	N.Nav
17	812421114025	PRAVEEN K	P.Prav	P.Prav	P.Prav	P.Prav	P.Prav	P.Prav	P.Prav	P.Prav	P.Prav	P.Prav
18	812421114027	SANTHOSH I	I.Santh	I.Santh	I.Santh	I.Santh	I.Santh	I.Santh	I.Santh	I.Santh	I.Santh	I.Santh
19	812421114032	WAHSIM.M	M.Wah	M.Wah	M.Wah	M.Wah	M.Wah	M.Wah	M.Wah	M.Wah	M.Wah	M.Wah
20	812421114033	YOGESH.C	C.Yog	C.Yog	C.Yog	C.Yog	C.Yog	C.Yog	C.Yog	C.Yog	C.Yog	C.Yog
21	812421114301	ABDULL RAHMAN M	M.Abd	M.Abd	M.Abd	M.Abd	M.Abd	M.Abd	M.Abd	M.Abd	M.Abd	M.Abd
22	812421114302	ABISHEK B X	B.Abis	B.Abis	B.Abis	B.Abis	B.Abis	B.Abis	B.Abis	B.Abis	B.Abis	B.Abis
23	812421114303	ARAVIND E	E.Arav	E.Arav	E.Arav	E.Arav	E.Arav	E.Arav	E.Arav	E.Arav	E.Arav	E.Arav
24	812421114304	AZEES A	A.Aze	A.Aze	A.Aze	A.Aze	A.Aze	A.Aze	A.Aze	A.Aze	A.Aze	A.Aze
25	812421114305	DAKSESH VSB	V.Dak	V.Dak	V.Dak	V.Dak	V.Dak	V.Dak	V.Dak	V.Dak	V.Dak	V.Dak
26	812421114306	GINO ALEXANDER V	V.Gin	V.Gin	V.Gin	V.Gin	V.Gin	V.Gin	V.Gin	V.Gin	V.Gin	V.Gin

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27	812421114308	HARIHARAN K	Klas	Klas	Klas	Klas	Klas	Klas	Klas	Klas	Klas	Klas	Klas
28	812421114309	JAMBUKESHWARAN S	S.J.	S.J.	S.J.	S.J.	S.J.	S.J.	S.J.	S.J.	S.J.	S.J.	S.J.
29	812421114310	JASIM AHAMED N	N. J.	N. J.	N. J.	N. J.	N. J.	N. J.	N. J.	N. J.	N. J.	N. J.	N. J.
30	812421114311	JOYAL MATHEW RAJ J	S.S.	S.S.	S.S.	S.S.	S.S.	S.S.	S.S.	S.S.	S.S.	S.S.	S.S.
31	812421114313	KISHORE U	U.K.	U.K.	U.K.	U.K.	U.K.	U.K.	U.K.	U.K.	U.K.	U.K.	U.K.
32	812421114314	MARTIN I	I.M.	I.M.	I.M.	I.M.	I.M.	I.M.	I.M.	I.M.	I.M.	I.M.	I.M.
33	812421114315	MOHAMED ABDUL KADER BASITH S	S.A.K.	S.A.K.	S.A.K.	S.A.K.	S.A.K.	S.A.K.	S.A.K.	S.A.K.	S.A.K.	S.A.K.	S.A.K.
34	812421114316	MOHAMED ASLAM J	A.S.	A.S.	A.S.	A.S.	A.S.	A.S.	A.S.	A.S.	A.S.	A.S.	A.S.
35	812421114317	MOHAMED IMRAN A	A.M.	A.M.	A.M.	A.M.	A.M.	A.M.	A.M.	A.M.	A.M.	A.M.	A.M.
36	812421114318	MOHAMED IRFAN M	M.I.	M.I.	M.I.	M.I.	M.I.	M.I.	M.I.	M.I.	M.I.	M.I.	M.I.
37	812421114319	MOHAMMED NOWFAL M	M.N.	M.N.	M.N.	M.N.	M.N.	M.N.	M.N.	M.N.	M.N.	M.N.	M.N.
38	812421114320	NAVEENKUMAR S	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.	S.N.
39	812421114321	NISHANTH VR	V.R.	V.R.	V.R.	V.R.	V.R.	V.R.	V.R.	V.R.	V.R.	V.R.	V.R.
40	812421114322	PRADEEP ALDOH P	P.A.	P.A.	P.A.	P.A.	P.A.	P.A.	P.A.	P.A.	P.A.	P.A.	P.A.
41	812421114323	RAGUL ROSHAN M	M.R.	M.R.	M.R.	M.R.	M.R.	M.R.	M.R.	M.R.	M.R.	M.R.	M.R.
42	812421114324	RAMACHANDRAN C	C.R.	C.R.	C.R.	C.R.	C.R.	C.R.	C.R.	C.R.	C.R.	C.R.	C.R.
43	812421114325	SURYA NARAYANAN A	A.S.	A.S.	A.S.	A.S.	A.S.	A.S.	A.S.	A.S.	A.S.	A.S.	A.S.
44	812421114326	THIRUVARUTSELVAN S	S.T.	S.T.	S.T.	S.T.	S.T.	S.T.	S.T.	S.T.	S.T.	S.T.	S.T.
45	812421114327	VEERAPANDIYAN R	R.V.	R.V.	R.V.	R.V.	R.V.	R.V.	R.V.	R.V.	R.V.	R.V.	R.V.
46	812421114328	VIGNESHWARAN M	M.V.	M.V.	M.V.	M.V.	M.V.	M.V.	M.V.	M.V.	M.V.	M.V.	M.V.
47	812421114329	YASWANTH X S	S.Y.	S.Y.	S.Y.	S.Y.	S.Y.	S.Y.	S.Y.	S.Y.	S.Y.	S.Y.	S.Y.
48	812421114330	YENISH A	A.Y.	A.Y.	A.Y.	A.Y.	A.Y.	A.Y.	A.Y.	A.Y.	A.Y.	A.Y.	A.Y.
Total No Students Presents			47	47	48	48	48	48	47	47	47	47	47
Total No Students Absent			01	01	0	0	0	0	01	01	01	01	01
Signature Course Coordinator													

1. K. A. [Signature]
 2. C. [Signature]
 Course Coordinator

[Signature]

[Signature]
 Principal

[Signature]
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DEPARTMENT OF MECHANICAL ENGINEERING and in association with LIFT INDIA (Life Intensive Formation of Trust)

Name: _____
Roll No: _____

Value Added Course
Hands-on training on Electric Vehicles (EV)

Date: 07.10.2023
Max.Marks: 50

1) Allow the current to flow from the alternator to the battery but not in the opposite direction by use of

- 1) Triode
- 2) Capacitor
- 3) Insulator
- 4) Diode

2) The brushes a dynamo are made of

- 1) Aluminium
- 2) Carbon
- 3) Copper
- 4) Brass

3) What is the main cause of battery failures?

- 1) Container failure
- 2) Vent cap loose
- 3) High electrolyte levels
- 4) Incorrectly mixed electrolyte

4) Brushless DC motor are powered by

- 1) Three phase AC
- 2) Single phase AC
- 3) Direct current
- 4) Two phase AC

5) Speed of motor are controlled by

- 1) Current
- 2) Voltage
- 3) Power
- 4) Capacity

6) Torque of motor is controlled by

- 1) Current
- 2) Voltage
- 3) Power
- 4) Capacity

7) Automatic Scooters have

- 1) Centrifugal clutch
- 2) Continuous variable Transmission
- 3) Belt drive
- 4) All of the above

8) Which among the following is not load on motor in an EV?

- 1) Vehicle and rider weight
- 2) Terrain gradient
- 3) Wind speed
- 4) Rolling resistance

9) For a 48v 20Ah battery pack, How many 9Wh cells be required?

- 1) 92
- 2) 97
- 3) 102
- 4) 107

10) For electricity-water analogy, voltage is denoted by

- 1) Pressure head
- 2) Potential head
- 3) Vapour head
- 4) None of the above

11) Which among the following is not a major component in electric bikes?

- 1) Battery
- 2) Motor
- 3) Controller
- 4) Charger

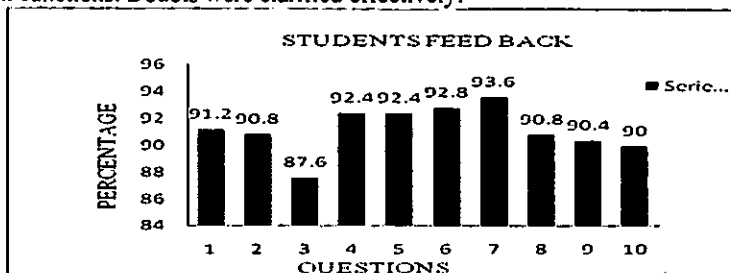
12) EV level 1 charger is

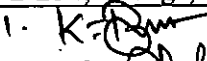
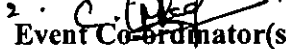
- 1) Single phase AC
- 2) Three phase AC
- 3) High voltage DC
- 4) None of the above



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- 13) Fast charging stations are
 1) Single phase AC 2) Three phase AC 3) High voltage DC 4) None of the above
- 14) Hub motors are best suited for
 1) Electric bikes or scooters 2) Electric motorcycles 3) Electric cars 4) Electric buses
- 15) How are the cell connected in a battery?
 1) One after the other
 2) Except one
 3) Only first and last
 4) Any two
- 16) The storage battery generally used in electric power station is _____
 1) Nickel-cadmium battery
 2) Zinc carbon battery
 3) Lead-acid battery
 4) None of the above
- 17) Battery charging equipment is generally installed
 1) In well ventilated location
 2) In clean and dry place
 3) As near as practical to the battery being charged
 4) In location having all above features
- 18) Which strategy is not used in Energy management strategy system
 1) Optimization based
 2) Rule based
 3) Global optimization strategy
 4) Regression method
- 19) High specific energy, high specific power, long cycle life, high-energy efficiency, quick recharge, maintenance free characteristics, cost effectiveness, and environmental friendliness are the features of _____
 1) Ultracapacitor
 2) Battery
 3) Fuel cell
 4) Flywheel
- 20) If a battery is to be charged at a much higher rate as compared to normal charging rate, the charging should be restricted to
 1) 95% of the capacity of battery
 2) 80% of the capacity of battery
 3) 55% of the capacity of battery
 4) 35% of the capacity of battery
- 21) The terminal voltage when the battery is being charged decreases with
 1) Increasing temperature
 2) Increasing charging rate
 3) Increasing stage of charge
 4) All of the above
- 22) Electric vehicle & hybrid vehicle have following components common except _____
 1) Battery
 2) ECU
 3) Generator
 4) Internal combustion engine
- 23) A fuel cells convertsenergy into electrical energy
 1) Mechanical
 2) Magnetic
 3) Solar
 4) Chemical
- 24) Which of the following material is used in solar cells?
 1) Barium
 2) Silicon
 3) Silver
 4) Selenium
- 25) Which of the following is not a part of regulated DC power supply?
 1) Rectifier 2) Filters 3) Oscillators 4) Regulator

Report on the Event
Department of Mechanical Engineering

S.No	Description	Comments																												
1	Type of Event	Value added course																												
2	Title of the Event	Hands-on training on "Electric Vehicles" (EV)																												
3	Date & Day of the Event	03.10.2023 to 07.10.23 Time: 9.15 AM to 4.50 PM																												
4	Venue	Metrology and Measurements laboratory																												
5	Name of the resource person(s)	Mr. K.C. Tamil Venthan and Mrs. S. Pooja																												
6	Details of resource person(s)	Director, LIFT INDIA (Life Intensive Formation of Trust).																												
7	No. of participants	48																												
8	Event Co-Ordinator(s)	Mr. K. Baskar and Mr. C. Manikandan.																												
9	Objective(s) of the Event	1. To learn the basics of electric vehicles. 2. To learn the various components used in the Electric Vehicle. 3. To learn the step-by-step procedure to disassemble and assemble of electric scooter components.																												
10	Topic(s) Covered	4. AC to DC Converter & Motor Speed Control System using (MOSFET) 5. DC to AC Inverters, PWM, Voltage boost & Stepper Motor Control Systems. 6. Servo Motor Speed Control Using ARDUINO & Embedded C program. 7. Cell in Series & Parallel Connection, Volt & Amp., Solar Energy Induction Motor & Battery Charger Assembling. 8. E-Bike assembling and dismantling, Repair, Trouble Shooting & Servicing.																												
11	Feedback given by participants	Students were satisfied with the training course content delivered by the resource person. It was clear and easy to understand of various components and their functions. Doubts were clarified effectively. <div style="text-align: center;">  <p>STUDENTS FEED BACK</p> <table border="1"> <thead> <tr> <th>Questions</th> <th>Percentage</th> </tr> </thead> <tbody> <tr><td>1</td><td>91.2</td></tr> <tr><td>2</td><td>90.8</td></tr> <tr><td>3</td><td>87.6</td></tr> <tr><td>4</td><td>92.4</td></tr> <tr><td>5</td><td>92.4</td></tr> <tr><td>6</td><td>92.8</td></tr> <tr><td>7</td><td>93.6</td></tr> <tr><td>8</td><td>90.8</td></tr> <tr><td>9</td><td>90.4</td></tr> <tr><td>10</td><td>90</td></tr> </tbody> </table> </div> <p>Q1. The lecture content met your expectation Q2. The program exposed you to new knowledge and practices Q3. The lecture was clear and easy to understand Q4. The resource person encouraged interaction and was helpful Q5. How much interesting this session was for you? Q6. What is your opinion about the resource person? Q7. How relevant was the content discussed by the speaker? Q8. How was your preparation about the topic before the guest lecture? Q9. Overall effectiveness of the lecture Q10. The program is also helpful to gain knowledge beyond the curriculum and syllabus</p>	Questions	Percentage	1	91.2	2	90.8	3	87.6	4	92.4	5	92.4	6	92.8	7	93.6	8	90.8	9	90.4	10	90						
Questions	Percentage																													
1	91.2																													
2	90.8																													
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6	92.8																													
7	93.6																													
8	90.8																													
9	90.4																													
10	90																													
12	Abstract of faculty feedback	The staff members were satisfied with the value-added course and the resource person handled all the sessions very interactively. The students were benefited and able to construct electric vehicle circuits.																												
13	Feedback by HoD	The 5 days were effectively utilized by the participants to learn the various electric vehicle components and their functions. There were 2 projects per day done by a group having 5 members. It was more interesting and useful for their future career. This training program will be effectively reflected for mini-project as well as final-year projects.																												
14	Outcome(s) of this Event	1. Students are able to construct motor control circuits. 2. Students are able to disassemble and assemble an electric scooter.																												
15	PO & PSO Mapping:	<table border="1"> <thead> <tr> <th>PO1</th> <th>PO2</th> <th>PO3</th> <th>PO4</th> <th>PO5</th> <th>PO6</th> <th>PO7</th> <th>PO8</th> <th>PO9</th> <th>PO10</th> <th>PO11</th> <th>PO12</th> <th>PSO1</th> <th>PSO2</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>M</td> <td>H</td> <td>-</td> <td>-</td> <td>M</td> <td>H</td> <td>-</td> <td>M</td> <td>-</td> <td>-</td> <td>-</td> <td>H</td> <td>M</td> </tr> </tbody> </table> <p>L-Low, H-High, M-medium</p>	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	H	M	H	-	-	M	H	-	M	-	-	-	H	M
PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2																	
H	M	H	-	-	M	H	-	M	-	-	-	H	M																	

1. 
 2. 
 Event Co-ordinator(s)

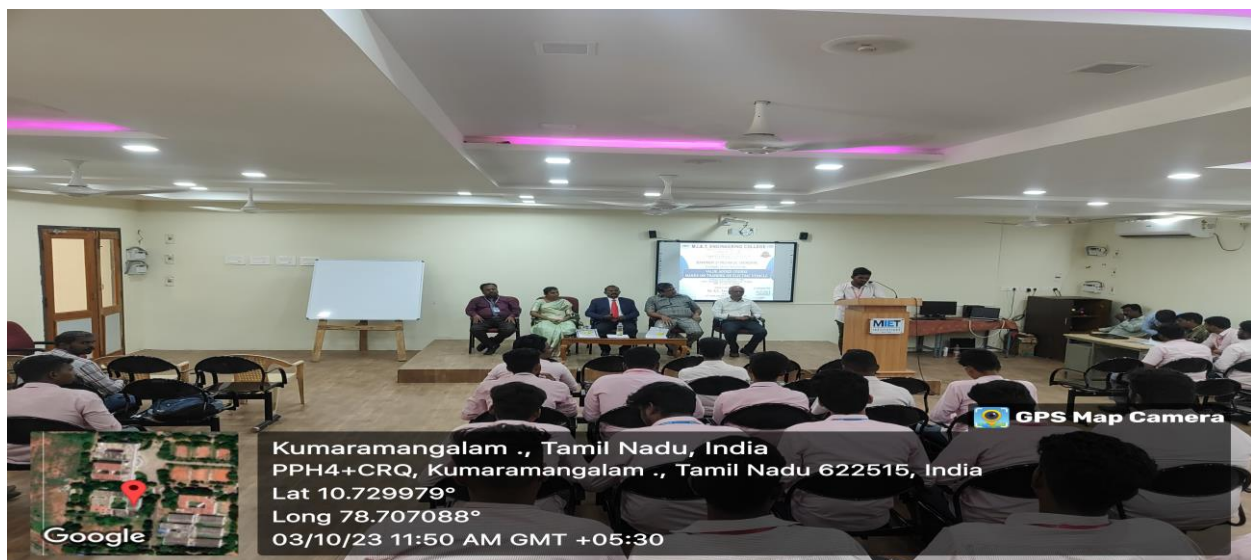

 HoD
 09/10


 Principal

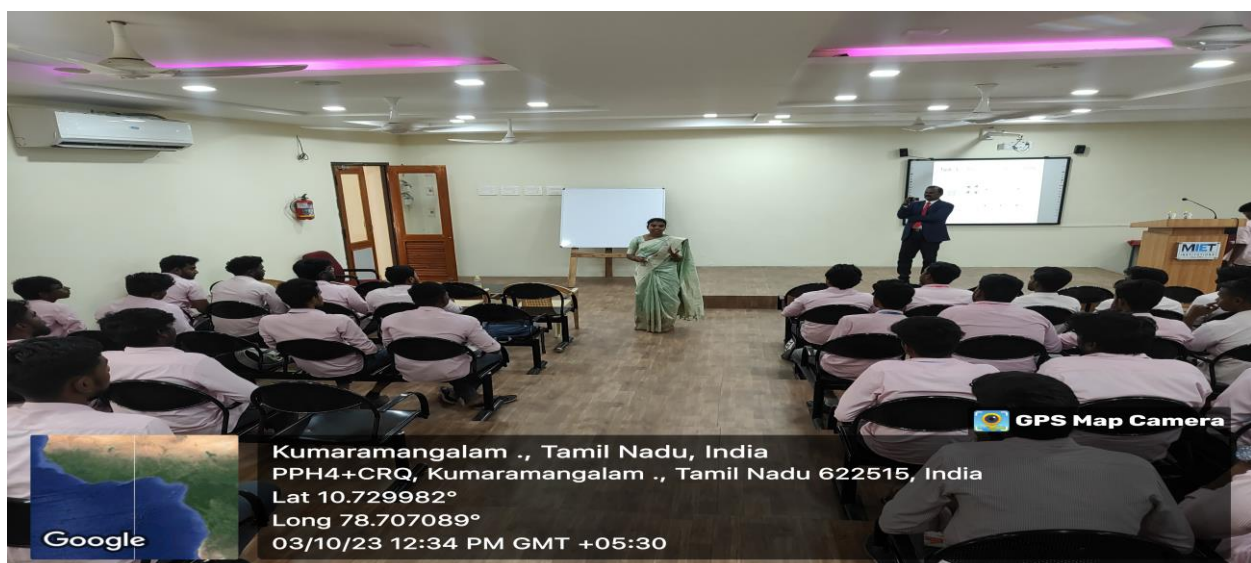
Geo Tagged Photos :(minimum four photos with caption)



Welcome addressing by our student Mr. Hariharan.K, III year Mechanical Engineering.



Introduction to Chief Guest by Mr.Balakumaran.K, III year Mechanical Engineering.



Resource person Mr. K.C. Tamil Venthan and Mrs. S. Pooja handling value added course to the students.



Course feedback is given by Mr. Yogesh.C, III year Mechanical Engineering.



Certificate issued for successfully course completed students by our beloved principal, our HoD and resource persons.


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DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course

Hands-on training on Electric Vehicles (EV)

Participant Feedback Form

*Thank you for taking the time to fill in this form.
 Your answers will be used to help us improve future activities.*

Program on		Hands-on training on Electric Vehicles (EV)				
Date (s)& Time		03/10/2023 to 07/10/2022 (Total Hours = 30)				
Venue		Metrology and Measurements Laboratory, D-Block, M.I.E.T. Engineering College.				
Resource Person		Mr. K.C. Tamil Venthan, Director, LIFT INDIA (Life Intensive Formation of Trust).				
Rating		E: Excellent		V: Very Good	G: Good	
		S: Satisfactory		N: Not Satisfactory		
S.No	Parameter	Please tick in the appropriate columns				
		E	VG	G	S	NS
1	Contents	/				
2	Presentation		/			
3	Materials/ Tools used			/		
4	Organization of the talk		/			
5	Usefulness	/				
6	Relevance of the topic discussed		/			
7	Time Management	/				
8	Making the session Interesting	/				
9	Arrangements (venue suitability, access and refreshments)			/		
10	Overall rating		/			
Topic you liked the most		E - vehicle, controller				
Suggestions to improve the program further		To split up 2 members one Dot board to more components and quality products				
Date	7/10/23	Signature & Name (Optional)		K. Mohamed Ashiq		

K. Ashiq
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Participant Feedback Form

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 Your answers will be used to help us improve future activities.*

Program on		Hands-on training on Electric Vehicles (EV)				
Date (s)& Time		03/10/2023 to 07/10/2022 (Total Hours = 30)				
Venue		Metrology and Measurements Laboratory, D-Block, M.I.E.T. Engineering College.				
Resource Person		Mr. K.C. Tamil Venthan, Director, LIFT INDIA (Life Intensive Formation of Trust).				
Rating		E: Excellent		V: Very Good	G: Good	
		S: Satisfactory		N: Not Satisfactory		
S.No	Parameter	Please tick in the appropriate columns				
		E	VG	G	S	NS
1	Contents	✓				
2	Presentation	✓				
3	Materials/ Tools used		✓			
4	Organization of the talk	✓				
5	Usefulness		✓			
6	Relevance of the topic discussed	✓				
7	Time Management			✓		
8	Making the session Interesting	✓				
9	Arrangements (venue suitability, access and refreshments)	✓				
10	Overall rating	✓				
Topic you liked the most		<i>practical session</i>				
Suggestions to improve the program further		<i>-need more time</i>				
Date	<i>7/10/23</i>	Signature & Name (Optional)		<i>[Signature]</i>		

[Signature]
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3	Materials/ Tools used			✓		
4	Organization of the talk	✓				
5	Usefulness	✓				
6	Relevance of the topic discussed		✓			
7	Time Management	✓				
8	Making the session Interesting	✓				
9	Arrangements (venue suitability, access and refreshments)		✓			
10	Overall rating	✓				
Topic you liked the most		BUZZER				
Suggestions to improve the program further		Very few Quality equipments are provided				
Date	07/10/23	Signature & Name (Optional)			S. Yashwanth	

S. Yashwanth
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5	Usefulness		✓			
6	Relevance of the topic discussed		✓			
7	Time Management		✓			
8	Making the session Interesting		✓			
9	Arrangements (venue suitability, access and refreshments)		✓			
10	Overall rating		✓			
Topic you liked the most						
Suggestions to improve the program further		Some Components are worked not perfectly. So, please changed that next time.				
Date	07/10/2023	Signature & Name (Optional)	N. JASIM AHAMED			

N. Jasim Ahamed
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3	Materials/ Tools used					✓
4	Organization of the talk	✓				
5	Usefulness	✓				
6	Relevance of the topic discussed		✓			
7	Time Management		✓			
8	Making the session Interesting	✓				
9	Arrangements (venue suitability, access and refreshments)	✓				
10	Overall rating		✓			
Topic you liked the most						
Suggestions to improve the program further						
Date	07/10/23	Signature &Name (Optional)			M.MOHAMED IRFAN	

M. Mohamed Irfan
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4	Organization of the talk		/			
5	Usefulness	/				
6	Relevance of the topic discussed	/				
7	Time Management	/				
8	Making the session Interesting	/				
9	Arrangements (venue suitability, access and refreshments)		/			
10	Overall rating	/				
Topic you liked the most						
Suggestions to improve the program further		Some components not working properly next time give best components				
Date	07-10-2023	Signature & Name (Optional)			K. Harish.	

K. Harish
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4	Organization of the talk		/			
5	Usefulness	/				
6	Relevance of the topic discussed	/				
7	Time Management	/				
8	Making the session Interesting	/				
9	Arrangements (venue suitability, access and refreshments)		/			
10	Overall rating	/				
Topic you liked the most		Temperature Controller & Regulator Power Supply				
Suggestions to improve the program further		Equipments availability not satisfactory & Batch Separation also.				
Date	07/10/23	Signature & Name (Optional)			K. Venkatesh	


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3	Materials/ Tools used			✓		
4	Organization of the talk		✓			
5	Usefulness	✓				
6	Relevance of the topic discussed		✓			
7	Time Management	✓				
8	Making the session Interesting		✓			
9	Arrangements (venue suitability, access and refreshments)	✓				
10	Overall rating		✓			
Topic you liked the most		Temperature Controller using IOK NTC				
Suggestions to improve the program further						
Date	07.10.2023	Signature & Name (Optional)			1. <i>M. S. Srinivasan</i> (M. S. Srinivasan)	

M. S. Srinivasan
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- 2.
- 3.
- 4.
- 5.



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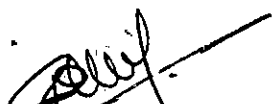
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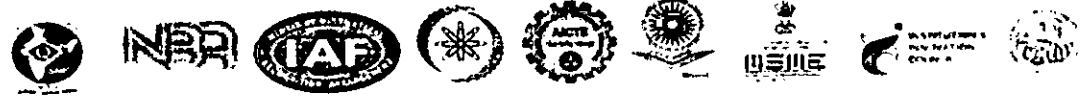
This is to certify that Mr. YENISHA of III-Year B.E. -

Mechanical Engineering has successfully completed the five days (30 hours) Value Added Course "Hands-on Training on Electric Vehicles (EV)" held from 03/10/2023 to 07/10/2023 and is hereby awarded the course completion certificate.


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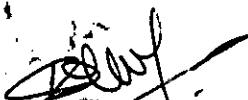



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This is to certify that Mr. RAGUL ROSHAN M of III-Year B.E. - Mechanical Engineering has successfully completed the five days (30 hours) Value Added Course "Hands-on Training on Electric Vehicles (EV)" held from 03/10/2023 to 07/10/2023 and is hereby awarded the course completion certificate.


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Mechanical Engineering has successfully completed the five days (30 hours) Value Added

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This is to certify that Mr. SURYA NARAYANAN A of III Year B.E. -

Mechanical Engineering has successfully completed the five days (30 hours) Value Added

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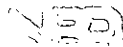
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This is to certify that Mr. THIRUVARUTSELVAN S of III-Year B.E. Mechanical Engineering has successfully completed the five days (30 hours) Value Added Course "Hands-on Training on Electric Vehicles (EV)" held from 03/10/2023 to 07/10/2023 and is hereby awarded the course completion certificate


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This is to certify that Mr. VEERAPANDIYAN-R of III Year B.E. Mechanical Engineering has successfully completed the five days (30 hours) Value Added Course "Hands-on Training on Electric Vehicles (EV)" held from 03/10/2023 to 07/10/2023 and is hereby awarded the course completion certificate.


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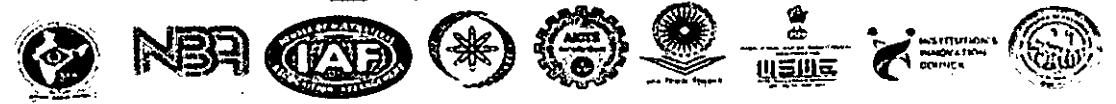
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This is to certify that Mr. YASWANTH S of III-Year B.E. - Mechanical Engineering has successfully completed the five days (30 hours) Value Added Course "Hands-on Training on Electric Vehicles (EV)" held from 03/10/2023 to 07/10/2023 and is hereby awarded the course completion certificate


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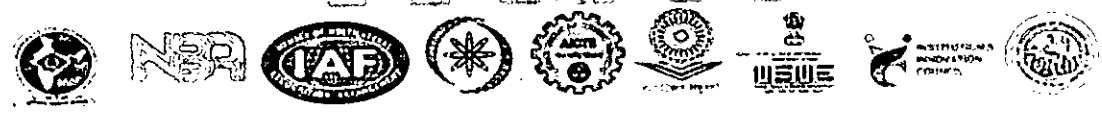
COURSE COMPLETION CERTIFICATE

This is to certify that Mr. MOHAMED ASLAM J of III Year B.E. -
Mechanical Engineering has successfully completed the five days (30 hours) Value Added
Course "Hands-on Training on Electric Vehicles (EV)" held from 03/10/2023 to 07/10/2023
and is hereby awarded the course completion certificate

HOD/MECH
(Dr. B. Selvam)

DIRECTOR/LIFT INDIA
(K.C. Tamil Venthana)

PRINCIPAL
M.I.E.T. ENGINEERING COLLEGE
GUNDUR, TIRUCHIRAPALLI - 620 007
PRINCIPAL
(Dr. A. Naveen Sait)





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Trichy-Pudukkottal Main Road, Gundur, Tiruchirappalli-620 007



in association with  **LIFT INDIA**

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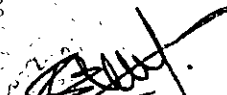
COURSE COMPLETION CERTIFICATE

This is to certify that Mr. MOHAMED IMRAN A of III-Year B.E. -



Mechanical Engineering has successfully completed the five days (30 hours) Value Added

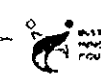
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HOD/MECH
(Dr. B. Selvam)


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COURSE COMPLETION CERTIFICATE

This is to certify that Mr. MOHAMED IRFAN M of III Year B.E. -
Mechanical Engineering has successfully completed the five days (30 hours) Value Added
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HOD/MECH
(Dr. B. Selvam)


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Trichy - Pudukkottai Road, Tiruchirappalli - 620 007. Phone: 0431-2660 303
Website: www.miet.edu, E-mail: principalengg@miet.edu, contact@miet.edu



Date: 11.10.2023

To

The Principal
M.I.E.T Engineering College,
Trichy - 620007.

Respected Sir,

Sub: Permission to conduct the Value Added Course - Reg.

We have planned to conduct the value added course for the students of Mechanical Engineering from 25.10.2023 to 31.10.2023.

Name of the Value Added Course	Resource Persons	Course Coordinator's
MEP - HVAC Design Training	1. Er. A.IMRAN SHERIFF BIM Manager, 2. Er.P.KAMIL Senior Design Engineer, Unique MEP Engineering Academy Pvt. Ltd. Chennai.	Dr.G.PRANESH & Mr. R.MANICKAM

So kindly give us permission to conduct the course and to utilize the A Block Seminar Hall and CAD/CAM Laboratory.

Thanking you,

1. J. P. M. M. / 11.10.23

2. A. M. / 11/10/23

Course Coordinator's

HoD Mech
11/10/23

Principal 13/10/23

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Website: www.miet.edu, E-mail: principal@miet.edu, contact@miet.edu



DEPARTMENT OF MECHANICAL ENGINEERING

CIRCULAR

Date: 11.10.2023

Sub: Value Added Course – MEP - HVAC Design Training

It is planned to conduct the value-added course for the Mechanical Engineering students. The value added course is designed and offered by M.I.E.T. Engineering College and Unique MEP Engineering Academy Pvt. Ltd for the benefit of Mechanical Engineering students.

The Value Added Course will cover the following components:

- ❖ 36 hours of lectures, including theory and practical HVAC classes.
- ❖ Course material will be provided to all enrolled students.
- ❖ HVAC software will be installed on students' laptops.
- ❖ Performance evaluations will be conducted.
- ❖ Certificates will be distributed upon successful completion of the course.

Students those who are willing to attend the MEP - HVAC Design Training - Value Added Course can enroll to the course coordinators on or before 20.10.2023.

Name of the Value Added Course	Resource Persons	Course Coordinator
MEP - HVAC Design Training	1. Er. A.IMRAN SHERIFF BIM Manager, 2. Er.P.KAMIL Senior Design Engineer, Unique MEP Engineering Academy Pvt. Ltd. Chennai.	Dr.G.PRANESH & Mr. R.MANICKAM
Commencement of course from 25.10.2023 to 31.10.2023		
Time: 09.15 AM to 04.50 PM		

J.D.M.M.
11/10/23
Course Coordinator's

[Signature]
IQAC Coordinator

[Signature]
HoD/Mech
11/10/23

[Signature]
Principal
16/10/23

[Signature]
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M.I.E.T. ENGINEERING COLLEGE
GUNDUR, TIRUCHIRAPPALLI - 620 007



M.I.E.T.

Engineering College, Trichy



DEPARTMENT OF MECHANICAL ENGINEERING

Cordially invites you to the

VALUE ADDED COURSE PROGRAMME

Date: 25/10/2023- 10.00 a.m, Seminar Hall (B Block)



Er.A.Mohamed Yunus

Chairman, M.I.E.T. Engineering College, Trichy

will deliver the presidential address

Mr. A.Imran Sheriff,

BIM Manager,

Mr. P.Kamil,

Senior Design Engineer,

Unique MEP Engineering Academy Pvt. Ltd. Chennai

will deliver the special lecture on

“MEP - HVAC Design & Training”

Dr.A.Naveen Sait

Principal, M.I.E.T. Engineering College, Trichy

will offer the felicitation

Coordinator's

Dr.G. Pranesh

Mr.R.Manickam

AP/Mech

(Signature)
PRINCIPAL

**M.I.E.T. ENGINEERING COLLEGE
GUNDUR, TIRUCHIRAPALLI - 620 007**

**Dr. B. Selvam
HOD- MECH**





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Website:www.miet.edu, E-mail:principalengg@miet.edu, contact@miet.edu



Department of Mechanical Engineering

Value Added Course

MEP - HVAC Design & Training - Syllabus

Name of the course	: MEP - HVAC Design & Training - Value Added Course
Course Code	: ME23242
Academic Year	: 2023 - 2024
Course Coordinators	: Dr.G.Pranesh, Mr. R.Manickam, AP/Mech.
Total Hours	: 36 Hours
Date	: 25.10.2023 to 31.10.2023

CURRICULUM FOR MEP - HVAC DESIGN & TRAINING

S.No	Topics
1.	HVAC - An Introduction
2.	Basics / Fundamentals of HVAC System
3.	Psychrometrics
4.	Refrigeration Cycle
5.	Heat Load Calculation (E20 Form)
6.	Types of Air Conditioning System
7.	Ducting
8.	Exhaust / Ventilation System
9.	Toilet ventilation system
10.	Commercial Kitchen Exhaust system
11.	Car Parking ventilation system
12.	Chilled Water / Hydronic Piping System
13.	Variable Refrigerant Flow (VRF) System Design , VRF Software

1. *A.M.M.*
2. *A.M.*
20/10/23

Course Coordinator's

N. Sub
IQAC Coordinator

[Signature]
HOB

[Signature]
Principal

[Signature]
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Department of Mechanical Engineering

Value Added Course

Topic: MEP - HVAC Design & Training

Name of the course :	MEP - HVAC Design & Training - Value Added Course
Course Code :	ME23242
Academic Year :	2023 - 2024
Course Coordinators :	Dr.G.Pranesh, Mr. R.Manickam, AP/Mech
Total Hours :	36 Hours
Date :	25.10.2023 to 31.10.2023

Time table

Day	Date	9.15 to 10.55		11.15 - 12:55		01:45 - 03:15		03:15 - 04:50
Day 1	25.10.2023	Inauguration	Tea Break	Lecture - 1	Lunch Break	Lecture - 2	Tea Break	Lecture - 3
Day 2	26.10.2023	Lecture - 4		Lecture - 5		Lecture - 6		Lecture - 7
Day 3	27.10.2023	Lecture - 8		Lecture - 9		Lecture - 10		Lecture - 11
Day 4	28.10.2023	Lecture - 12		Lecture - 13		Lecture - 14		Lecture - 15
Day 5	30.10.2023	Lecture - 16		Lecture - 17		Lecture - 18		Lecture - 19
Day 6	31.10.2023	Lecture - 20		Lecture - 21		Lecture - 22		Lecture - 23

Lesson Plan

Day	Lecture	Topics Covered
Day 1	Lecture - 1	An Introduction to HVAC
	Lecture - 2	Basics / Fundamental of HVAC
	Lecture - 3	Psychometric
Day 2	Lecture - 4	Refrigeration Cycle
	Lecture - 5	Types of Air Conditioning Systems
	Lecture - 6	E - 20 sheet


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	Lecture - 7	E - 20 sheet
Day 3	Lecture - 8	E - 20 Practice
	Lecture - 9	HAP Software
	Lecture - 10	HAP software
	Lecture - 11	HAP Software - Practice session
Day 4	Lecture - 12	Air Terminals - Types and It's Sizing - Using Data Sheet and BETA Software
	Lecture - 13	Ducting - Types, Fittings.
	Lecture - 14	Ducting - Sizing (Formula , Chart and Software)
	Lecture - 15	Toilet Ventilation
Day 5	Lecture - 16	Kitchen Ventilation
	Lecture - 17	Car parking Ventilation
	Lecture - 18	Practice - Ducting and Ventilation
	Lecture - 19	VRF & Chillers
Day 6	Lecture - 20	HVAC Drafting - Air Terminal and Ducting
	Lecture - 21	HVAC Drafting - Air Terminal and Ducting
	Lecture - 22	HVAC Drafting - Air Terminal and Ducting
	Lecture - 23	HVAC Drafting - Air Terminal and Ducting

S. J. mmy
S. J. mmy
20/10/23
Course Coordinators

N. V. S.
IQAC Coordinator

S. J. mmy
HoD

S. J. mmy
Principal

S. J. mmy
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UNIQUE MEP
ENGINEERING ACADEMY Pvt. Ltd.,
Finishing School for Engineering Graduates



Er. P. KAMIL

Senior Design Engineer

UNIQUE MEP ENGINEERING ACADEMY PVT. LTD.,

EXPERIENCE

- Preparation of Complete Architecture, MEP, and Structure Families as Per Specifications and Catalogues
- Creating the MEP template as per specification
- Preparations of a Complete 3D Modeling Drawing as Per BIM (Building Information and Modeling)
- Check and show disconnects for duct, pipe, cable tray, conduit, and electrical to the MEP services.
- Preparation of M&E Coordination Layout Plan and Section Shop Drawing
- Co-ordinate with the architecture and MEP consultants to give error-less drawings to sub-contractors.
- Clash detection and coordination of all services in Revit and Navisworks
- Preparation of schedules in Revit MEP
- Preparation of a Bill of Quantities in Revit MEP
- Create families for the architecture and MEP models, the BMS, and the automation industry.
- In various projects, I managed the design coordination process, implementing faster and more accurate design standards, and reducing the number of conflicts during the construction phase.

SOFTWARE SKILLS

- **BIM software:** AutoCAD 2D and 3D, AutoCAD Revit Architecture, Revit MEP, Revit Structure and Navisworks Manage.
- **Mechanical Softwares :** Autocad, 2D and 3D Creo Solidworks, and Catia.
- **Visualization Softwares :** 3ds Max, Vray Lumion, Enscape, Rhino and Cross hopper
- **Graphic Design Softwares :** Photoshop, Lightroom, InDesign, After Effects, Premier Pro.
- **Project Planning & Management Softwares :** PPM Concept, Ms Project, Primavera.


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Er. A. IMRAN SHERIFF

BIM Manager

UNIQUE MEP ENGINEERING ACADEMY PVT.LTD.,

EXPERIENCE

- Managed the MEP engineering team to deliver projects on time and within budget, with a focus on safety, quality, and continuous improvement.
- Led design reviews for all new construction projects as well as existing facilities undergoing renovation or expansion.
- Developed project schedules using Microsoft Project software and ensured that they are realistic by coordinating with other departments such as finance, operations, etc., when necessary.
- Assisted in preparing bid documents for capital projects including preparation of specifications and drawings based upon approved plans and scope of work.
- Provided technical support during pre-construction meetings with contractors regarding contract requirements and reviewed contractor's shop drawings prior to submittal to ensure compliance with the approved plans & specifications.
- Created and implemented a process to monitor the status of all equipment, which resulted in an 85% decrease in downtime.
- Developed and maintained a comprehensive knowledge base for all systems that were monitored by the team
- Maintained relationships with vendors to ensure timely repairs when needed
- Assisted senior engineers on projects as needed; this included performing research and developing solutions
- Conducted regular maintenance on company's manufacturing equipment, including forklifts and cranes

A. Imran Sheriff
PRINCIPAL

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S

DEPARTMENT OF MECHANICAL ENGINEERING

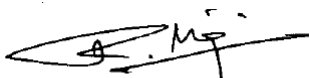
VAC ON MEP - HVAC DESIGN & TRAINING

Willingness Student List

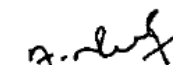
SL.NO	ROLL NO	STUDENT NAME
1.	E1202004	AJAYARAVINDARAJ D
2.	E1202006	AMJATH HUSSAIN N S
3.	E1202010	BALAJI PRASANNA V
4.	E1202011	BASSAM B
5.	E1202013	HAJI MOHAMED S
6.	E1202014	HARI PRASATH B
7.	E1202018	MOHAMED FAYIZ S
8.	E1202019	MOHAMED HASSAN DHANVEER Y
9.	E1202023	NAGENDRAN A
10.	E1202024	PUGAZHENTHI M
11.	E1202027	SHAJAKHAN S
12.	E1202030	SUBRA K
13.	E1202031	THOUFIQ UMAR S
14.	E1202034	YUVAPRASATH B
15.	E 2212043	ARUN S
16.	E 2212044	ARUN KUMAR A
17.	E 2212046	ASHIK FERAZ T M
18.	E 2212047	BHARATHVAJ S
19.	E 2212055	ENOCH DANIEL R
20.	E 2212056	GNANARAJ D
21.	E 2212061	IMAM KHAN R
22.	E 2212062	JAMAL MOHAMED ALI M H


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23.	E 2212064	JASEEM KHAN H
24.	E 2212066	JAYASURYA S
25.	E 2212067	JEEVANANDHAM S
26.	E 2212069	KAMESH M
27.	E 2212071	KISHORE HIRAN R
28.	E 2212073	LOGESH M
29.	E 2212074	LOGESWARAN R
30.	E 2212076	MADESHWAR R
31.	E 2212078	MANIKANDAN R
32.	E 2212081	MIRZA YUSUF ALI MIRZA ABBAS ALI
33.	E 2212082	MOHAMED ABITH A
34.	E 2212086	MOHAMED ASHIK S
35.	E 2212087	MOHAMMED ASHIK S
36.	E 2212088	MOHAMED ASHIQ M Y
37.	E 2212089	MOHAMED ASLAM H
38.	E 2212092	MOHAMED IMTHIYAS I
39.	E 2212096	MOHAMED SHAFEEQ I
40.	E 2212099	MOHAMED SUHAIL M
41.	E 2212101	NAVEEN RAJ B
42.	E 2212105	PANDIYARAJAN R
43.	E 2212109	PRAVIN JOSEPH S
44.	E 2212117	SHAFEEK AHAMED A
45.	E 2212120	SHRIVARSHAN B
46.	E 2212122	SOLOMON LAWRENCE B
47.	E 2212125	SURYA M
48.	E 2212127	VIGNESHKUMAR R
49.	E 2212128	VIGNESHVARA S
50.	E 2212129	VIJAY S
51.	E 2212131	YASIR M


Course Coordinator


HOD


Principal


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S

DEPARTMENT OF MECHANICAL ENGINEERING


VAC ON MEP - HVAC DESIGN & TRAINING

Students Name List

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5.	E1202013	HAJI MOHAMED S
6.	E1202014	HARI PRASATH B
7.	E1202018	MOHAMED FAYIZ S
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51.	E 2212131	YASIR M


Course Coordinator


HoB


Principal


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Accredited by NMAC, New Delhi

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Office - Park Road, Gundur, Tiruchirappalli - 620 007, Phone No: 475 2700 201
E-mail: principal@meiet.edu, principal@meiet.edu



Department of Mechanical Engineering

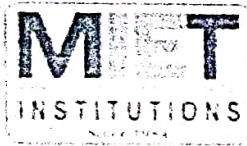
Value Added Course

MEP - HVAC Design & Training – Attendance Sheet

Name of the course :	MEP - HVAC Design & Training - Value Added Course
Course Code :	ME23242
Academic Year :	2023 - 2024
Course Coordinators :	Dr.G.Pranesh, Mr. R.Manickam, AP/Mech.
Total Hours :	36 Hours
Date :	25.10.2023 to 31.10.2023

SNo	Reg No	Name	25.10.2023	26.10.2023	27.10.2023	28.10.2023	30.10.2023	31.10.2023
1.	E1202004	AJAYARAVINDARAJ D	/	/	/	/	/	/
2.	E1202006	AMJATH HUSSAIN N S	/	/	/	/	/	/
3.	E1202010	BALAJI PRASANNA V	/	/	/	/	/	/
4.	E1202011	BASSAM B	/	AB	/	/	/	/
5.	E1202013	HAJI MOHAMED S	/	/	/	/	/	/
6.	E1202014	HARI PRASATH B	/	/	/	/	/	/
7.	E1202018	MOHAMED FAYIZ S	/	/	/	AB	/	/
8.	E1202019	MOHAMED HASSAN DHANVEER Y	/	/	/	/	/	/
9.	E1202023	NAGENDRAN A	/	/	/	/	/	/
10.	E1202024	PUGAZHENTHI M	/	/	/	/	/	/
11.	E1202027	SHAJAKHAN S	/	/	AB	/	/	/


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An ISO 9001:2015 Certified Institution
Recognized by UGC under section 2(F) & 12(B) of UGC Act, 1956.
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E-mail: principal@miect.ac.in, contact@miect.ac.in



12.	E1202030	SUBRA K	/	/	/	/	/	/
13.	E1202031	THOUFIQ UMAR S	/	/	/	/	/	/
14.	E1202034	YUVAPRASATH B	/	/	/	/	/	AB
15.	E 2212043	ARUN S	AB	/	/	/	/	/
16.	E 2212044	ARUN KUMAR A	/	/	/	/	/	/
17.	E 2212046	ASHIK FERAZ T M	/	/	/	/	/	/
18.	E 2212047	BHARATHVAJ S	/	/	/	/	/	/
19.	E 2212055	ENOCH DANIEL R	/	/	AB	/	/	/
20.	E 2212056	GNANARAJ D	/	/	/	/	/	/
21.	E 2212061	IMAM KHAN R	/	/	/	/	/	/
22.	E 2212062	JAMAL MOHAMED ALI M H	/	/	/	/	/	/
23.	E 2212064	JASEEM KHAN H	/	/	/	/	/	/
24.	E 2212066	JAYASURYA S	/	AB	/	/	/	/
25.	E 2212067	JEEVANANDHAM S	/	/	/	/	/	/
26.	E 2212069	KAMESH M	/	/	/	/	/	/
27.	E 2212071	KISHORE HIRAN R	/	/	/	/	/	/
28.	E 2212073	LOGESH M	/	/	/	/	/	/
29.	E 2212074	LOGESWARAN R	/	/	/	AB	/	/
30.	E 2212076	MADESHWAR R	/	/	/	/	/	/
31.	E 2212078	MANIKANDAN R	/	/	/	/	/	/
32.	E 2212081	MIRZA YUSUF ALI MIRZA ABBAS ALI	/	/	/	/	/	/
33.	E 2212082	MOHAMED ABITH A	/	/	/	/	/	/
34.	E 2212086	MOHAMED ASHIK S	/	/	/	/	/	/
35.	E 2212087	MOHAMMED ASHIK S	/	/	/	/	/	/
36.	E 2212088	MOHAMED ASHIQ M Y	/	/	/	/	/	/


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 (U.T. - PSE - 150 & M.T.E. Programme Accredited by NBA, New Delhi)



37.	E 2212089	MOHAMED ASLAM H	/	/	/	/	/	/
38.	E 2212092	MOHAMED IMTHIYAS I	/	AB	/	/	/	/
39.	E 2212096	MOHAMED SHAFEEQ I	/	/	/	/	/	/
40.	E 2212099	MOHAMED SUHAIL M	/	/	/	/	/	/
41.	E 2212101	NAVEEN RAJ B	/	/	/	/	/	/
42.	E 2212105	PANDIYARAJAN R	/	/	/	AB	/	/
43.	E 2212109	PRAVIN JOSEPH S	/	/	/	/	/	/
44.	E 2212117	SHAFEEK AHAMED A	/	/	/	/	/	/
45.	E 2212120	SHRIVARSHAN B	/	/	/	/	/	/
46.	E 2212122	SOLOMON LAWRENCE B	/	/	/	/	/	/
47.	E 2212125	SURYA M	/	/	/	/	/	/
48.	E 2212127	VIGNESHKUMAR R	/	/	AB	/	/	/
49.	E 2212128	VIGNESHVARA S	/	/	/	/	/	/
50.	E 2212129	VIJAY S	/	/	/	/	/	/
51.	E 2212131	YASIR M	/	/	/	/	/	/
Total No Students Presents			50	48	48	48	51	50
Total No Students Absent			01	03	03	03	0	01
Signature Course Coordinator			<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

[Signature]
 Course Coordinator

[Signature]
 HOB

[Signature]
 Principal

[Signature]
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COOLING AND DEHUMIDIFYING LOAD ESTIMATE

Estimated by: _____
 Dated: _____
 Job name: _____
 Address: _____
 Space used for: _____

Location: _____ Season: _____ Local time: _____

CONDITIONS	DB (°F)	WB (°F)	RH (%)	W (gr/lb)
Outside air				
Room				
Difference				

Room Length, ft. _____ Width, ft. _____ Sq.ft. x Height, ft. _____ Vol., cu.ft. _____
 Size _____ x _____ = _____

SENSIBLE HEAT						Btu./Hr.
SOLAR GAINS - GLASS						
glass	Sqft x		Solar gain x		Solar factor	
glass	Sqft x		Solar gain x		Solar factor	
glass	Sqft x		Solar gain x		Solar factor	
glass	Sqft x		Solar gain x		Solar factor	
glass	Sqft x		Solar gain x		Solar factor	
glass	Sqft x		Solar gain x		Solar factor	
glass	Sqft x		Solar gain x		Solar factor	
glass	Sqft x		Solar gain x		Solar factor	
glass	Sqft x		Solar gain x		Solar factor	
glass	Sqft x		Solar gain x		Solar factor	

OUTSIDE AIR (O.A.)

	Sqft x	People x	cfm/Sqft	cfm/person
--	--------	----------	----------	------------

TRANSMISSION GAINS - WALLS and ROOF						
Wall	Sqft x		ETD x		U value	
Wall	Sqft x		ETD x		U value	
Wall	Sqft x		ETD x		U value	
Wall	Sqft x		ETD x		U value	
Wall	Sqft x		ETD x		U value	
Wall	Sqft x		ETD x		U value	
Wall	Sqft x		ETD x		U value	
Wall	Sqft x		ETD x		U value	
Wall	Sqft x		ETD x		U value	
Roof, sun	Sqft x		ETD x		U value	
Roof,shaded	Sqft x		ETD x		U value	

INFILTRATION

	Vol/60 x	Air.Ch/hr.	
	Doors x	cfm/door	
	Crack x	cfm/ft	
	Exh. air		

TRANSMISSION GAINS - OTHER						
All Glass	Sqft x		TempDiff x		U value	
Non ac Partition	Sqft x		TempDiff x		U value	
Non ac Part.Glass	Sqft x		TempDiff x		U value	
Non ac Ceiling	Sqft x		TempDiff x		U value	
Non ac Floor	Sqft x		TempDiff x		U value	

NET OUTSIDE AIR
EFFECTIVE SHF AND ADP
 ESHF = $\frac{ERSH}{ERTH}$ = _____
 Ind. ADP _____ Sel. ADP = _____ °F

INFILTRATION & OUTSIDE AIR						
Infiltration	cfm x		Temp.Diff x		1.08	
Bypassed O.A.	cfm x		Temp.Diff x	BF x	1.08	

DEHUMIDIFIED AIR RISE
 = (1 - BF) x (Rm.DB - Sel.ADP)
 = _____
DEHUMIDIFIED AIR QUANTITY
 = Eff. Room Sensible Heat
 = 1.08 x Dehum. rise = _____ Cfm

INTERNAL HEAT						
People	Nos. x		Btu/Hr/ Person			
Power	H.P. x				2545	
Lights	W/kW x		Ballast factor x		3.41/3410	
Appliances	W/kW x		Usage factor x		3.41/3410	

Check Figures
 Sqft/Ton _____
 Cfm/sqft _____

EFFECTIVE ROOM SENSIBLE HEAT, ERSH						
Supply duct	Supply duct					
Heat Leak	Loss %		Fan. H.P. %		Safety Factor %	

Notes:

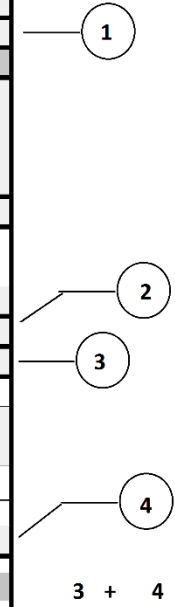
INTERNAL HEAT						
People	Nos. x		Btur/hour/person			
Infiltration	cfm x		GrainsDiff x		0.68	
Bypassed O.A.	cfm x		GrainsDiff x	BF x	0.68	
Steam	lb/hr x				1080	

EFFECTIVE ROOM LATENT HEAT, ERLH						
Supply duct	Supply duct					
Leak	Loss %				Safety Factor %	

EFFECTIVE ROOM TOTAL HEAT, ERTH

OUTSIDE AIR HEAT						
Sens.heat	cfm x		Temp.Diff x	(1 - BF) x	1.08	
Latent heat	cfm x		GrainsDiff x	(1 - BF) x	0.68	
Return duct	Return duct					
Heat Leak	Loss %		Pump H.P. %			

TONS OF REFRIGERATION _____ **GRAND TOTAL HEAT** _____



[Signature]
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COOLING AND DEHUMIDIFYING LOAD ESTIMATE

Estimated by: _____ Dated: _____ Job name: _____ Address: _____ Space used for: _____	Location: _____ Season: _____ Local time: _____
---	---

Room	Length, ft.	Width, ft.	Sq.ft. x	Height, ft.	Vol., cu.ft.
Size	x	=			

CONDITIONS	DB (°F)	WB (°F)	RH (%)	W (gr/lb)
Outside air				
Room				
Difference				

SENSIBLE HEAT						Btu./Hr.
SOLAR GAINS - GLASS						
glass	Sqft x	Solar gain x	Solar factor			
glass	Sqft x	Solar gain x	Solar factor			
glass	Sqft x	Solar gain x	Solar factor			
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glass	Sqft x	Solar gain x	Solar factor			
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glass	Sqft x	Solar gain x	Solar factor			
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glass	Sqft x	Solar gain x	Solar factor			
glass	Sqft x	Solar gain x	Solar factor			

OUTSIDE AIR (O.A.)			
Sqft x People x		cfm/Sqft	cfm/person

INFILTRATION			
Vol/60 x		Air.Ch/hr.	
Doors x		cfm/door	
Crack x		cfm/ft	
Exh. air			

NET OUTSIDE AIR

EFFECTIVE SHF AND ADP

ESHF = $\frac{ERSH}{ERTH}$ = _____

Ind. ADP _____ Sel. ADP = _____ °F

TRANSMISSION GAINS - WALLS and ROOF					
Wall	Sqft x	ETD x	U value		
Wall	Sqft x	ETD x	U value		
Wall	Sqft x	ETD x	U value		
Wall	Sqft x	ETD x	U value		
Wall	Sqft x	ETD x	U value		
Wall	Sqft x	ETD x	U value		
Wall	Sqft x	ETD x	U value		
Wall	Sqft x	ETD x	U value		
Wall	Sqft x	ETD x	U value		
Wall	Sqft x	ETD x	U value		
Roof, sun	Sqft x	ETD x	U value		
Roof,shaded	Sqft x	ETD x	U value		

DEHUMIDIFIED AIR RISE

= (1 - BF) x (Rm.DB - Sel.ADP)

= _____

DEHUMIDIFIED AIR QUANTITY

= Eff. Room Sensible Heat

= 1.08 x Dehum. rise = _____ Cfm

Check Figures

Sqft/Ton _____

Cfm/sqft _____

TRANSMISSION GAINS - OTHER					
All Glass	Sqft x	TempDiff x	U value		
Non ac Partition	Sqft x	TempDiff x	U value		
Non ac Part.Glass	Sqft x	TempDiff x	U value		
Non ac Ceiling	Sqft x	TempDiff x	U value		
Non ac Floor	Sqft x	TempDiff x	U value		

Notes:

INFILTRATION.& OUTSIDE AIR					
Infiltration	cfm x	Temp.Diff x	1.08		
Bypassed O.A.	cfm x	Temp.Diff x	BF x	1.08	

INTERNAL HEAT					
People	Nos. x	Btu/Hr/ Person			
Power	H.P. x		2545		
Lights	W/kW x	Ballast factor x	3.41/3410		
Appliances	W/kW x	Usage factor x	3.41/3410		

Total Room sensible heat:					
Supply duct	Supply duct				
Heat Leak	Fan.	Safety			
Gain %	loss %	H.P. %	Factor %		

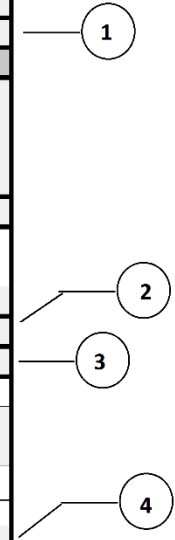
EFFECTIVE ROOM SENSIBLE HEAT, ERSH					
LATENT HEAT					
People	Nos. x	Btur/hour/person			
Infiltration	cfm x	GrainsDiff x		0.68	
Bypassed O.A.	cfm x	GrainsDiff x	BF x	0.68	
Steam	lb/hr x			1080	

Total Room latent heat:					
Supply duct	Supply duct				
Leak		Safety			
Loss %		Factor %			

EFFECTIVE ROOM LATENT HEAT, ERLH					
EFFECTIVE ROOM TOTAL HEAT, ERTH					

OUTSIDE AIR HEAT					
Sens.heat	cfm x	Temp.Diff x	(1 - BF) x	1.08	
Latent heat	cfm x	GrainsDiff x	(1 - BF) x	0.68	
Return duct	Return duct				
Heat Leak	Pump				
gain %	loss %	H.P. %			

TONS OF REFRIGERATION	GRAND TOTAL HEAT
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Website:www.miet.edu, E-mail:principallengg@miet.edu, contact@miet.edu

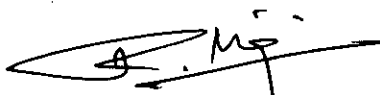


Report on the Event Department of Mechanical Engineering

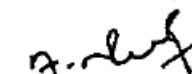
S.No	Description	Comments	
1	Type of Event	Value Added Course	
2	Title of the Event	MEP - HVAC Design Training	
3	Date & Day of the Event	25.10.2023 to 31.10.2023. Total Hours : 36	Time: 09.15 AM to 04.45 PM
4	Venue	A-Block CAD/CAM Lab.	
5	Name of the resource person(s)	1.Er. A.IMRAN SHERIFF 2.Er.P.KAMIL	
6	Details of resource person(s)	Senior Design Engineer, Unique MEP Engineering Academy Pvt. Ltd. Chennai.	
7	No. of participants	51	
8	Event Co-Ordinator(s)	Mr.R.Manickam., A/P Mech	
9	Objective(s) of the Event	To familiarize the HVAC fundamentals, design, and troubleshooting with expertise in load calculations, equipment selection, and airflow analysis. Stay updated on energy efficiency standards, codes, and emerging technologies for effective collaboration and sustainable practices.	
10	Topic(s) Covered	<ul style="list-style-type: none">• An Introduction to HVAC• Basics / Fundamental of HVAC• Psychometric• Refrigeration Cycle• Types of Air Conditioning Systems• E - 20 sheet• E - 20 Practice• HAP Software - Practice session• Air Terminals - Types and It's Sizing - Using Data Sheet and BETA Software• Ducting - Types, Fittings.• Ducting - Sizing (Formula , Chart and Software)• Toilet Ventilation• Kitchen Ventilation• Car parking Ventilation• Practice - Ducting and Ventilation• VRF&Chillers• HVAC Drafting - Air Terminal and Ducting	


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11	Feedback given by participants	<p>Students are satisfied about the value added course content delivered by the resource person was clear and easy to understand. Students are also satisfied about their expectation met from this value added course.</p> <div data-bbox="651 176 1481 426" data-label="Figure"> <table border="1"> <caption>Students feedback</caption> <thead> <tr> <th>QUESTIONS</th> <th>PERCENTAGE</th> </tr> </thead> <tbody> <tr><td>1</td><td>98.0</td></tr> <tr><td>2</td><td>98.0</td></tr> <tr><td>3</td><td>97.5</td></tr> <tr><td>4</td><td>96.0</td></tr> <tr><td>5</td><td>98.0</td></tr> <tr><td>6</td><td>98.0</td></tr> <tr><td>7</td><td>96.0</td></tr> <tr><td>8</td><td>98.0</td></tr> <tr><td>9</td><td>98.0</td></tr> <tr><td>10</td><td>96.0</td></tr> </tbody> </table> </div> <p>Q1. The value added course content met your expectation Q2. The program exposed you to new knowledge and practices Q3. The value added course was clear and easy to understand Q4. The resource person encouraged interaction and was helpful Q5. How much interesting this session was for you? Q6. What is your opinion about the resource person? Q7. How relevant was the content discussed by the speaker? Q8. How was your preparation about the topic before the guest value added course? Q9. Overall effectiveness of the value added course Q10. The program is also helpful to gain knowledge beyond the curriculum and syllabus</p>	QUESTIONS	PERCENTAGE	1	98.0	2	98.0	3	97.5	4	96.0	5	98.0	6	98.0	7	96.0	8	98.0	9	98.0	10	96.0																		
QUESTIONS	PERCENTAGE																																									
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7	96.0																																									
8	98.0																																									
9	98.0																																									
10	96.0																																									
12	Abstract of faculty feedback	All the faculty members felt satisfactory about the delivery of value added course given by the resource person has mentioned above.																																								
13	Feedback by HoD	Value added course was very useful to know the MEP and HVAC. They handled the lectures with more real time experiments using HVAC Software and interaction with students.																																								
14	Outcome(s) of this Event	<p>The students will be able to</p> <ul style="list-style-type: none"> • How to design HVAC systems for various types of buildings, considering factors such as building size, occupancy, climate, and energy efficiency requirements. • Technical knowledge of HVAC equipment and components, including heaters, boilers, chillers, air handlers, fans, ductwork, controls, and sensors. • The relevant building codes, standards, and regulations governing HVAC design and installation, ensuring compliance with safety, efficiency, and environmental requirements. 																																								
15	PO & PSO Mapping:																																									
<table border="1"> <thead> <tr> <th>PO1</th> <th>PO2</th> <th>PO3</th> <th>PO4</th> <th>PO5</th> <th>PO6</th> <th>PO7</th> <th>PO8</th> <th>PO9</th> <th>PO10</th> <th>PO11</th> <th>PO12</th> <th>PSO1</th> <th>PSO2</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>H</td> <td>M</td> <td>-</td> <td>H</td> <td>M</td> <td>-</td> <td>-</td> <td>M</td> <td>H</td> <td>-</td> <td>L</td> <td>H</td> <td>-</td> </tr> </tbody> </table>															PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	H	H	M	-	H	M	-	-	M	H	-	L	H	-
PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2																													
H	H	M	-	H	M	-	-	M	H	-	L	H	-																													
L-Low, H-High, M-medium																																										

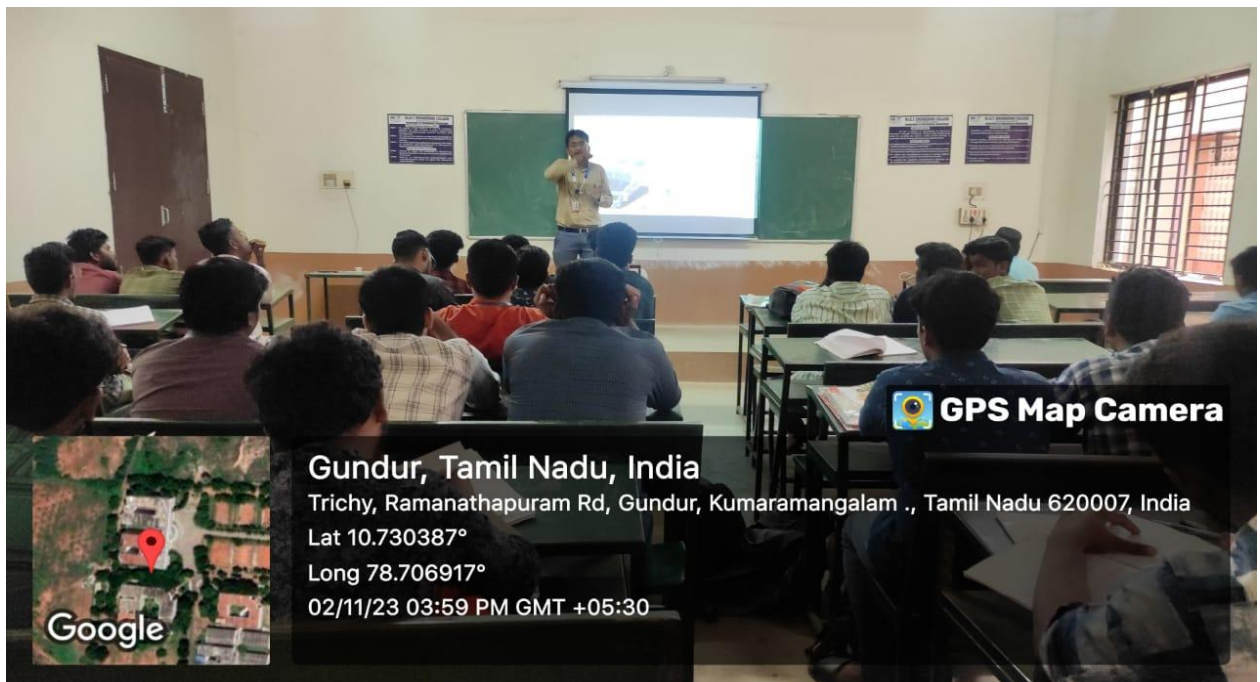

Course Coordinator


HoD


Principal


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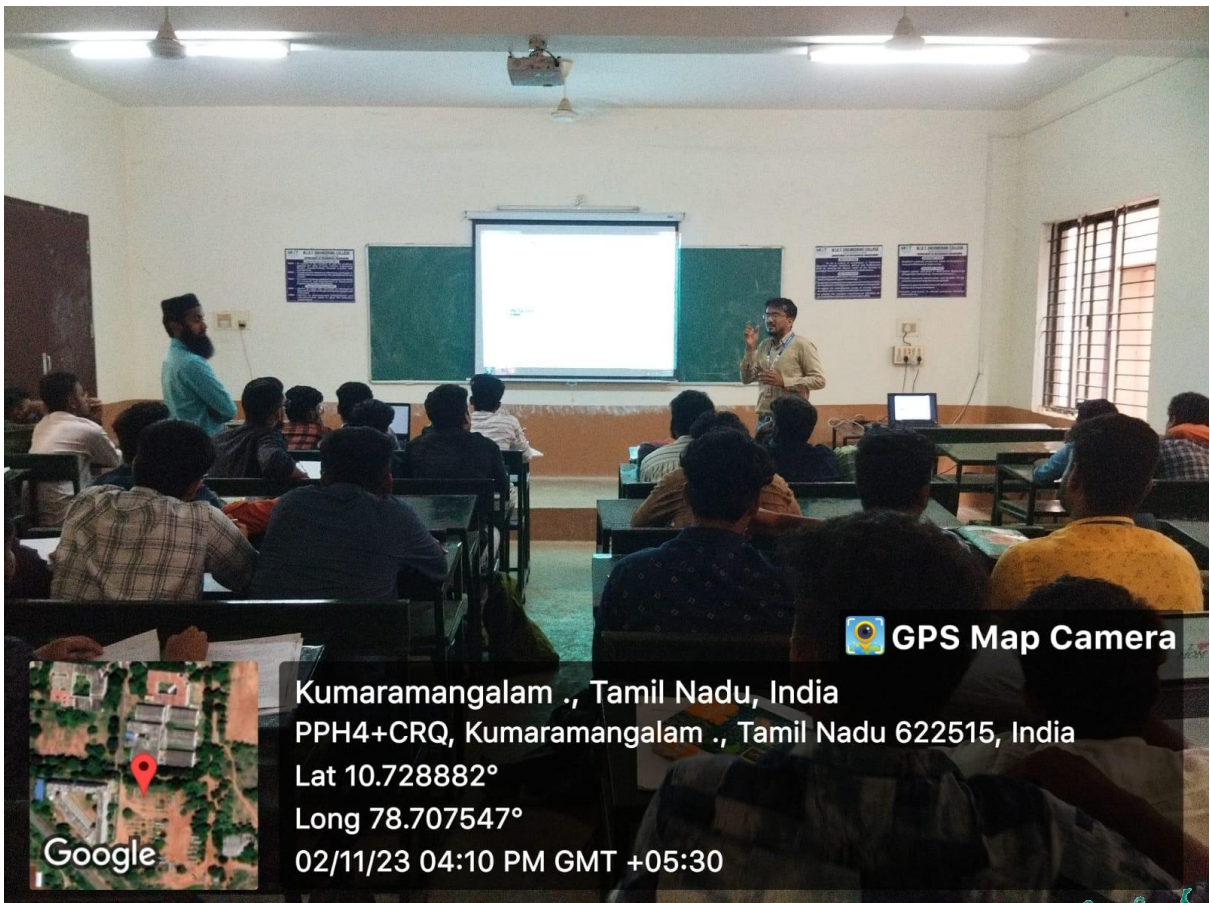
Geo Tagged Photos:




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[Signature]
 Event Co-Ordinator(s)

[Signature]
 HoD

[Signature]
 Principal



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 Training | Placement | Consultant

Course Completion

Certificate

This is to certify that

Mr. ARUN S

*Final Year Mechanical Engineering Student
 has completed the
 value added course on*

MEP - HVAC Design and Training

*held from 25th, Oct 2023 to 03rd, Nov 2023
 (36 hours)*

*at M.I.E.T. Engineering College,
 Tiruchirappalli.*

Issued @ Trichy
 November 2023

[Signature]
 HOD/Mech

[Signature]
 Managing Director
 (Unique Groups)


[Signature]
 Principal



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 Training | Placement | Consultant

Course Completion

Certificate

This is to certify that

Mr. MOHAMED ABITH A


*Final Year Mechanical Engineering Student
 has completed the
 value added course on*

**MEP - HVAC
 Design and Training**

*held from 25th, Oct 2023 to 03rd, Nov 2023
 (36 hours)*

*at M.I.E.T. Engineering College,
 Tiruchirappalli.*

Issued @ Trichy
 November 2023


 HOD/Mech


 Managing Director
 (Unique Groups)


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Course Completion

Certificate

This is to certify that

Mr. SHAFEEK AHAMED A

*Final Year Mechanical Engineering Student
 has completed the
 value added course on*

**MEP - HVAC
 Design and Training**

[Signature]
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 GUNDUR, TIRUCHIRAPALLI - 620 047

*held from 25th, Oct 2023 to 03rd, Nov 2023
 (36 hours)*

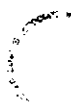
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Course Completion

Certificate

This is to certify that

Mr. NAGENDRAN A

*Final Year Mechanical Engineering Student
 has completed the
 value added course on*

**MEP - HVAC
 Design and Training**

*held from 25th, Oct 2023 to 03rd, Nov 2023
 (36 hours)*

*at M.I.E.T. Engineering College,
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Course Completion

Certificate

This is to certify that

Mr. HARI PRASATH B

*Final Year Mechanical Engineering Student
 has completed the
 value added course on*

MEP - HVAC Design and Training

*held from 25th, Oct 2023 to 03rd, Nov 2023
 (36 hours)*

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Course Completion

Certificate

This is to certify that

Mr. PUGAZHENTHI M

*Final Year Mechanical Engineering Student
has completed the
value added course on*

**MEP - HVAC
Design and Training**

*held from 25th, Oct 2023 to 03rd, Nov 2023
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*at M.I.E.T. Engineering College,
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Course Completion

Certificate

This is to certify that

Mr. VIJAY S

*Final Year Mechanical Engineering Student
 has completed the
 value added course on*

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 Design and Training**

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 (36 hours)*

*at M.I.E.T. Engineering College,
 Tiruchirappalli.*

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Certificate

This is to certify that

Mr. GNANARAJ D

*Final Year Mechanical Engineering Student
 has completed the
 value added course on*

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Course Completion

Certificate

This is to certify that

Mr. MADESHWAR R

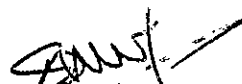
*Final Year Mechanical Engineering Student
has completed the
value added course on*

MEP - HVAC Design and Training

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Certificate

This is to certify that

Mr. ARUN KUMAR A

*Final Year Mechanical Engineering Student
 has completed the
 value added course on*

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*at M.I.E.T. Engineering College,
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This is to certify that

Mr. SURYA M

*Final Year Mechanical Engineering Student
has completed the
value.added course on*

MEP - HVAC Design and Training

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(36 hours)*

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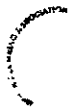
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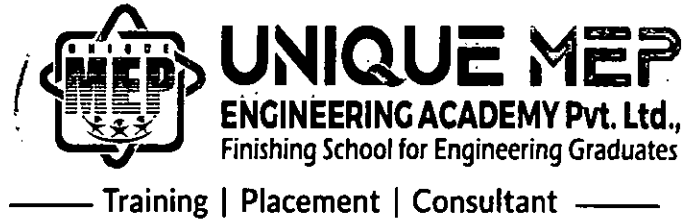

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(Unique Groups)


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Course Completion

Certificate

This is to certify that

Mr. MOHAMED ASHIQ M Y

*Final Year Mechanical Engineering Student
has completed the
value added course on*

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This is to certify that

Mr. MOHAMED HASSAN DHANVEER Y

*Final Year Mechanical Engineering Student
 has completed the
 value added course on*

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This is to certify that

Mr. BHARATHVAJ S

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value added course on*

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DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course

MEP - HVAC Design Training

Participant Feedback Form

*Thank you for taking the time to fill in this form.
 Your answers will be used to help us improve future activities.*

Program on	Value added course on MEP - HVAC Design Training					
Date (s)& Time	25.10.2023 to 31.10.2023.					
Venue	CAD/CAM Laboratory, M.I.E.T. Engineering college					
Resource Person	1. Er. A.IMRAN SHERIFF BIM Manager, 2. Er.P.KAMIL Senior Design Engineer, Unique MEP Engineering Academy Pvt. Ltd. Chennai					
Rating	E: Excellent		V: Very Good	G: Good		
	S: Satisfactory		N: Not Satisfactory			
S.No	Parameter	Please tick in the appropriate columns				
		E	VG	G	S	NS
1	Contents	✓				
2	Presentation			✓		
3	Materials/ Tools used	✓				
4	Organization of the talk		✓			
5	Usefulness	✓				
6	Relevance of the topic discussed	✓				
7	Time Management	✓				
8	Making the session Interesting	✓				
9	Arrangements (venue suitability, access and refreshments)	✓				
10	Overall rating	✓				
Topic you liked the most		HAP software tutorial.				
Suggestions to improve the program further		increase the day to elaborate the content				
Date	27.11.23	Signature & Name (Optional)		M.H. Jamal Mohamed Ali		

M.H. Jamal Mohamed Ali
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DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course

MEP - HVAC Design Training

Participant Feedback Form

*Thank you for taking the time to fill in this form.
 Your answers will be used to help us improve future activities.*

Program on	Value added course on MEP - HVAC Design Training					
Date (s)& Time	25.10.2023 to 31.10.2023.					
Venue	CAD/CAM Laboratory, M.I.E.T. Engineering college					
Resource Person	1. Er. A.IMRAN SHERIFF BIM Manager, 2. Er.P.KAMIL Senior Design Engineer, Unique MEP Engineering Academy Pvt. Ltd. Chennai					
Rating	E: Excellent		V: Very Good	G: Good		
	S: Satisfactory		N: Not Satisfactory			
S.No	Parameter	Please tick in the appropriate columns				
		E	VG	G	S	NS
1	Contents			✓		
2	Presentation		✓			
3	Materials/ Tools used				✓	
4	Organization of the talk			✓		
5	Usefulness			✓		
6	Relevance of the topic discussed				✓	
7	Time Management			✓		
8	Making the session Interesting			✓		
9	Arrangements (venue suitability, access and refreshments)			✓		
10	Overall rating			✓		
Topic you liked the most		HAP software				
Suggestions to improve the program further		In course the way to us full, the course of HVAC				
Date	27/11/23	Signature & Name (Optional)		D. GUNANARAJ		

D. Gunanaraj
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DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course

MEP - HVAC Design Training

Participant Feedback Form

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Program on	Value added course on MEP - HVAC Design Training					
Date (s) & Time	25.10.2023 to 31.10.2023.					
Venue	CAD/CAM Laboratory, M.I.E.T. Engineering college					
Resource Person	1. Er. A.IMRAN SHERIFF BIM Manager, 2. Er.P.KAMIL Senior Design Engineer, Unique MEP Engineering Academy Pvt. Ltd. Chennai					
Rating	E: Excellent		V: Very Good	G: Good		
	S: Satisfactory		N: Not Satisfactory			
S.No	Parameter	Please tick in the appropriate columns				
		E	VG	G	S	NS
1	Contents		✓			
2	Presentation			✓		
3	Materials/ Tools used			✓		
4	Organization of the talk		✓			
5	Usefulness				✓	
6	Relevance of the topic discussed				✓	
7	Time Management				✓	
8	Making the session Interesting			✓		
9	Arrangements (venue suitability, access and refreshments)			✓		
10	Overall rating			✓		
Topic you liked the most		Design and analyze the buildings & Rooms				
Suggestions to improve the program further		Elaborate new topic about the HVAC Design too				
Date	27/11/23	Signature & Name (Optional)			I. Kamil	

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DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course

MEP - HVAC Design Training

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Date (s) & Time	25.10.2023 to 31.10.2023.					
Venue	CAD/CAM Laboratory, M.I.E.T. Engineering college					
Resource Person	1. Er. A.IMRAN SHERIFF BIM Manager, 2. Er.P.KAMIL Senior Design Engineer, Unique MEP Engineering Academy Pvt. Ltd. Chennai					
Rating	E: Excellent		V: Very Good	G: Good		
	S: Satisfactory		N: Not Satisfactory			
S.No	Parameter	Please tick in the appropriate columns				
		E	VG	G	S	NS
1	Contents			/		
2	Presentation			/		
3	Materials/ Tools used			/		
4	Organization of the talk			/		
5	Usefulness			/		
6	Relevance of the topic discussed			/		
7	Time Management			/		
8	Making the session Interesting				/	
9	Arrangements (venue suitability, access and refreshments)			/		
10	Overall rating			/		
Topic you liked the most						
Suggestions to improve the program further						
Date	27-11-23	Signature & Name (Optional)		S. Dhandya -		

S. Dhandya
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DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course

MEP - HVAC Design Training

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	S: Satisfactory		N: Not Satisfactory			
S.No	Parameter	Please tick in the appropriate columns				
		E	VG	G	S	NS
1	Contents	<input checked="" type="checkbox"/>				
2	Presentation		<input checked="" type="checkbox"/>			
3	Materials/ Tools used			<input checked="" type="checkbox"/>		
4	Organization of the talk			<input checked="" type="checkbox"/>		
5	Usefulness			<input checked="" type="checkbox"/>		
6	Relevance of the topic discussed			<input checked="" type="checkbox"/>		
7	Time Management			<input checked="" type="checkbox"/>		
8	Making the session Interesting			<input checked="" type="checkbox"/>		
9	Arrangements (venue suitability, access and refreshments)			<input checked="" type="checkbox"/>		
10	Overall rating		<input checked="" type="checkbox"/>			
Topic you liked the most						
Suggestions to improve the program further						
Date	27/11/23	Signature & Name (Optional)		R. Ramalingam		

R. Ramalingam
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DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course

MEP - HVAC Design Training

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Venue	CAD/CAM Laboratory, M.I.E.T. Engineering college					
Resource Person	1. Er. A.IMRAN SHERIFF BIM Manager, 2. Er.P.KAMIL Senior Design Engineer, Unique MEP Engineering Academy Pvt. Ltd. Chennai					
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	S: Satisfactory		N:Not Satisfactory			
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8	Making the session Interesting	/				
9	Arrangements (venue suitability, access and refreshments)	/				
10	Overall rating	/				
Topic you liked the most		/				
Suggestions to improve the program further						
Date	27.11.23	Signature &Name (Optional)				

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6	Relevance of the topic discussed	✓				
7	Time Management	✓				
8	Making the session Interesting	✓				
9	Arrangements (venue suitability, access and refreshments)	✓				
10	Overall rating	✓				
Topic you liked the most						
Suggestions to improve the program further						
Date	27.11.23	Signature & Name (Optional)				

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Program on	Value added course on MEP - HVAC Design Training					
Date (s)& Time	25.10.2023 to 31.10.2023.					
Venue	CAD/CAM Laboratory, M.I.E.T. Engineering college					
Resource Person	1. Er. A.IMRAN SHERIFF BIM Manager, 2. Er.P.KAMIL Senior Design Engineer, Unique MEP Engineering Academy Pvt. Ltd. Chennai					
Rating	E: Excellent		V: Very Good	G: Good		
	S: Satisfactory		N:Not Satisfactory			
S.No	Parameter	Please tick in the appropriate columns				
		E	VG	G	S	NS
1	Contents	/				
2	Presentation	/				
3	Materials/ Tools used	/				
4	Organization of the talk	/				
5	Usefulness	/				
6	Relevance of the topic discussed	/				
7	Time Management			/		
8	Making the session Interesting	/				
9	Arrangements (venue suitability, access and refreshments)				/	
10	Overall rating			/		
Topic you liked the most						
Suggestions to improve the program further						
Date	27/11/2023	Signature &Name (Optional)				

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 Website: www.miet.edu, E-mail: principal@mgg@miet.edu, contact@miet.edu



DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course

MEP - HVAC Design Training

Participant Feedback Form

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		E	VG	G	S	NS
1	Contents		✓			
2	Presentation			✓		
3	Materials/ Tools used				✓	
4	Organization of the talk			✓		
5	Usefulness			✓		
6	Relevance of the topic discussed			✓		
7	Time Management				✓	
8	Making the session Interesting			✓		
9	Arrangements (venue suitability, access and refreshments)			✓		
10	Overall rating			✓		
Topic you liked the most						
Suggestions to improve the program further						
Date	27/11/23	Signature & Name (Optional)			<i>P. Jambika</i>	

P. Jambika
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DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course

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		E	VG	G	S	NS
1	Contents		✓			
2	Presentation			✓		
3	Materials/ Tools used		✓			
4	Organization of the talk				✓	
5	Usefulness		✓			
6	Relevance of the topic discussed		✓			
7	Time Management			✓		
8	Making the session Interesting		✓			
9	Arrangements (venue suitability, access and refreshments)		✓			
10	Overall rating		✓			
Topic you liked the most						
Suggestions to improve the program further						
Date	27/10/23	Signature & Name (Optional)				


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DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course

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3	Materials/ Tools used			✓		
4	Organization of the talk		✓			
5	Usefulness			✓		
6	Relevance of the topic discussed		✓			
7	Time Management			✓		
8	Making the session Interesting		✓			
9	Arrangements (venue suitability, access and refreshments)				✓	
10	Overall rating		✓			
Topic you liked the most		A/C conditioning				
Suggestions to improve the program further		Practical Sessions				
Date	27/11/23	Signature & Name (Optional)		S. Jayasunderar		

S. Jayasunderar
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