

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 Recognized by UGC under section 2(f) & 12(B) of UGC Act, 1956 Trichy – Pudukkottai Road, Tiruchirappalli – 620 007. Phone:0431-2660 303 Website:www.miet.edu, E-mail:principalengg@miet.edu, contact@miet.edu



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

2023-2024 Name of Add on / Certificate programs S.No Page no. offered **Electric Vehicles** 2 Permission 3 Circular Invitation 4 5 Brochure 6 Syllabus & Lesson plan Willing student list 10 1 12 Student list Website updation 14 15 Attendance 17 Question paper 19 Event report 22 Feedback form Certificates 31 **MEP - HVAC Design Training** Permission 42 Circular 43 Invitation 44 **Syllabus** 45 Timetable & Lesson plan 46 Resource person details 48 2 50 Willing student list Student list 52 Attendance 54 Question paper 57 Event report 59 Certificates 65 Feedback form 79

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PRINCIPAL MJ.E.T. ENGINEERING COLLEGE GUNDUR, TIRUCHIRAPALLI - 520 004



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Date: 27.09.2023

То

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

Course Coordinator

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DEPARTMENT OF MECHANICAL ENGINEERING

<u>CIRCULAR</u>

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 Venthan 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

963 Coordinato

Principal

PRI ICIPAL MJ.E.T. ENGINEERING COLLEGE SUNDUR, TIRUCHIRAPALLI - 520 004







DEPARTMENT OF MECHANICAL ENGINEERING

Cordially invites you to the

VALUE ADDED COURSE PROGRAMME

Date: 03/10/2023- Forenoon

द्री

Er.A.Mohamed Yunus Chairman, M.I.E.T. Engineering College, Trichy

will deliver the presidential address

Mr. K.C. Tamil Venthan,

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

<u>Coordinator</u> Mr.K.Baskar Mr.C.Manikandan AP/Mech

PRINCIPAL MJ.E.T. ENGINEERING COLLEGE GUNDUR, TIRUCHIRAPALLI - 520 000 Dr. B. Selvam HOD- MECH

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Trichy-620 002.

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

<u>Time table</u>

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		Lecture - 2	rea	Lecture - 3	ark Brit	Lecture - 4
Day 2	04-Oct-23	Lecture - 5		Lecture - 6		Lecture - 7	E.	Lecture - 8
Day 3	05-Oct-23	Lecture - 9	Ten	Lecture - 10	aun	Lecture - 11	Len	Lecture - 12
Day 4	06-Oct-23	Lecture - 13	1 1 1	Lecture - 14	ב* <u>ו</u>	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 I	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	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. (Project: AC to DC Convertor & Motor Speed Control System using MOSFET)
Day 2	Lecture – 5,6	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.
Day 2	Lecture – 7,8	 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. 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. Project: DC to AC Invertors, PWM, Voltage boost & Stepper Motor Control Systems.
Day 3	Lecture – 9,10	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-

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		performance systemscode 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.



Principal

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Department Of Mechanical Engineering

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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



32.	812421114314	MARTIN I	Course completed
33.	812421114315	MOHAMED ABDUL KADER	Course completed
-		BASITH S	
. 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

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Course co-ordinators

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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
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31.	812421114313	KISHORE U

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812421114314	MARTIN I					
010/0111/215	MOHAMED ABDUL KADER					
012421114313	BASITH S					
812421114316	MOHAMED ASLAM J					
812421114317	MOHAMED IMRAN A					
812421114318	MOHAMED IRFAN M					
812421114319	MOHAMMED NOWFAL M					
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812421114329	YASWANTH A					
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K Course Coordinator

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Principal

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DEPARTMENT OF MECHANICAL ENGINEERING

То

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.

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	2	Va	lue Added d	course – Ha	nds-on trair	ning on Elec	ctric Vehic	les (EV)				
SINO	RegNo	Name of the participant	03.1	0.2023	04.10	0.2023	05.10	0.2023-	06.10	.2023	07.10	.2023
-1-10	Reg. No		FN	AN	FN	AN	FN	AN	FN	AN	FN	AN
1	812421114002	ABDUL AFSAR AHAMED S	Ca	Q.	Q	De.	6ª	a	Qe.	he.	B	(A)
2	812421114004	AHAMED BATCHA.N	MALT	N.A.J	NAL	NALI	N.AL	N'AL	NALL	KIAL	NALS	NAC
3	812421114003	ABUTHAHIR.A		st	est	1-the	15-J	J	Cento	Lata	Kel	
4	812421114006	AMARNATH R V	AB	AB	Report	R.V. And	RANA	Ru Anat	Rutut	RNAC	D.A.	o. A. A
5	812421114008	AROCKIYA SANTHOSH KUMAR S	stut	sta.	STA.	stat	stut	stut	Strat.	Stut-	still.	Stat
6)	812421114009	BALAKUMARAN.K X	K. lahi	V. laht	V. lashte	K. left.	Kilold.	K.lol-1	1 lal.	V P P. J.	K. L.J.	K. P. P
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8	812421114011	HARIBALAN.P	P.Th	P. This	Phi	P.Hi	P.Thi	PShy	Phi	Pillie	PUL	\$054.
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34	812421114316 MOHAMED ASLAM J	Aslam	Aslay	Aslan	Aslan-	Aspin	Aslam	Aslam.	Aslan	Aslan	filler	1
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36	812421114318 MOHAMED IRFAN M	Ming	Minh	min	minf.	Min	Main	Mint	Mill	Nih	mil	
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39	\$12421114321 NISHANTH VR	Vipait	Veal	V. D. Gai	1.p. out	V-12.00	N.P. Que	V.D.at	Vedd	Voor	NIPP	A
40	812421114322 PRADEEP ALDOH P	Piplant	P. Praster	P. Richt	Part	Prod	PRadue	PRAT	P.D.	D.R.J.	TUR	7
41	812421114323 RAGUL ROSHAN · M	M fazzel	M. Razul	M. Ravel	m. Rozal	Miller	n.2.1	M. Rog. I	n.P.	Milt	hiza	-
42	812421114324 RAMACHANDRAN C	R.Ham	Rime	120002	RA	Demo	CR	CIEL	Dag	DA ROL	1 0 to)	n-
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	Total No Students Presents	147	47	48	108	Ug	48	Low	1.7	he is	H. Jen	in
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	Signature Course Coordinator	a	R	a	D	R	D	R	R-	0	Q	
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PRINCIPAL 1 MJ.E.T. ENGINEERING COLLEGE GUNDUR, TIRUCHIRAPALLI - 520 004



(Approved by AICTE, New Debi, Affiliated to Ama (Bebarahy, Chenna) CO (CSL, ELE D MECH Programs Accrecited by NBA, New Debi Accrecited with (34) gnatch by NBAC An ISO Soft 2245 Contried Acatherica Recording to 1100 (Soft 2015) (1977)

ำ กอาว่า - พิษมีแห่งอ่าน Roam, Siniohimppaille \$28,907. (คิดกิดไห้31,286) 303 พระสายเพพพงการปลาย, E-ศัสดภูมิกล่าวอุษมปฏิภัติและอุบุญภิติกล่างอยุ ออกปอปสุดภูมิกล่างก

DEPARTMENT OF MECHANICAL ENGINEERING



and in association with LIFT INDIA (Life Intensive Formation of Trust) Value Added Course Date: 07.10.2023 Name: Max.Marks: 50 Hands-on training on Electric Vehicles (EV) Roll No: 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 V.J.E.T. ENGINEERING COLLEGE GUNDUR, TIRUCHIRAPALLI - 520 004 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 2) Three phase AC 3) High voltage DC 4) None of the above 1) Single phase AC

 13) Fast charging stations are 1) Single phase AC 2) Three phase AC 14) Hub motors are best suited for 	3) High voltage [OC 4) None	of the above
 1) Electric bikes or scooters 2) Electric motorcycles 15) How are the cell connected in a battery? 	3) Electric cars	4) Electric buses	
1) One after the other			
3) Only firt and last			
4) Any two	4-4i i-		
1) Nickel-cadmium battery	tation is	······································	
2) Zinc carbon battery			
3) Lead-acid battery			
4) None of the above			
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 str1) Optimization based	ategy system		
2) Rule based			
3) Global optimization strategy			
4) Regression method			
 19) High specific energy, high specific power, long cyc characteristics, cost effectiveness, and environmenta 1) Ultracapacitor 	le life, high-energy e I friendliness are the	fficiency, quick rec features of	harge, maintenance free
2) Battery			
3) Fuel cell			
4) Flywheel			
20) If a battery is to be charged at a much higher rate restricted to 1) 95% of the capacity of battery	e as compared to no	rmal charging rate,	the charging should be
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 charge 1) Increasing temperature	ed decreases with		
2) Increasing charging rate			
3) Increasing stage of charge			
4) All of the above			
 22) Electric vehicle & hybrid vehicle have following comp 1) Battery 2) ECU 	ponents common exce		
3) Generator			
4) Internal combustion engine			
23) A fuel cells convertsenergy into electrical energ1) Mcchanical	y .		
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 p1) Rectifier2) Filters3) Ose	oower supply? cillators	4) Regulator	PRINCIPAL MJ.E.T. ENGINEERING COLLEGE GUNDUR, TIRUCHIRAPALLI - 520 GIV

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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.						
		1. To learn the basics of electric vehicles.						
9	Objective(s) of the Event	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.						
		4. AC to DC Convertor & Motor Speed Control System using (MOSFET)						
1		5. DC to AC Inverters, PWM, Voltage boost & Stepper Motor Control Systems.						
10	Topic(s) Covered	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.						
		resource person. It was clear and easy to understand of various components and						
		their functions. Doubts were clarified effectively.						
		STUDENTS FEED BACK						
		94 92.492.4 ^{93.6} ■ Scrie						
		¹³ 92 ^{91,2} 90.8 90.8 90.8 90.8 90.4 90						
11	Feedback given by participants							
		84 8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8.8						
		1 2 3 4 5 6 7 8 9 10 QUESTIONS						
		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						
		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						
		The staff members were satisfied with the value added course and the						
12	Abstract of faculty feedback	I ne statt members were satisfied with the value-added course and the						
12	Abstract of faculty feedback	resource person handled all the sessions very interactively. The students						
		The 5 days were effectively utilized by the participants to learn the						
		various electric vehicle components and their functions. There were 2						
13	Feedback by HoD	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.						
		1. Students are able to construct motor control circuits.						
14	Outcome(s) of this Event	2. Students are able to disassemble and assemble an electric scooter.						
	PO & PSO Mapping:	<u></u>						
	PQ1 PO2 PO3 PO4 PO5	PO6 PO7 PO8 PO9 PO10 PO11 PO12 PSO1 PSO2						
15								
	L-Low H-High M-medium							
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	Event Co-oromator(s)							
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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.

Progran	n on	Hands-on training	on Electric	c Vehicles	s (EV)			
Date (s)	& Time	03/10/2023 to 07/1	0/2022 (Total Hours = 30)					
Venue		Metrology and Me D-Block, M.I.E.T.	asurement Engineeri					
Resourc	ce Person	Mr. K.C. Tamil Ve LIFT INDIA (Life	K.C. Tamil Venthan, Director, 'INDIA (Life Intensive Formation of Trust)					
	Pating	E: Exe	cellent		V: Very (Good	G: Good	
	Kating	S: Satis	sfactory		N:Ne	ot Satisfa	ctory	
S No	Dar	ameter	Plea	se tick in	the approp	oriate col	lumns	
0.110	I al		E	VG	G	S	NS	
1	Contents				_			
2	Presentation							
3	Materials/ Tools	used						
4	Organization of	the talk		/				
5	Usefulness		/					
6	Relevance of the	e topic discussed						
7	Time Manageme	ent	5					
8	Making the sess	ion Interesting	~					
9	Arrangements (venue suitability, access and refreshments)				1			
10	Overall rating			N				
Topic you liked the most			Ē -	vehicle	, cont	raller		
Suggest	tions to improve the	ne program further	To Dot 1	split beard	up 2 to more	menbe Utmpiln	on one ents and qua	lity l
Date	7/10/23	Signature &Name	(Optional)	, к.	Moham	d A.	shiq	

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DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course

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Date (s))& Time	03/10/2023 to 07/1	0/2022 (T	otal Hour	s = 30)			
Venue		Metrology and Met D-Block, M.I.E.T.	easurements Laboratory, . Engineering College.					
Resourc	ce Person	Mr. K.C. Tamil Ve LIFT INDIA (Life	Ir. K.C. Tamil Venthan, Director, IFT INDIA (Life Intensive Formation of Trust)					
	D. C.	E: Exc	cellent		V: Very	Good	G: Good	
	Rating	S: Satis	factory		N:N	ot Satisfa	tory	
S No	Par	, emeter	Plea	se tick in	the approp	priate col	umns	
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1	Contents							
2	Presentation							
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4.	Organization of	the talk	\checkmark					
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6	Relevance of the	e topic discussed						
7	Time Manageme	ent			\checkmark			
8	Making the sess	ion Interesting	1					
9	Arrangements (v access and refree	venue suitability, shments)	1					
10	Overall rating		\sim					
Topic you liked the most			practical saction					
Suggestions to improve the program further		-need more time						
Date	Date $7/10/23$ Signature & Name (Optional)							

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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.

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Date (s))& Time	03/10/2023 to 07/1	0/2022 (T	otal Hour	s = 30)		i	
Venue		Metrology and Me D-Block, M.I.E.T.	easurements Laboratory, . Engineering College.					
Resourc	ce Person	Mr. K.C. Tamil Ve	enthan, Dir	ector,				
		LIFT INDIA (Life	Intensive	Formation	n of Trust).			
	Rating	E: Ex	cellent		V: Very C	Good	G: Good	
		S: Satis	sfactory		N:Nc	ot Satist	actory	
S No	Par	ameter	Plea	se tick in	the approp	riate co	olumns	
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1	Contents							
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4	Organization of	the talk						
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Suggestions to improve the program further			trysow Quality quipments are					
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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	n on	Hands-on training	on Electric	Vehicles	s (EV)			
Date (s))& Time	03/10/2023 to 07/1	10/2022 (Total Hours = 30)					
Venue		Metrology and Me D-Block, M.I.E.T.	Ieasurements Laboratory, [. Engineering College.					
Resourc	ce Person	Mr. K.C. Tamil Ve LIFT INDIA (Life	Mr. K.C. Tamil Venthan, Director,					
	·····	E: Ex	cellent		V: Very (Good	G: Good	
Rating		S: Satis	sfactory		N:N	ot Satisf	factory	
S No	Dor	omotor	Pleas	se tick in	the appro	priate c	olumns	
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4	Organization of	the talk		\sim				
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9	Arrangements (access and refre	venue suitability, shments)	\checkmark					
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Suggestions to improve the program further								
Date	Date $\mathbf{r}_{1} \mathbf{a}_{2}$ Signature & Name				M.GIN	9111 AG	lingthyn	





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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	bgram on Hands-on training on Electric Vehicles (EV)						
Date (s))& Time	03/10/2023 to 07/1	10/2022 (T	otal Hours	s = 30)		
Venue		easurements Laboratory, . Engineering College.					
Resourc	ce Person	Mr. K.C. Tamil Vo LIFT INDIA (Life	enthan, Dir Intensive	ector, Formatior	n of <u>Trust</u>).		
	Dating	E: Ex	cellent		V: Very	Good	G: Good
	Kating	S: Satis	sfactory		N:N	ot Satisf	actory
C No	Dom	motor	Plea	se tick in	the appro	priate co	olumns
5.10	Fai		E	VG	G	S	NS
1	Contents		VI				
2	Presentation			N			
3	Materials/ Tools	used			V		
4	Organization of		\checkmark				
5	Usefulness			~			
6	Relevance of the	e topic discussed		V			
7	Time Managem	ent					
8	Making the sess	ion Interesting	· ·	N			
9	Arrangements (v access and refre	venue suitability, shments)		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
10	Overall rating	-		V			
Topic y	ou liked the most				••		
Suggestions to improve the program further			Some Components are worked not perfectly. So, pleace changed that				
Date	07/10/2023	Signature &Name	(Optional)	N	JASIM	AH	AMED

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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	V: Very Good G: Good						
Rating		E: Excellent			N:Not Satisfactory					
	1	<u> </u>	Plea	Please tick in the appropriate columns						
S.No	Par	ameter	E	VG		S	NS			
1	Contents	· ·								
2	Presentation			\checkmark						
3	Materials/ Tools used									
4	Organization of the talk		$\overline{\vee}$							
5	Usefulness		$\overline{\checkmark}$							
6	Relevance of the topic discussed			\checkmark						
7	Time Management			\checkmark						
8	Making the session Interesting		\checkmark							
9	Arrangements (venue suitability, access and refreshments)		\checkmark	7						
10	Overall rating			\checkmark						
Topic y	ou liked the most									
Suggest	tions to improve t	he program further								
Date 07/49/23 Signature & Name (C				M	MOHAME) IRFAN	,, <u></u>			





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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	Dor		Plea	<u>ise tick in</u>	priate col	oriate columns			
5.110	ran:		E	VG	G	S	NS		
1	Contents		5						
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)		4	/					
10	Overall rating								
Topic you liked the most									
Suggestions to improve the program further		Some componets not working properly next time give best componets							
Date 07-10-2023 Signature &		Signature &Name	e (Optional) K.Harlfh.						

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MJ.E.T. ENGINEERING COLLEGE SUNDUR, TIRUCHIRAPALLI - 520 002

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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	n on	Hands-on training on Electric Vehicles (EV)						
Date (s)& Time	03/10/2023 to 07/	10/2022 (1					
Venue		Metrology and Me D-Block, M.I.E.T.	easuremen Engineeri	ts Laborate	ory, e.			
Resour	ce Person	Mr. K.C. Tamil V LIFT INDIA (Life	enthan, Di e Intensive	rector, Formation	n of Trust).			
	Rating	E: Ex	cellent		V: Very	Good	G: Good	
	Rating	S: Sati	sfactory		N:N	ot Satisfa	ctory	
S No	Par	ameter	Plea	ise tick in	the appro	priate col	lumns	
5.1.0	14)		E	VG	G	S	NS	
1	Contents							
2	Presentation							
3	Materials/ Tools	sused						
4	Organization of	the talk		/				
5	Usefulness		1					
6	Relevance of the	e topic discussed						
7	Time Managem	ent						
8	Making the sess	ion Interesting						
9	Arrangements (v access and refre	venue suitability, shments)		1				
10	Overall rating							
Topic y	ou liked the most		Tempera	ature (r	ntroller	s Rege	ulator Pou	wer Supply
Sugges	tions to improve t	he program further	Equipr Satis	nents c factore	valbb	iliky r <u>ch Sep</u> r	rot exations	alco.
Date	07/10/23	Signature &Name	(Optional)	K. le	t-t	•	

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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 trainir		g on Electric Vehicles (EV)					
Date (s)& Time	03/10/2023 to (03/10/2023 to 07/10/2022 (Total Hours = 30)						
Venue	Metrology and D-Block, M.I.E	Metrology and Measurements Laboratory, D-Block, M.I.E.T. Engineering College.						
Resource Person	Mr. K.C. Tami	Mr. K.C. Tamil Venthan, Director,						
	LIFT INDIA (I	Life Intensive	Formation	n of Trust).		· · · · · · · · · · · · · · · · · · ·		
Ratino	E:	E: Excellent			V: Very Good G: Good			
	<u> </u>	S: Sarisfactory N:Not Satisfac						
S No	Parameter	Plea	se tick in	the appro	priate col	lumns		
5.1.10		E	VG	G	<u> </u>	NS		
1 Contents	Contents							
2 Presentati	Presentation					· · ·		
3 Materials	Materials/ Tools used			\checkmark				
4 Organizat	Organization of the talk		\checkmark					
5 Usefulnes	S							
6 Relevance	Relevance of the topic discussed		\checkmark					
7 Time Mar	Time Management							
8 Making th	Making the session Interesting		\checkmark					
9 Arranger access and	Arrangements (venue suitability, access and refreshments)							
10 Overall ra	Overall rating		\checkmark					
Topic you liked the most		Tampo	Tamponequie Controller using lox					
Suggestions to imp	prove the program furth	er			A			
	0-2.02 Signature & Na	me (Optional))	1.	hurs	hi (Mo		
























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Date: 11.10.2023

EGE

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	 Er. A.IMRAN SHERIFF BIM Manager, 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,

11.10 23.

Course Coordinator's

ech

Principal

ICIPAL D DH MJ.E.T. ENGINEERING COLLEGE GUNDUR, TIRUCHIRAPALLI - 520 004



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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	 Er. A.IMRAN SHERIFF BIM Manager, 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

10.23

Course Coordinator's

Principal

PRINCIPAL MJ.E.T. ENGINEERING COLLEGE GUNDUR, TIRUCHIRAPALLI - 520 0/







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

<u>Coordinator's</u> Dr.G. Pranesh Mr.R.Manickam AP/Mech

PRINCIPAL MJ.E.T. ENGINEERING COLLEGE GUNDUR, TIRUCHIRAPALLI - 520 004 Dr. B. Selvam HOD- MECH













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Department of Mechanical Engineering

Value Added Course

MEP - HVAC Design & Training - Syllabus

Date	:	25.10.2023 to 31.10.2023	
Total Hours	:	36 Hours	Ì
Course Coordinators	8:.	Dr.G.Pranesh, Mr. R.Manickam, AP/Mech.	
Academic Year	:	2023 - 2024	_
Course Code	:	ME23242	
Name of the course	:	MEP - HVAC Design & Training - Value Added Course	

CURRICULUM FOR MEP - HVAC DESIGN & TRAINING

S.No	Topics
1.	HVAC - An Introduction
2.	Basics / Fundamentals of HVAC System
3.	Psychro metrics
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

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Course Coordinator's

IQAC Coordinator

Principal

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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 Add	ded Course	
Course Code	:	ME23242		
Academic Year	:	2023 - 2024		
Course Coordinator	s:	Dr.G.Pranesh, Mr. R.Manickam, AP/Mech		
Total Hours	:	36 Hours	· .	
Date	:	25.10.2023 to 31.10.2023		<u> </u>

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		Lecture - 1		Lecture - 2	「「「」」「「」」」 「「「「」」」	Lecture - 3
Day 2	26.10.2023	Lecture - 4	eak	Lecture - 5	reak	Lecture - 6	äk	Lecture - 7
Day 3	27.10.2023	Lecture - 8	a Br	Lecture - 9	ich:B	Lecture - 10		Lecture - 11
Day 4	28.10.2023	Lecture - 12		Lecture - 13	Lau	Lecture - 14	Te	Lecture - 15
Day 5	30.10.2023	Lecture - 16		Lecture - 17	1. 1.	Lecture - 18		Lecture - 19
Day 6	31.10.2023	Lecture - 20	L L L H A	Lecture - 21		Lecture - 22		Lecture - 23

Lesson Plan

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

PRINCIPAL PRINCIPAL M.L.E.T. ENGINEERING COLLEGE GUNDUR, TIRUCHIRAPALLI - 520 004



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	Lecture – 7	E - 20 sheet
	Lecture – 8	E - 20 Practice
Day 3	Lecture – 9	HAP Software
Day 5	Lecture – 10	HAP software
	Lecture – 11	HAP Software - Practice session
	Lecture – 12	Air Terminals - Types and It's Sizing - Using Data Sheet and BETA Software
Day 4	Lecture – 13	Ducting - Types, Fittings.
	Lecture – 14	Ducting - Sizing (Formula, Chart and Software)
	Lecture – 15	Toilet Ventilation
	Lecture – 16	Kitchen Ventilation
Day 5	Lecture – 17	Car parking Ventilation
Day 5	Lecture – 18	Practice - Ducting and Ventilation
• .	Lecture – 19	VRF & Chillers
· ····································	Lecture – 20	HVAC Drafting - Air Terminal and Ducting
Day 6	Lecture – 21	HVAC Drafting - Air Terminal and Ducting
Day 0	Lecture – 22	HVAC Drafting - Air Terminal and Ducting
	Lecture – 23	HVAC Drafting - Air Terminal and Ducting

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201023 **Course Coordinators**

1 IQAC Coordinator

Principal

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EP. 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, Enseape, Rhino and Gross hopper
- > Graphic Design Softwares : Photoshop, Lightgroom, 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.,

Inishing School For

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

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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	HARIPRASATH 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 FEROZ 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 LAWRANCE 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

سلم برم Principal

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M.I.E.T. ENGINEERING COLLEGE

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DEPARTMENT OF MECHANICAL ENGINEERING

VAC ON MEP - HVAC DESIGN & TRAINING

Students Name 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	HARIPRASATH 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 FEROZ 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 LAWRANCE 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

ネ Principal

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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	1.1	1	1 1	1	1	1.00
2.	E1202006	AMJATH HUSSAIN N S	1	. /	1	1	1	1.
3.	E1202010	BALAJI PRASANNA V	1	1 1 1	1 And	1.1.1		
4.	E1202011	BASSAM B	1	AB	1	1	1	1 days
5.	E1202013	HAJI MOHAMED S	1	1	1	1. 1. 1	1.1	· · · / · · · ·
6.	E1202014	HARI PRASATH B		1	1	1	1 mile	and from a
7.	E1202018	MOHAMED FAYIZ S	1	1	1	AB	2.45/.01	1
8.	E1202019	MOHAMED HASSAN DHANVEER Y	1	1	1	1		1
9.	E1202023	NAGENDRAN A	1	1. 1. 1. 1. 1.		Sec. 1. Sta	1.1	1
10.	E1202024	PUGAZHENTHI M	1	1	1	1.12	1	1
11.	E1202027	SHAJAKHAN S	1	1	AB	2 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1. 1.	1

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and the second								
12.	E1202030	SUBRA K	./.	1	1	1	1	1 1
13.	E1202031	THOUFIQ UMAR S	1	1	/	1	1	1
14.	E1202034	YUVAPRASATH B	1 1			1 1 -	1	AB
15.	E 2212043	ARUN S	AB	1	1	1	1	- 1 -
16.	E 2212044	ARUN KUMAR A	1	1	1	1	1	1
17.	E 2212046	ASHIK FEROZ T M		1 .	1	1		1
18.	E 2212047	BHARATHVAJ S	. 1	- 1 · · ·	1	1	1. 5.	and the second
19.	E 2212055	ENOCH DANIEL R	1		A-B	· · · / · · ·	1	1
20.	E 2212056	GNANARAJ D	1 1	1	1	1	1	1 1
21	E 2212061	IMAM KHAN R	1	- 1	1	1	1 . · · · ·	111
22.	E 2212062	JAMAL MOHAMED ALI M H	1 1 1	1	1	1	1	1 1 -
23.	E 2212064	JASEEM KHAN H	1	1		1 1	1.5	1
24.	E 2212066	JAYASURYA S	1	AB	1	1	1 1	1.
25.	E 2212067	JEEVANANDHAM S	1	1	1	· · · · · · · · · · · · · · · · · · ·	Real la di	1
26.	E 2212069	KAMESH M	1	1	1	1	1 1	1. 1.
27.	E 2212071	KISHORE HIRAN R	1		1	1	1.	1.1.
28.	E 2212073	LOGESH M	1	1	1		1	1
29.	E 2212074	LOGESWARAN R	1			AB	1	1
30.	E 2212076	MADESHWAR R	1 1 1	11	1	1 1	1.1.1	1 1
31.	E 2212078	MANIKANDAN R	1	. 1	1	1	1 family	1
32.	E 2212081	MIRZA YUSUF ALI MIRZA ABBAS ALI	1	1	1	7	1	1
33.	E 2212082	MOHAMED ABITH A	1	1	1	1		1 200 1 30
34.	E 2212086	MOHAMED ASHIK S	1	1	1	1	1	1 1
35.	E 2212087	MOHAMMED ASHIK S	1	1 1 1	1	1	1	1. 1.
36.	E 2212088	MOHAMED ASHIO M Y	1	1 1 1	1	1. 1	1.1.1.	1221

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46.	E 2212122 E 2212125	SOLOMON LAWRANCE B		7				
45.	E 2212117 E 2212120	SHRIVARSHAN B		1	1		- 1,	1
43.	E 2212109	PRAVIN JOSEPH S	/	/		1	1	
42.	E 2212105	PANDIYARAJAN R		1	1	AB	1	
40.	E 2212099 E 2212101	MOHAMED SUHAIL M NAVEEN RAJ B				1	1	
39	E 2212092	MOHAMED SHAFEEQ I	1	1	1	1		1
28	E 2212089	MOHAMED INTUIVAS I		AR			1	1

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Course Coordinator

Principal

MJ.E.T. ENGINEERING COLLEGE GUNDUR, TIRUCHIRAPALLI - 520 002

COOLING AND DEHUMIDIFYING LOAD ESTIMATE

		000											
Estimated b	y:								Location:	Ś	Season: L	ocal time:	
Dated:													
Job name:									CONDITIONS	DB (°F)	WB (°F)	RH (%)	W (gr/lb)
Address:									Outside air				
Space used	tor:				. .				Boom				
Room	Length, ft.		Width, ft.		Sq.ft. x	Height, fl	t.	Vol., cu.ft.	Difference				
Size		X				_		Deville					
		3			22 4 55			Btu/Hr.	OUTSIDE AI	n (U.A.)		fra /C aft	
	alass			GAINS - C			Solar factor			Sqtt ×	C	fm/Sqft	
	glass		Saft x		Solar gain x		Solar factor				Ŭ	ini/person	
	alass		Saft x		Solar gain x		Solar factor		INFILTRATIC	N			
	glass		Saft x		Solar gain x		Solar factor			Vol/60 x	A	ir.Ch/hr.	
	glass		Sqft x		Solar gain x		Solar factor			Doors x	C	fm/door	
	glass		Sqft x		Solar gain x		Solar factor			Crack x	C.	fm/ft	
	glass		Sqft x		Solar gain x		Solar factor			Exh. air			
	glass		Sqft x		Solar gain x		Solar factor		NETOUTSI	de Air			
	glass		Sqft x		Solar gain x		Solar factor		EFFECTIVE	SHF AND) ADP		
	glass		Sqft x		Solar gain x		Solar factor		ESHF = EF	<u>ISH</u>			
			TRANS	AISSION O	GAINS - W	ALLS ar	nd ROOF		EF	(IH			
	Wall		Sqft x		ETD x		U value					-	
	Wall		Sqft x		ETD x		U value		Ind. ADP		Sel. ADP	=	۴F
	waii		Sqft x		EIDX		U value					ים	
	Wall		Sqn x				U value		= (I - BF) X	(RIII.DB	- Sel.AD	P)	
	Wall		Sqit x				U value					v	
	Wall		Saft x		ETDX				Eff Boom	Sensible	Heat	•	
	Wall		Saft x		FTD x		U value		$= \frac{108 \times 100}{108 \times 100}$	Dehum, ri	ise		
	Wall		Saft x		ETD x		U value					=	Cfm
Roof. sun		_	Saft x		ETD x		U value		Check Figur	26			
Roof,shaded	d		Sqft x		ETD x		U value		Saft/Ton				
,			TRANS	NISSION	GAINS - OT	HER			Cfm/saft				
All Glass			Sqft x		TempDiff x		U value		Notoo				
Non ac Part	ition		Sqft x		TempDiff x		U value		Notes.				
Non ac Part	.Glass		Sqft x		TempDiff x		U value						
Non ac Ceili	ing		Sqft x		TempDiff x		U value						
Non ac Floo	or		Sqft x		TempDiff x		U value		-				
1			INFILTR		OUTSIDE	AIR	1.00						
Infiltration		cfm x		Temp.Diff	X	I	1.08						
		ofm v		Tomp Diff			1.09						
0.A.			INTERN		X	DF X	1.00						
People		Nos x		Btu/Hr/ Pe	rson								
Power		H.P. X	ć	Btd/Til/Tic	10011		2545						
Liahts		W/kW x		Ballast fac	tor x		3.41/3410						
Appliances		W/kW x		Usage fact	or x		3.41/3410						
••				Tota	Room ser	nsible h	eat:						
Supply duct		Supply d	uct										
Heat		Leak		Fan.		Safety							
Gain %		loss %		H.P. '%		Factor %)		\bigcirc				
			EFFECT	IVE ROO	M SENSIB	LE HEA	T, ERSH		(1)				
			LATENT	HEAT					\smile				
People		Nos. x		Btur/hour/p	person		0.00						
Innitration	•	ctm x		GrainsDiff	X		0.68						
Steam	.A.	CIIII X		Grainsbill	X		1080						
Olean		ID/III X		Tota	Room late	ent heat							
		Supply d	uct	Tota		Sint nout							
		Leak				Safetv							
		Loss %				Factor %	,		2)			
			EFFECT	<u>IVE R</u> OO	M LATENT	HEAT,	ERLH		\sim				
			EFFECT	IVE ROO	M TOTAL H	HEAT, E	RTH		——(3)				
		Ουτ	SIDE AI	RHEAT							~ ^	5-	
Sens.heat		cfm x		Temp.Diff	x	(1- BF) x	1.08				TJ. AL	T.	
Latent heat		cfm x		GrainsDiff	х	(1- BF) x	0.68			NJ.E.T.F	NGINEFRIN	AL 11 6 0011 501	
Return duct		Return du	uct	-						SUNDUR,	TIRUCHIRAPA	LLI - 520 004	ĩ
Heat		Leak		Pump						/			
yaın %		10SS %		н.г. %									
TONS OF R	REFRIGERA	TION			GRAND T	OTAL H	EAT		3 + 4				

COOLING AND DEHUMIDIFYING LOAD ESTIMATE

		000											
Estimated b	y:								Location:		Season: L	ocal time:	
Dated:													
Job name:									CONDITIONS	DB (°F)	WB (°F)	RH (%)	W (gr/lb)
Address:	(Outside air				
Space used	tor:		140 111 0		0.4				Boom				
Room	Length, ft.		Width, ft.		Sq.ft. x	Height, ft		Vol., cu.ft.	Difforence				
Size		X						Dtu/Ur					
		30			22412			Blu/Hr.	OUTSIDE AI	n (U.A.)		free / C an fit	
	alass			GAING - C	Solar gain y		Solar factor			Sqit ^ People v	C	fm/person	
	glass		Saft x		Solar gain x		Solar factor			r copie x		ini/person	
	glass		Saft x		Solar gain x		Solar factor		INFILTRATIC	N			
	glass		Saft x		Solar gain x		Solar factor			Vol/60 x	А	ir.Ch/hr.	
	glass	:	Sqft x		Solar gain x		Solar factor			Doors x	С	fm/door	
	glass	:	Sqft x		Solar gain x		Solar factor			Crack x	с	fm/ft	
	glass	:	Sqft x		Solar gain x		Solar factor			Exh. air			
	glass	:	Sqft x		Solar gain x		Solar factor		NETOUTSI	de air			
	glass	:	Sqft x		Solar gain x		Solar factor		EFFECTIVE	Shf and) ADP		
	glass	:	Sqft x		Solar gain x		Solar factor		$ESHE = \frac{EF}{EF}$	RSH _			
			TRANSM	ISSION (GAINS - WA	ALLS an	d ROOF		EF	RTH			
	Wall	:	Sqft x		ETD x		U value					=	
	Wall	:	Sqft x		ETD x		U value		Ind. ADP		Sel. ADP	=	۴F
	Wall	:	Sqft x		ETD x		U value		DEHUMIDIFI	ED AIR R	ISE	-	
	Wall	:	Sqft x		ETD x		U value		=(1 - BF) x	(Rm.DB	- Sel.AD	P)	
	Wall	;	Sqft x		ETD x		U value					v	
	Wall	;	Sqft x		ETD x		U value					Y	
	Wall		Sqft x		EIDX		U value		$=$ $\frac{\text{Eff. Room}}{100}$	Sensible	Heat		
	Wall		Sqnt x		EIDX		U value		1.08 X I	Jenum. r	ise	=	Cfm
Roof cup	vvali	-	Sqit x				U value						UIII
Roof shader	ч		Sqft x							es	_		
11001,3112000	u		TRANSM	ISSION (SAINS - OT	HER	0 value		Sqn/ Ion				
All Glass			Saft x		TempDiff x		U value		Cim/sqit				
Non ac Part	ition		Saft x		TempDiff x		U value		Notes:				
Non ac Part	.Glass	:	Sqft x		' TempDiff x		U value						
Non ac Ceili	ing	:	Sqft x		TempDiff x		U value						
Non ac Floo	or	:	Sqft x		TempDiff x		U value						
			INFILTR.	ATION.&	OUTSIDE /	AIR							
Infiltration		cfm x		Temp.Diff	x		1.08						
Bypassed													
O.A.		cfm x		Temp.Diff	x	BF x	1.08						
			INTERN	AL HEAT									
People		Nos. x		Btu/Hr/ Pe	rson		0545						
Power		H.P. x					2545						
Lights		W/KW X		Ballast fac	tor x		3.41/3410						
Appliances		VV/KVV X		Usage fact	or x	oible b	3.41/3410						
Supply duct		Supply du	ct	TOLA	HUUIII SEI		. al.						
Heat		Look		Fan		Safety							
Gain %		loss %		HP '%		Eactor %							
ciain 70		1000 /0	EFFECT	IVE ROO	M SENSIBI		r. Ersh		(1)				
			LATENT	HEAT			,		\bigcirc				
People		Nos.x		Btur/hour/p	erson								
Infiltration		cfm x		GrainsDiff	x		0.68						
Bypassed O	.A.	cfm x		GrainsDiff	х	BF x	0.68						
Steam		lb/hr x					1080						
				Tota	Room late	ent heat							
		Supply du	ct										
		Leak				Safety)			
		Loss %				Factor %				/			
			EFFECT			HEAT,			\bigcirc				
						ICAI, E			3				
Sone hoot			SIDE AIF		v	(1_ DE)	1 / 0		-				_
Latent host		ofm Y		Graine Diff	x v		0.00				n.	lof	
Return duct		Roturn du	ct	GrainsDiff	^	(I- DF) X	0.00				PRINC	IPAL 1	
Heat		l eak	01	Pump					(4) GUND	1. ENGINEE UR, TIRLICHIA	MING COLL	EGE AG/
gain %		loss %		H.P. %						· ····			~
		TIO::			0 D 1 1								
TONS OF R	EFRIGERA	TION			GRAND T	OTAL H	EAT		3 + 4				



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Report on the Event

Department of Mechanical Engineering

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S.No	Description	Commen	ts Para
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 families the HVAC fundamentals, d expertise in load calculations, equipment Stay updated on energy efficiency st technologies for effective collaboration a	esign, and troubleshooting with t selection, and airflow analysis. tandards, codes, and emerging and sustainable practices.
10	Topic(s) Covered	 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 Siz BETA Software Ducting - Types, Fittings. Ducting - Sizing (Formula , Chart a Toilet Ventilation Kitchen Ventilation Car parking Ventilation VRF&Chillers HVAC Drafting - Air Terminal and 	zing - Using Data Sheet and and Software) Ducting

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AM Event Co-Ordinator(s)

HoD

J-h Principal

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W.A.E.T. ENGINEERING COLLEGE SUNDUR, TIRUCHIRAPALLI - 520 01/









- Training | Placement | Consultant ----

<u>Course Completion</u>



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, Tíruchirappalli.



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Finishing School for Engineering Graduates

ING ACADEMY Pvt. Ltd..

Course Completion

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.















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Finishing School for Engineering Graduates Training | Placement | Consultant -

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Course Completion

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This is to certify that

Mr. SHAFEEK AHAMED A

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

MEP - HVAC TIBUCHIBAPALLI - 520 004 **Design and Training**

held from 25th, Oct 2023 to 03rd, Nov 2023 (36 hours) at M.I.E.T. Engineering College, Tiruchirappalli.











EERING COLLEGE















- Training | Placement | Consultant _____

Course Completion



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, Tiruchirappalli.



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Issued @ T November 2

















Training | Placement | Consultant -

RING ACADEM

Course Completion



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





MJ.E.T. ENGINEERING COLI

























— Training | Placement | Consultant -

Course Completion

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 (36 hours) at M.I.E.T. Engineering College, Tíruchirappalli.





GUNDUR, TIRUCHIRAPALLI - 520 004

Principal











J.E.T. ENGINEERING COLLEGE









Training | Placement | Consultant -

RING ACADEMY Pvt. Ltd.,

Course Completion



This is to certify that

Mr. VIJAY 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.





T. ENGINEERING COLLEGE GUNDUR, TIRUCHIRAPALLI - 520 004



















– Training | Placement | Consultant —

Course Completion



This is to certify that

Mr. GNANARAJ D

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.



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T. ENGINEERING COLLEGE UNDUR, TIRLICHIRAPALLI - 620 004


















----- Training | Placement | Consultant -----

Course Completion

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

held from 25th,Oct 2023 to 03rd,Nov 2023 (36 hours) at M.I.E.T. Engineering College, Tíruchírappalli.



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Managing Director (Unique Groups)

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Principal





















Course Completion

This is to certify that

Mr. ARUN KUMAR 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.

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Managing Director (Unique Groups)



















Training | Placement | Consultant

Course Completion



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

held from 25th, Oct 2023 to 03rd, Nov 2023 (36 hours) at M.I.E.T. Engineering College, Tíruchírappallí. NCIPAL



lssued @ Ti November 2

Managing Director (Unique Groups)

UJ.E.T, ENGINEERING COLLEGE GUNDUR, TIRUCHIRAPALLI - 520 004

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Course Completion

This is to certify that

Mr. MOHAMED ASHIQ MY

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, Tíruchírappallí.

PRINCIPAL MJ.E.T. ENGINEERING COLLEGE GUNDUR, TIRUCHIRAPALLI - 520 004



Managing Director (Unique Groups)

















Training | Placement | Consultant ____

Course Completion

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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

MEP - HVAC Design and Training

held from 25th,Oct 2023 to 03rd,Nov 2023 (36 hours) at M.I.E.T. Engineering College, Tíruchirappalli.

> Managing Director (Unique Groups)





















Training | Placement | Consultant -----

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Course Completion

This is to certify that

Mr. BHARATHVAJ 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.

> Managing Directór (Unique Groups)

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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	Program on Value added course on MEP - HVAC Design Training						
Date (s))& Time	25.10.2023 to 31.1	0.2023.				
Venue	·	CAD/CAM Labora M.I.E.T. Engineeri	ntory, ng college				
Resourc	ce Person	1. Er. A.IMR BIM Man 2. Er.P.KAM Senior Design En Unique MEP Eng	AN SHEF ager, IL gineer, ineering A	UFF	Pvt. Ltd. (Chennai	
	Rating	E: Exc	E: Excellent			Good	G: Good
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2	Presentation						
3	Materials/ Tools	used	\checkmark				
4	Organization of	the talk		V			
5	Usefulness		\checkmark				
6	Relevance of the	e topic discussed	V				
7	Time Manageme	ent .	V				
8	Making the sessi	ion Interesting	\checkmark				
9	Arrangements (waccess and refree	venue suitability, shments)	\checkmark				
10	Overall rating		\checkmark				
Topic y	ou liked the most		H	AP So	frak	Jutor	ial.
Suggestions to improve the program further			elobrate the day to				ent
Date	27.11.23	27.11.23 Signature & Name (Optional) M.H. Jamal Mohar				mal M	Ishamed

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DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course

MEP - HVAC Design Training

Participant Feedback Form

Program	n on	Value added cours	e on MEP	- HVAC I	Design				
	· ·	1 raining	0 2023						
Date (s)	& Time	25.10.2025 10 51.1	0.2023.						
Venue		CAD/CAM Labora	atory,						
		M.I.E.T. Engineeri	ing college						
Resourc	e Person	1. Er. A.IMR	AN SHE	UFF	,				
		BINI Man	/lanager,						
	·	2. EI.F.NAM	2. Er. F.KAMIL Senier Design Engineer						
		Unique MEP Eng	ineering A	cademv	Pvt. Ltd. C	Chennai			
		E: Exe	cellent	<u>_</u>	V: Very	Good (G: Good		
	Rating	S: Satis	factory		N:N	ot Satisfac	tory		
C NL	D		Plea	se tick in	the approp	oriate colu	umns		
5.N0	Para	ameter	E	VG	G	S	NS		
1	Contents				V				
2	Presentation			\checkmark		_			
3	Materials/ Tools	used			1				
4	Organization of	the talk							
5	Usefulness								
6	Relevance of the	e topic discussed				V			
7	Time Manageme	ent							
8	Making the sess	ion Interesting			6				
9	Arrangements (v	venue suitability,							
	access and refres	shments)							
10	Overall rating								
Topic y	ou liked the most		HAP	Soltwa	S.L.	•			
Suggestions to improve the program further		The heave the way to us efield, the course of purch							
Date	27/11/23	Signature &Name	(Optional)	5). GINAN,	ARAJ			

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DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course

MEP - HVAC Design Training

Participant Feedback Form

Progran	Program on Value added con Training			- HVAC I	Design			
Date (s)	& Time	25.10.2023 to 31.1	0.2023.	····· · · · · · · · · · · · · · · · ·				
Venue		CAD/CAM Labora M.I.E.T. Engineer	atory, ing college					
Resourc	e Person	1. Er. A.IMF	RAN SHERIFF					
		BIM Man	nager,					
	· .	2. Er.P.KAMIL						
		Senior Design En	gineer,		D (T () (• •		
		Unique MEP Eng	ineering A	Academy	Pvt. Ltd. C	hennai		
Rating		E: Ex	cellent		V: Very C	DOOL	G: Good	
· · · · · · · · · · · · · · · · · · ·		S: Satis	stactory		N:N:	ot Satisiac	tory	
S.No	Parameter		Fleas	Se tick in	the appro	S S		
1	Contents			W		5		
2	Presentation							
3	Materials/ Tools	used						
4	Organization of	the talk						
5	Usefulness							
6	Relevance of the	e topic discussed						
7	Time Manageme	ent						
8	Making the sess	ion Interesting						
9	Arrangements (v	venue suitability,						
	access and refre	shments)	-					
10	Overall rating							
Topic y	ou liked the most	·	Delign and analyze the buildings & Rooms					
: Suggestions to improve the program further			Elaborate new topic about the				the	
Date 27/1/23 Signature & Name (Optional) I: Multiply.								





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DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course

MEP - HVAC Design Training

Participant Feedback Form

Program	n on	Value added cours Training	e on MEP	- HVAC I	Design			
Date (s))& Time	25.10.2023 to 31.1	0.2023.					
Venue		CAD/CAM Labor M.I.E.T. Engineer	atory, ing college	;				
Resourc	ce Person	1. Er. A.IMF BIM Man 2. Er.P.KAM Senior Design En Unique MEP Eng	.IMRAN SHERIFF Manager, KAMIL n Engineer, P Engineering Academy Pvt. Ltd. Chennai					
Rating		E: Ex	cellent		V: Very	Good	G: Good	
		5: Sau	Plea	se tick in	the approx	or Satisi nriate co	actory	
S.No	Par	ameter	E	VG	G	S	NS	
1	Contents							
· 2	Presentation							
3	Materials/ Tools	sused			~			
4	Organization of	the talk			~			
5	Usefulness				-			
6	Relevance of the	e topic discussed						
7	Time Managem	ent						
8	Making the sess	ion Interesting				~		
9	Arrangements (vaccess and refre	venue suitability, shments)			/			
10	Overall rating							
Торіс у	ou liked the most					•	•	
Suggestions to improve the program further								
Date	27-41.2	Signature &Name	(Optional)	8	Duby -			





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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	ram on Value added course on MEP - HVAC Design Training									
Date (s)& Time	25.10.2023 to 31.	10.2023.							
Venue		CAD/CAM Labor M.I.E.T. Engineer	atory, ing college	2		· ·				
Resource	ce Person	1. Er. A.IMI	Er. A.IMRAN SHERIFF							
		BIM Mar	iager,							
		2. Er.P.KAN	/IIL							
		Senior Design Engineer,								
		Unique MIEP Eng	Unique WEP Engineering Academy Pvt. Ltd. Chennai							
Rating		E. EX S: Sati	sfactory		V: Very	0000	G: Good			
		5. 5ati	Plea	se tick in	the annro	nriate col	umns			
S.No	Para Para	ameter	E	VG	G	S	NS			
1	Contents		V							
2.	Presentation			\checkmark						
3	Materials/ Tools	used				.	1			
4	Organization of	the talk			\checkmark					
5	Usefulness	· · · · · · · · · · · · · · · · · · ·			\checkmark		·			
6	Relevance of the	topic discussed			\checkmark					
7	Time Manageme	ent			~					
8	Making the sessi	on Interesting			\checkmark		<u> </u>			
9	Arrangements (v	enue suitability,			V					
10	Overall rating	sinnents)	. –							
Topic y	ou liked the most	•			.1		· · ·			
Suggest	Suggestions to improve the program further									
Date 27/11/23 Signature & Name			(Optional)	Re	Pontying	-				

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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.

Progran	n on	Value added cours	se on MEP	- HVAC	Design				
Date (s)	& Time	25.10.2023 to 31.1	0.2023.						
Venue		CAD/CAM Labor	atory,						
Resourc	e Person	1 Er A IME	AN SHEE	IFF					
Resourc		BIM Man	IM Manager.						
		2. Er.P.KAN	IIL						
		Senior Design En	gineer,						
		Unique MEP Eng	gineering A	cademy	Pvt. Ltd. C	hennai			
Dating		E: Ex	cellent		V: Very C	Good	G: Good		
	Kaung	S: Sati	sfactory		N:No	ot Satisfa	ctory		
S No	Par	ameter	Pleas	se tick in	the approp	oriate col	umns		
5.10	1 41		E	VG	G	S	NS		
1	Contents								
2	Presentation								
3	Materials/ Tools	used							
4	Organization of	the talk		18					
5	Usefulness		\land						
6	Relevance of the	e topic discussed	~		•				
7	Time Manageme	ent		-					
8	Making the sess	ion Interesting							
9	Arrangements (v	enue suitability,							
•	access and refre	shments)	1	'	• .				
10	Overall rating								
Topic y	ou liked the most		×						
Suggestions to improve the program further									
Date	27.11.23	Signature &Name	(Optional)		Ronf				

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M.I.E.T. ENGINEERING COLLEGE

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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	n on '	Value added course	Value added course on MEP - HVAC Design							
B		Training								
Date (s)	& Time	25.10.2023 to 31.1	0.2023.							
Vanua		CAD/CAM Labora	ratory,							
venue	•	M.I.E.T. Engineeri	ng college							
Resourc	e Person	1. Er. A.IMR	AN SHEF	RIFF						
		BIM Man	ager,							
		2. Er.P.KAM	\mathbf{L}							
		Senior Design Eng	gineer,		D / T / L /					
		Unique MEP Eng	ineering A	cademy	Pvt. Ltd. C	hennai	0.0.1			
Rating		E: Exc	cellent		V: Very (G: Good			
	-			na tialt in	IN:IN(stactory			
S.No	Parameter		E VG G S							
1	Contents		\sim							
2	Presentation		\sim							
3	Materials/ Tools	used	\wedge							
4	Organization of	the talk	\sim							
5	Usefulness		\sim							
6	Relevance of the	e topic discussed	\wedge			-				
7	Time Manageme	ent	<u> </u>							
8	Making the sessi	ion Interesting								
9	Arrangements (water access and refree	venue suitability, shments)	~							
10	Overall rating		~							
Topic y	ou liked the most		•		· · · · · · · · · · · · · · · · · · ·					
Suggest	Suggestions to improve the program further				•		•			
Date	2-7.11.23	Signature &Name	(Optional)		9.00000	<u> </u>	- * p. m.			

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DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course

MEP - HVAC Design Training

Participant Feedback Form

Progran	1 on	Value added course on MEP - HVAC Design							
Date (s)	& Time	25.10.2023 to 31.1	0.2023.						
17		CAD/CAM Labora	atory,			· ·			
Venue		M.I.E.T. Engineeri	ing college	:					
Resourc	e Person	1. Er. A.IMRAN SHERIFF							
		BIM Man	BIM Manager,						
		2. Er.P.KAM	IIL						
		Senior Design Engineer,							
		Unique MIEP Eng	ineering A	Academy	V. Vom	Cood	<u>C: Cood</u>		
Rating		E: EX	E: Excellent			ot Satisfac	tory		
		5. 5418	Plea	se tick in	the appropriate columns				
S.No	Par	ameter	· E	VG	G	S	NS		
1	Contents								
2	Presentation	· · · · · · · · · · · · · · · · · · ·	1						
3	Materials/ Tools	used		· · · ·					
4	Organization of	the talk	~						
5	Usefulness		/						
6	Relevance of the	e topic discussed							
7.	Time Managem	ent			- /		•		
8	Making the sess	ion Interesting		۶					
9	Arrangements (v	venue suitability,					1		
	access and refre	shments) .							
10	Overall rating			-					
Topic y	ou liked the most								
Suggestions to improve the program further		he program further							
Date 27/11/2023 Signature & Name (Optional)					St - E.V.A		·		

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DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course

MEP - HVAC Design Training

Participant Feedback Form

Progran	n on	Value added course Training	e on MEP	- HVAC	Design		
Date (s)	& Time	25.10.2023 to 31.1	0.2023.		, .	•	
Venue		CAD/CAM Labora M.I.E.T. Engineeri	itory, ng college	;			
Resourc	ce Person	1.Er. A.IMRBIM Man2.Er.P.KAMSenior Design EngUnique MEP Eng	AN SHEI ager, IL gineer, ineering A	RIFF	Pvt. Ltd. (Chennai	
Rating		E: Exc	cellent		V: Very	Good	G: Good
		S: Satis	Plea	se tick in	IN:IN the annro	ot Satisia priate co	actory
S.No	Par	ameter	E	VG	G	S	NS
1	Contents			1			
2	Presentation	-					
3	Materials/ Tools	sused					
4	Organization of	the talk			/		2
5	Usefulness						
6	Relevance of the	e topic discussed					
7 '	Time Managem	ent			,	~	
- 8	Making the sess	ion Interesting			~		
9	Arrangements (v access and refre	venue suitability, shments)			~		
10	Overall rating				 / 		
Topic y	ou liked the most			•			
Suggestions to improve the program further		•					
Date	27/11/23	Signature &Name	(Optional)	54	winder		

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DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course

MEP - HVAC Design Training

Participant Feedback Form

Program	1 on	Value added cours	e on MEP	- HVAC	Design		
Date (s)	& Time	25.10.2023 to 31.1	0.2023.				
Venue		CAD/CAM Labora	atory,				
Venue		M.I.E.T. Engineeri	ng college				
Resourc	e Person	1. Er. A.IMR	AN SHEI	RIFF			
		BIM Man	ager,				
		2. Er.P.KAM	llL rimoon		•		
		Unique MEP Eng	gineer, ineering /	codemy	Pyt Ltd (Channai	
<u></u>		F' Fx	rellent	Lauciny	V· Verv	Good	G: Good
Rating		S: Satis	factory		N:N	lot Satisfa	ctory.
a N			Plea	se tick in	the appro	priate co	lumns
S.No	Para	ameter	Е	VG	G	S	NS
1	Contents						
2	Presentation						
3	Materials/ Tools	used		\checkmark			
4	Organization of	the talk				V	
5	Usefulness		•	\checkmark			
6	Relevance of the	topic discussed		\checkmark			
7	Time Manageme	ent					
8	Making the sessi	ion Interesting	· · ·				
9	Arrangements (v	enue suitability,					
	access and refres	shments)					
10	Overall rating			\checkmark	•		
Topic y	ou liked the most		•				•
Suggestions to improve the program further		·				•	
Date	27/4/23	Signature &Name	(Optional)				





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DEPARTMENT OF MECHANICAL ENGINEERING

Value Added Course

MEP - HVAC Design Training

Participant Feedback Form

Program	Program on Value added con Training			- HVAC I	Design			
Date (s)	& Time	25.10.2023 to 31.1	0.2023.					
Vanua		CAD/CAM Labora	itory,					
venue		M.I.E.T. Engineeri	ng college					
Resourc	e Person	1. Er. A.IMR	AN SHEF	RIFF				
		BIM Man	ager,					
		2. Er.P.KAM	IL					
		Senior Design Eng	gineer,					
		Unique MEP Eng	ineering A	cademy	Pvt. Ltd. C	hennai		
Rating		E: Exc	cellent		V: Very G	iood (d: Good	
	1	S: Satis	factory		N:No	t Satisfac	sfactory	
S.No	Para	Parameter Please tick in the ap				propriate columns		
			<u>.</u>	VG	6	<u> </u>	<u> </u>	
	Contents				\neg			
2	Presentation							
3	Materials/ Tools	used						
4	Organization of	the talk						
5	Usefulness		•					
6	Relevance of the	topic discussed		$ \sim $				
7	Time Manageme	ent						
8	Making the sess	ion Interesting		\neg				
9	Arrangements (v	venue suitability,						
:	access and refree	shments)		1		,		
10	Overall rating							
Topic y	ou liked the most	· · · · · · · · · · · · · · · · · · ·	Aih, C	onditio	oning	,		
Suggestions to improve the program further		PAR	atical	Session	×			
Date	27/11/23	Signature &Name	(Optional)	\mathcal{S}	Jarquese	roph	•	

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