



# VIMAL JYOTHI ENGINEERING COLLEGE

**JYOTHI NAGAR, CHEMPERI – 670632, KANNUR, KERALA**

Affiliated to APJ Abdul Kalam Technological University, Approved by AICTE  
ISO 9001 : 2015 Certified | Accredited by Institution of Engineers (India), NBA, NAAC  
Ph: 0490 2212240, 2213399 Email: office@vjec.ac.in Website: www.vjec.ac.in

**NAAC Cycle 2**

**Criterion: 1.2.1**

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# VIMAL JYOTHI ENGINEERING COLLEGE

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Under the Archdiocese of Thalassery

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## Department of Mechanical Engineering

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### Vision

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To become a center of excellence in Mechanical Engineering, producing innovative and creative mechanical engineers to meet the global challenges.

### Mission

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- To provide a platform to the students towards attaining quality education in Mechanical Engineering.
- To educate students about professional & ethical responsibilities and train them to build leadership and entrepreneurship qualities for their career development.
- To create opportunities and guide students in acquiring career oriented jobs in the field of Mechanical Engineering.



## Program Educational Objectives (PEO's)

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**PEO1:** Graduates will be able to pursue successful professional career in Mechanical Engineering with sound technical and managerial capabilities.

**PEO2:** Graduates will have skills and knowledge to formulate, analyze and solve problems in mechanical engineering to meet global challenges.

**PEO3:** Graduates will be capable of pursuing mechanical engineering profession with good communication skills, leadership qualities, team spirit and professional ethics to meet the needs of the society.

**PEO4:** Graduates will sustain an appetite for continuous learning by pursue higher education and research in the allied areas of science and technology.

## Program Outcomes (PO's)

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**PO1:** Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO2:** Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**PO3:** Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations

**PO4:** Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions

**PO5:** Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations

**PO6:** The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**PO7:** Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.



**PO8:** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice

**PO9:** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO10:** Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions

**PO11:** Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**PO12:** Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

### Program Specific Outcomes (PSO's)

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**PSO1:** An ability to use computer aided modeling and simulation tools to provide solutions to mechanical engineering problems.

**PSO2:** An ability to develop and implement a process in a well-planned manner leading to a demonstrable product.





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**DEPARTMENT OF MECHANICAL ENGINEERING**  
**VIMAL JYOTHI ENGINEERING COLLEGE, CHEMPERI**  
**ADD-ON COURSE REPORT**

An Add-on Course on BIM Tools- Revit MEP, Inventor was organized from 31st January 2023 to 5th February 2023 at the CAD/CAM lab of the Mechanical department. The aim of this course was to provide additional training to the 8th semester students on various aspects of mechanical engineering using BIM tools- Revit MEP and Inventor. The course covered five topics, including heat load calculation, HVAC modelling and documentation, plumbing modelling and documentation, electrical systems modelling and documentation, and mechanical 3d modelling using Inventor.

This report provides a summary of the course activities and its outcomes:

**Day 1 (31<sup>st</sup> Jan):** Heat load calculation The course began with an introduction to heat load calculation using Revit MEP. The trainer explained the basics of heat load calculation and its importance in mechanical engineering. The students learned how to use Revit MEP for heat load calculation and were given practical examples to work on. The trainer also discussed the various factors that affect heat load calculation, including the type of building, the type of materials used in construction, and the location of the building. By the end of the day, the students had a good understanding of heat load calculation and how to use Revit MEP for it.

**Day 2 (1<sup>st</sup> Feb):** HVAC modelling and HVAC documentation On the second day of the course, the students were introduced to HVAC modelling and documentation using Revit MEP. The trainer explained the importance of HVAC modelling and documentation in the efficient design of HVAC systems. The students were given hands-on training on how to create HVAC models in Revit MEP and how to generate documentation for the same. The trainer also discussed the various components of HVAC systems and their functions. By the end of the day, the students were able to create basic HVAC models and generate documentation for them.

**Day 3 (2<sup>nd</sup> Feb):** Plumbing modelling and plumbing documentation The third day of the course focused on plumbing modelling and documentation using Revit MEP. The trainer explained the basics of plumbing systems and their components. The students were given hands-on training on how to create plumbing models in Revit MEP and how to generate documentation for the same. The trainer also discussed the importance of plumbing documentation in ensuring the efficient functioning of plumbing systems. By the end of the day, the students were able to create basic plumbing models and generate documentation for them.

**Day 4 (3<sup>rd</sup> Feb):** Electrical systems modelling and electrical documentation On the fourth day of the course, the students were introduced to electrical systems modelling and documentation using Revit MEP. The trainer explained the basics of electrical systems and their components. The students were given hands-on training on how to create electrical models in Revit MEP and how to generate documentation for the same. The trainer also discussed the various types of electrical systems used in buildings and their

*J. J. J.*



functions. By the end of the day, the students were able to create basic electrical models and generate documentation for them.

**Day 5 (4<sup>th</sup> Feb):** Mechanical 3d modelling using inventor and final assessment test The final day of the course focused on mechanical 3d modelling using Inventor. The students were given an introduction to Inventor and its various tools for 3d modelling. The trainer explained how to create 3d models using Inventor and how to generate documentation for the same. The students were given practical examples to work on, and they were able to create basic 3d models by the end of the day. The course concluded with a final assessment test, which evaluated the students' understanding of the concepts taught during the course.

The Add-on Course on BIM Tools- Revit MEP, Inventor was a success, with a total of 63 participants from the 8th semester of the mechanical department. The course provided the students with hands-on training on various aspects of mechanical engineering, including heat load calculation, HVAC.

*Shaminmuth*  
06/02/23

COURSE CO-ORDINATOR:

SHAMINMUTH KK

*Raju*  
06/02/23

HEAD OF THE DEPARTMENT:

CDR. RAJU KK



## Workshop on BIM Tools- Revit MEP, Inventor

### Syllabus

Day 1
<b>MULTI-DISCIPLINARY COORDINATION</b>
Linking Revit projects & Copy Monitoring
Link/Import Architectural model
Copy/Monitor- Levels & grids
Link/Import AutoCAD file, Visibility Graphics
Coordination Settings & Managing Project Links
Default Coordination Settings
Copy Behaviors and Mapping Behaviors
Add, Remove, Unload and Reload Linked Models
Manage Links Dialog
Tools to Manage Links
Creating MEP Views
Open MEP Project Templates
View templates, View Filter
Graphics Overrides
Filter & Object styles
Coordination settings, coordination review
Manage links
Create floor plans, ceiling plans, 3D, elevations, sections
<b>HEAT LOAD CALCULATION</b>
<b>Space, Zones, Cooling Load calculation</b>
Create and Modify Spaces
Space properties
Viewing and Selecting Spaces
Create and Edit Zones
Viewing and Selecting Zones
Zone Properties
Performing a Heating and Cooling Loads Analysis
Use heating and cooling loads analysis to determine HVAC system requirements and design the systems

*Shammi*



Day 2

**HVAC MODELLING**

**HVAC MODELING**

Ducts-Rectangular, Round and oval ducts

Routing Preferences

Duct Placeholder

Duct fittings

Duct Accessories

Flex Duct

Convert to flex duct

HVAC settings

Mechanical equipment

Placing Air terminals

Create systems(duct system)

Duct Sizing Using Mcquay Duct Sizer

Supply Air System and Return Air system

System Browser

Edit Duct s/m

System Tools

Duct insulation

Duct Lining

Justification

Cap open ends

**ASSESSMENT**

**HVAC DOCUMENTATION**

**Preparation of HVAC Layouts & Schedules**

Dimensions and tag

Space Schedule

Air Terminal Schedule

Duct Schedule, Duct Fittings Schedule

Sheets



Day 3

**PLUMBING MODELLING**

**PLUMBING SYSTEMS MODELLING**

Introduction to plumbing

View templates

Settings

Different types of pipe

Routing preferences

Pipe fittings and accessories

Pipe place holder

Convert placeholder

Parallel pipes

Flex pipe

Plumbing fixture

Create system

Domestic cold water system and Domestic hot water system

Sanitary system

Connectors

System inspector

**ASSESSMENT**

**PLUMBING DOCUMENTATION**

Domestic cold water, domestic hot water, Sanitary layouts

Pipe Schedule, Pipe Fittings Schedule

Plumbing Fixtures Schedule

Sheets

Day 4

**ELECTRICAL SYSTEMS MODELLING**

**LIGHTING AND POWER SYSTEMS**

Introduction to Electrical Systems

Electrical Templates & units

Electrical settings

Electrical Lighting Analysis, Dialux, Relux

Illumination

Electrical fixture Properties



Placing Lighting fixture
Ceiling and wall based Lights
Placing switches, Receptacles
Conduits
Routing preferences
Conduit Fittings
Parallel conduits
Cable tray and fittings
Create switch system
Create Power system
System tools
Convert to wires
Shared parameters
Electrical connectors
Legend
<b>ASSESSMENT</b>
<b>ELECTRICAL DOCUMENTATION</b>
Panel Schedule
Conduit Schedule
Conduit Fittings Schedule
Lighting Fixture Schedule
Sheets

Day 5
<b>MECHANICAL 3D MODELING USING INVENTOR</b>
<b>Introduction to Inventor</b>
Parametric modeling with Inventor
BIM Families in Inventor
Export to Revit





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## DEPARTMENT OF MECHANICAL ENGINEERING VIMAL JYOTHI ENGINEERING COLLEGE, CHEMPERI MEAD801: BIM TOOLS CO-PO-PSO MAPPING

### Course outcomes:

**CO1:** Students will be able to create, modify, and edit building spaces in Autodesk Revit to perform heating and cooling load analysis and determine HVAC system requirements. They will be able to design an HVAC system that meets industry standards and satisfies the building's requirements.

**CO2:** Students will be able to design ducts, duct fittings, air terminals, and air supply systems using HVAC modeling tools in Autodesk Revit. They will be able to ensure that the HVAC system is efficient, effective, and meets industry standards.

**CO3:** Students will be able to create, modify, and edit plumbing and electrical systems in a building using Autodesk Revit. They will be able to inspect these systems for errors and ensure that they meet the building's requirements and industry standards.

**CO4:** Students will be able to develop proficiency in mechanical three-dimensional modeling using parametric modeling tools in Autodesk Inventor. They will be able to use these tools to create complex mechanical models that are efficient, accurate, and meet industry standards.

### PO2, PO3, PO5, PO10, PSO1, PSO2

CO/POs	PO2	PO3	PO5	PO10
CO1	3			
CO2		3		
CO3			3	
CO4				3

CO/POs	PSO1	PSO2
CO1	3	3
CO2	3	3
CO3	3	3
CO4	3	3

### CO: PO Mapping:

#### Justification:

**CO1:PO2** - Creating, modifying, and designing HVAC systems requires an understanding of fundamental principles of mathematics, science, and engineering to ensure that the systems meet industry standards and building requirements.

**CO2:PO3** - Design and conduct experiments, as well as to analyze and interpret data. Justification: Designing HVAC systems requires experimentation, analysis, and interpretation of data to ensure that the systems are efficient, effective, and meet industry standards.

**CO3:PO5** - Creating, modifying, and inspecting plumbing and electrical systems requires an understanding of first principles of mathematics, natural sciences, and engineering sciences to ensure that the systems meet industry standards and building requirements.

CO-PO Mapping & Justification





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**CO4:PO10** - Developing proficiency in mechanical three-dimensional modeling using parametric modeling tools requires the application of appropriate techniques and resources, as well as an understanding of the limitations of these tools, to create complex mechanical models that meet industry standards.

### CO: PSO Mapping:

#### Justification:

**PSO1: An ability to use computer aided modeling and simulation tools to provide solutions to mechanical engineering problems.**

**Mapping with CO1:** The ability to use Autodesk Revit to perform heating and cooling load analysis, and determine HVAC system requirements, involves the use of computer-aided modeling and simulation tools. Thus, CO1 aligns with PSO1 as it focuses on utilizing computer-aided modeling tools for HVAC design.

**Mapping with CO2:** Designing ducts, duct fittings, air terminals, and air supply systems requires the use of computer-aided modeling tools to ensure that the HVAC system is efficient and effective. Therefore, CO2 aligns with PSO1 as it emphasizes the use of simulation tools for designing HVAC systems.

**Mapping with CO3:** Creating, modifying, and inspecting plumbing and electrical systems using Autodesk Revit involves the use of computer-aided modeling tools for simulation and analysis. Thus, CO3 aligns with PSO1 as it highlights the use of computer-aided tools for the inspection of building systems.

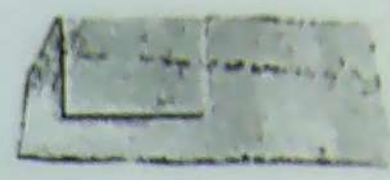
**Mapping with CO4:** Developing proficiency in mechanical three-dimensional modeling using parametric modeling tools in Autodesk Inventor requires the use of computer-aided modeling and simulation tools. Therefore, CO4 aligns with PSO1 as it emphasizes the use of computer-aided tools for mechanical modeling.

**PSO2: Ability to develop and implement a process in a well-planned manner leading to a demonstrable product.**

- **Mapping with CO1:** The design of HVAC systems involves the development of a well-planned process that leads to a demonstrable product, i.e., an HVAC system that meets the building's requirements. Therefore, CO1 aligns with PSO2 as it highlights the importance of a well-planned process in HVAC design.
- **Mapping with CO2:** The design of ducts, duct fittings, air terminals, and air supply systems involves the development of a well-planned process that leads to a demonstrable product, i.e., an efficient and effective HVAC system. Thus, CO2 aligns with PSO2 as it emphasizes the importance of a well-planned process in HVAC system design.
- **Mapping with CO3:** The creation, modification, and inspection of plumbing and electrical systems require the development of a well-planned process that leads to a demonstrable product, i.e., systems that meet the building's requirements and industry standards. Thus, CO3 aligns with PSO2 as it highlights the importance of a well-planned process in building system design.
- **Mapping with CO4:** The development of mechanical three-dimensional models using parametric modeling tools in Autodesk Inventor involves the development of a well-planned process that leads to a demonstrable product, i.e., accurate and efficient mechanical models. Therefore, CO4 aligns with PSO2 as it emphasizes the importance of a well-planned process in mechanical modeling.

*J. Harris*





From

Dr. Jithin E. V,  
Associate Professor,  
Department of Mechanical Engineering,  
Vimal Jyothi Engineering College, Chemperi

18-01-2023

To

The Principal,  
Vimal Jyothi Engineering College, Chemperi

SB

Sub: Proposal to conduct add-on course for 6<sup>th</sup> semester B-Tech Mechanical Engineering students.

Dear Sir,


An add on course is planned to be conducted for 6<sup>th</sup> semester Mechanical Engineering students by BIMLABS. The objective of the course is to acquire knowledge in Revit MEP, Inventor.

The training fee for each batch is Rs. 30,000 for the program. It is requested that necessary action may be initiated at the earliest.

Enclosure:

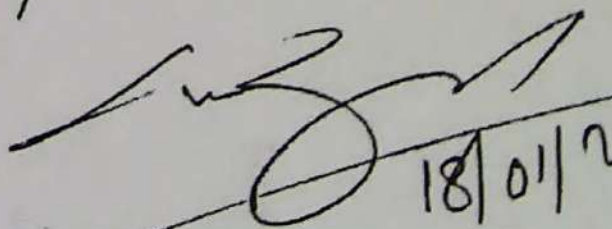
- 1. Event proposal form
- 2. Tentative schedule

Yours Sincerely

  
Dr. Jithin E. V 18/01/2023


Recommend

06 February 2023 to 09 February 2023

  
18/01/2023

  
18/1





Sanction letters



18-01-2023

From  
Mr. Midhun Mukundan,  
Assistant Professor,  
Department of Mechanical Engineering,  
Vimal Jyothi Engineering College, Chemperi

SS MT

To  
The Principal,  
Vimal Jyothi Engineering College, Chemperi

Sub: Proposal to conduct add-on course for 8<sup>th</sup> semester B-Tech Mechanical Engineering students.

Dear Sir,

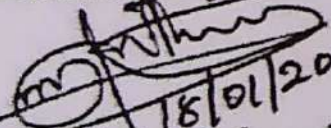
An add on course is planned to be conducted for 8<sup>th</sup> semester Mechanical Engineering students by BIMLABS. The objective of the course is to acquire knowledge in Revit MEP, Inventor.

The training fee for each batch is Rs. 30,000 for the program. It is requested that necessary action may be initiated at the earliest.

Enclosure:

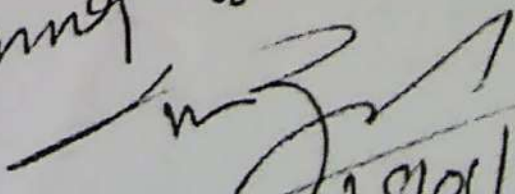
1. Event proposal form
2. Tentative schedule

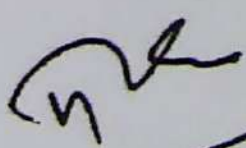
Yours Sincerely

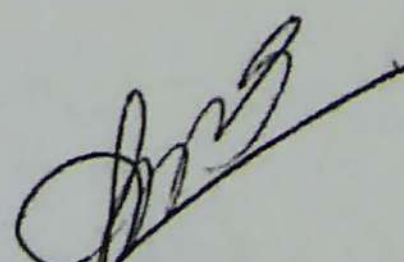
  
18/01/2023  
Mr. Midhun Mukundan

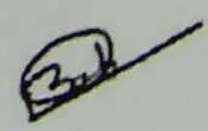
Recommended

30<sup>th</sup> Feb -  
30<sup>th</sup> Jan 15 03 15 2023

  
18/01/2023









From

Mejo M Francis

AP ME.

Tutor S4 ME (2021-25) Batch

S31 ME

To

Principal

Vimal Jyothi Engineering College

Subject: Proposal for Add on Course in Industrial Robotics & Internet of Things for S4 ME Students

Sir

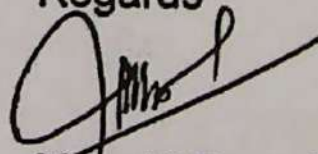
This is to inform you that ME Department is organizing an Add on Course in Industrial Robotics & Internet of Things for S4 ME (2021-25) students from 6<sup>th</sup> to 10 Feb 2023, in association with Klein Robotics Thrissur. The detailed proposal is attached with this letter. In this regard the training center is charging an amount of Rs 1500 /- per student for the add-on course. The total amount for the program is Rs 40000/- This includes training fee 36000 (for 24 students) and the transportation charges Rs 4000/- for the two resource persons.

I kindly request to you approve the add on course proposal and sanction the amount

18<sup>th</sup> Jan 2023

VJEC

Regards

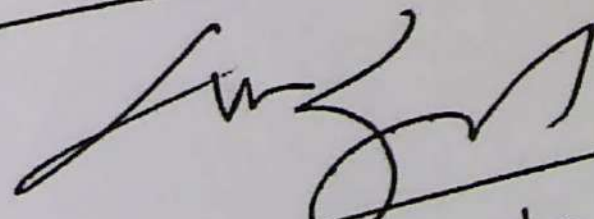


Mejo M Francis

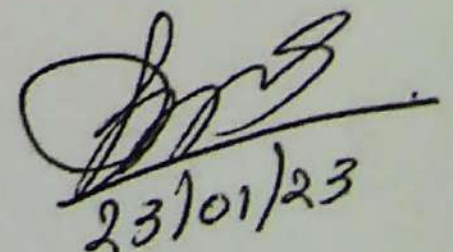
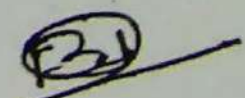
AP ME

Accommodation - 221 x 1500  
Food for officials.  
Accommodation -

Recommended



18/01/2023

  
23/01/23



**From**

10-02-2023

**Dr. Jithin E. V,**

**Associate Professor,**

**Department of Mechanical Engineering,**

**Vimal Jyothi Engineering College, Chemperi**

**To**

**The Bursar,**

**Vimal Jyothi Engineering College, Chemperi**

**Sub: Payment of training fee for add-on course conducted for S8 ME students.**

Dear Sir,

The add-on course planned for 8<sup>th</sup> semester Mechanical Engineering students by BIMLABS was completed on 03/02/2023 Friday. Since the course is completed, it is requested to release the training fee, Rs. 30,000 /- at the earliest.

The account details are given below.

Account number: **268505500093**

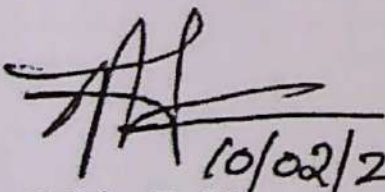
Account Name: **BIMLABS ENGINEERING SERVICES PRIVATE LIMITED**

Branch: **Thrikkakara**

IFSC: **ICIC0002685**

Kindly do the needful.

Yours Sincerely

  
10/02/23  
Dr. Jithin E. V

  
  
10/02/23



Academic Year	2022-23	MEAD801: BIM TOOLS LIST OF PARTICIPANTS
Degree ID	B.Tech	
Department ID	ME	
Semester	8	
Scheme	Scheme 2019	
Section	A & B	
Course Code	MEAED801	
Course Name	BIM TOOLS	

Sl.	USN / Candidate ID	Name
1	VML19ME001	ABHIJITH K P
2	VML19ME003	ABHIN BABU V B
3	VML19ME002	Abhinav KT
4	VML19ME004	Abhiram Suresh
5	Vml19me007	Adarsh PR
6	VML19ME008	Ajith James
7	vml19me009	ajith johny
8	VML19ME009	AJITH JOHNY
9	VML19ME010	Ajnas A K
10	VML19ME011	Ajo Antony Mathew
11	VML19ME012	Ajulsasi MK
12	VML19ME013	Akash P
13	VML19ME014	AKASH PP
14	VML19ME015	Alan Kuriakose
15	VML19ME016	ALAN MATHEW
16	VML19ME017	Alan Vyshnav P
17	VML19ME017	Alan Vyshnav P
18	VML19ME018	Albin Abraham
19	Vml19me020	Alok babu
20	Vml19me021	Amal joshi
21	VML19ME022	Anand K M
22	VML19ME024	Anex Mathew
23	VML19ME025	Anju
24	VML19ME026	ANUGRAH JEEVAN
25	LVML19ME068	Asrith P
26	VML19ME028	Aswin M
27	VML19ME029	Benedict J Sebastian
28	VML19ME031	Chinmay Nambiar C K
29	VML19ME032	Dheeraj R
30	VML19ME032	Dheeraj R
31	VML19ME033	DYUTHIN E
32	VML19ME034	Fazal UI Haque V P
33	VML19ME035	GOKUL P V
34	VML19ME036	Jezneel Jiju Abraham
35	VML19ME037	Joel Mathew
36	VML19ME039	Jyothis Prakash K
37	VML19ME040	LIBIN SHAJI
38	VML19ME041	Milan s chalil
39	VML19ME042	Muhammed Aflah M
40	Vml19me043	Naviya ganesh babu
41	VML19ME045	NIVED P
42	VML19ME048	P R Sarath
43	VML19ME046	Pranav K V
44	VML19ME047	Pranav pv
45	VML19ME049	Rhishabh Mohan
46	VML19ME050	Rithin Manu P V
47	VML19ME051	Sanjal Alex Chacko
48	VML19ME052	SAYANTH SASINDRAN
49	VML19ME053	SOORAJ C A
50	VML19ME054	Sourabh Sugathan
51	VML19ME055	Sourav Sajeewan
52	VML19ME056	Sreeraj p
53	VML19ME057	Stalin Santo
54	VML19ME058	Ulsav Ullas
55	VML19ME058	ULSAV ULLAS
56	Vml19me059	Vijay Krishna A K
57	VML19ME060	Vinayak Ramachandran
58	VML19ME061	Vinshith V V
59	VML19ME063	VISHNU M
60	VML19ME064	VISHNU PRAKASH
61	VML19ME062	VISHNU.K
62	VML19ME065	VYSHAKH M
63	VML19ME066	Yadhu Krishnan K.V

*[Handwritten Signature]*  
 COURSE CO-ORDINATOR  
 06/02/23

*[Handwritten Signature]*  
 HEAD OF THE DEPARTMENT  
 06/02/23

List of participants



Workshop on BIM Tools- Revit MEP, Inventor (2019-23 Batch M.E) (Day 1) (31/01/2023)

Your Full name on the certificate:	VML Number for activity points:	Contact number:	Batch	30/01/2023 1st hour	30/01/2023 2nd hour	30/01/2023 3rd hour	30/01/2023 4th hour	30/01/2023 5th hour	30/01/2023 6th hour	Signature
Sourav Sajeevan	VML19ME055	7994882562	ME-A	A	A	A	A	A	A	Absent
Asrith P	LVML19ME068	7510317619	ME-A	P	P	P	P	P	P	<i>Asrith</i>
ANAND K M	VML19ME022	8078055085	ME-A	P	P	P	P	P	P	<i>Anand</i>
ANUGRAH JEEVAN	VML19ME026	7909213621	ME-A	P	P	P	P	P	P	<i>Anugrah</i>
ULSAV ULLAS	VML19ME058	9400149469	ME-A	P	P	P	P	P	P	<i>Ulsav</i>
Chinmay Nambiar C	VML19ME031	8289988118	ME-A	P	P	P	P	P	P	<i>Chinmay</i>
ABHIJITH K P	VML19ME001	9995835322	ME-A	P	P	P	P	P	P	<i>Abhijith</i>
VINSHITH V.V	VML19ME061	9074588223	ME-A	P	P	P	P	P	P	<i>Vinshith</i>
ABHINAV KT	VML19ME002	8590689298	ME-A	P	P	P	P	P	P	<i>Abhinav</i>
SOORAJ C A	VML19ME053	7025545206	ME-A	A	A	A	P	P	P	<i>Sooraj</i>
GOKUL P V	VML19ME035	9495385520	ME-A	P	P	P	P	P	P	<i>Gokul</i>
VYSHAKH M	VML19ME065	7025610035	ME-A	P	P	P	P	P	P	<i>Vyshakh</i>
VISHNU M	VML19ME063	8289827061	ME-A	P	P	P	P	P	P	<i>Vishnu</i>
Rhishabh Mohan	VML19ME049	8089837040	ME-A	A	A	A	A	A	A	Absent
AJITH JOHNY	VML19ME009	9188670334	ME-A	P	P	P	P	P	P	<i>Ajith</i>
Alan Kuriakose	VML19ME015	8078838364	ME-A	A	A	A	A	A	A	Absent
Joel Mathew	VML19ME037	9496283576	ME-A	P	P	P	P	P	P	<i>Joel</i>
Jyothis Prakash K	VML19ME039	9544926174	ME-A	P	P	P	P	P	P	<i>Jyothis</i>
LIBIN SHAJI	VML19ME040	9447383105	ME-A	P	P	P	P	P	P	<i>Libin</i>
AJNAS A K	VML19ME010	9562632808	ME-A	P	P	P	P	P	P	<i>Ajnas</i>
Albin Abraham	VML19ME018	8111845982	ME-A	A	A	A	P	P	P	<i>Albin</i> 1/2 Present
Pranav pv	VML19ME047	7902952781	ME-A	P	P	P	P	P	P	<i>Pranav</i>
DYUTHIN E	VML19ME033	6282969005	ME-A	P	P	P	A	A	A	<i>Dyuthin</i> 1/2 Present
Sanjal Alex Chacko	VML19ME051	8281368561	ME-A	A	A	A	P	P	P	<i>Sanjal</i>
NIVED P	VML19ME045	9605985446	ME-A	A	A	A	A	A	A	Absent
Ajulsasi MK	VML19ME012	7559089836	ME-A	A	A	A	P	P	P	<i>Ajulsasi</i> 1/2 Present
ALOK BABU	Vml19me020	8078500723	ME-A	P	P	P	A	A	A	<i>Alok</i> 1/2 Present
Aswin M	VML19ME028	8289873252	ME-A	P	P	P	A	A	A	<i>Aswin</i> 1/2 Present
Ben Johns Philip	VML19ME030	8075872484	ME-A	A	A	A	A	A	A	Absent
Stalin Santo	VML19ME057	9526293806	ME-A	A	A	A	A	A	A	Absent

*Shamir*







Workshop on BIM Tools- Revit MEP, Inventor (2019-23 Batch M.E) (Day 2) (31-01-2023)

Your Full name on the certificate:	VML Number for activity points:	Contact number:	Batch	31/01/2023 1st hour	31/01/2023 2nd hour	31/01/2023 3rd hour	31/01/2023 4th hour	31/01/2023 5th hour	31/01/2023 6th hour	Signature
ABHIJITH K P	VML19ME001	9995835322	ME-A	P	P	P	P	P	P	<i>Abhi</i>
ABHINAV KT	VML19ME002	8590689298	ME-A	P	P	P	P	P	P	<i>Abhinav</i>
AJITH JOHNY	VML19ME009	9188670334	ME-A	P	P	P	P	P	P	<i>Ajith</i>
AJNAS A K	VML19ME010	9562632808	ME-A	P	A	P	P	P	P	<i>Ajnas</i>
Ajulsasi MK	VML19ME012	7559089836	ME-A	P	P	P	P	P	P	<i>Ajulsasi</i>
Akash PP	VML19ME014	8590193906	ME-A	P	P	A	A	A	A	<i>Akash</i>
Alan Kuriakose	VML19ME015	8078838364	ME-A	P	P	P	P	P	P	<i>Alan</i>
Albin Abraham	VML19ME018	8111845982	ME-A	P	P	P	P	P	P	<i>Albin</i>
ALOK BABU	Vml19me020	8078500723	ME-A	P	P	A	A	A	A	<i>Alok</i>
ANAND K M	VML19ME022	8078055085	ME-A	P	P	P	P	P	P	<i>Anand</i>
Anex Mathew	VML19ME024	6238993969	ME-A	P	P	P	P	P	P	<i>Anex</i>
ANUGRAH JEEVAN	VML19ME026	7909213621	ME-A	P	P	P	P	P	P	<i>Anugrah</i>
Asrith P	LVML19ME068	7510317619	ME-A	P	P	P	P	P	P	<i>Asrith</i>
Aswin M.	VML19ME028	8289873252	ME-A	P	P	P	P	P	P	<i>Aswin</i>
Ben Johns Philip	VML19ME030	8075872484	ME-A	A	A	A	A	A	A	<i>Ben</i>
Chinmay Nambiar C K	VML19ME031	8289988118	ME-A	P	P	P	P	P	P	<i>Chinmay</i>
DYUTHIN E	VML19ME033	6282969005	ME-A	P	P	P	P	P	P	<i>Dyuthin</i>
GOKUL P V	VML19ME035	9495385520	ME-A	P	P	P	P	P	P	<i>Gokul</i>
Joel Mathew	VML19ME037	9496283576	ME-A	P	A	P	P	P	P	<i>Joel</i>
Jyothis Prakash K	VML19ME039	9544926174	ME-A	P	P	P	P	P	P	<i>Jyothis</i>
LIBIN SHAJI	VML19ME040	9447383105	ME-A	P	P	P	P	P	P	<i>Libin</i>
NIVED P	VML19ME045	9605985446	ME-A	P	P	A	A	A	A	<i>Nived</i>
Pranav pv	VML19ME047	7902952781	ME-A	P	P	P	P	P	P	<i>Pranav</i>
Rhishabh Mohan	VML19ME049	8089837040	ME-A	A	A	A	A	A	A	<i>Rhishabh</i>
Sanjal Alex Chacko	VML19ME051	8281368561	ME-A	P	P	P	P	P	P	<i>Sanjal</i>
SOORAJ C A	VML19ME053	7025545206	ME-A	P	P	P	P	P	P	<i>Sooraj</i>
Sourav Sajeevan	VML19ME055	7994882562	ME-A	P	A	P	P	P	P	<i>Sourav</i>
Stalin Santo	VML19ME057	9526293806	ME-A	A	P	P	P	P	P	<i>Stalin</i>
ULSAV ULLAS	VML19ME058	9400149469	ME-A	P	P	P	P	P	P	<i>Ulsav</i>
Vijay Krishna AK	VML19ME059	8606613101	ME-A	A	A	A	A	A	A	<i>Vijay</i>
VINSHITH V.V	VML19ME061	9074588223	ME-A	P	P	P	P	P	P	<i>Vinshith</i>
VISHNU M	VML19ME063	8289827061	ME-A	P	P	P	P	P	P	<i>Vishnu</i>
VYSHAKH M	VML19ME065	7025610035	ME-A	P	P	P	P	P	P	<i>Vyshakh</i>

*Shanmugan*



Abhin Babu V B	VML19ME003	9562499726	ME-B	P	P	P	P	P	P	Abhin
Abhiram Suresh	VML19ME004	9539308740	ME-B	P	P	P	P	P	P	Abhiram
Adarsh PR	Vml19me007	62388 04771	ME-B	A	A	A	A	A	A	Absent
Ajith James	VML19ME008	9847181515	ME-B	P	P	P	P	P	P	Ajith
Ajo Antony Mathew	VML19ME011	8606207562	ME-B	P	A	P	P	P	P	Ajo
Akash P	VML19ME013	81568 09472	ME-B	P	P	P	P	P	P	Akash
ALAN MATHEW	VML19ME016	8281172362	ME-B	P	P	P	P	P	P	Alan
Alan Vyshnav P	Vml19me017	999587r420	ME-B	P	P	P	P	P	P	Alan
ALEN MOBY	VML19ME019	8086915056	ME-B	P	P	P	P	P	P	Alen
Amal Joshy	VML19ME021	7558813871	ME-B	A	A	A	A	A	A	Absent
Andrin Sunny	VML19ME023	9072789957	ME-B	A	A	A	A	A	A	Absent
Anju M	VML19ME025	8086458150	ME-B	P	P	P	P	P	P	Anju
Arun C	VML19ME027	8848690214	ME-B	A	A	A	A	A	A	Absent
Benedict J Sebastian	VML19ME029	8281488133	ME-B	P	P	P	P	P	P	Benedict
Dheeraj R	VML19ME032	8547333610	ME-B	P	P	P	P	P	P	Dheeraj
Fazal UI Haque V P	VML19ME034	9526420948	ME-B	A	P	P	P	P	P	Fazal
Jezneel Jiju Abraham	VML19ME036	8078292150	ME-B	P	P	P	P	P	P	Jezneel
Jomy Augustine	VML19ME038	8078177812	ME-B	P	P	P	P	P	P	Jomy
Milan s chaliil	VML19ME041	9526294863	ME-B	P	P	P	P	P	P	Milan
MUHAMMED AFLAH M	VML19ME042	9207828037	ME-B	P	P	P	P	P	P	Muhammed
Naviya ganesh babu vml	Vml19me043	9188479331	ME-B	P	P	P	P	P	P	Naviya
P R Sarath	VML19ME048	7034715007	ME-B	P	P	P	P	P	P	Prasanth
Pranav K V	VML19ME046	7025351847	ME-B	A	A	A	A	A	A	Absent
RITHIN MANU P V	VML19ME050	9074023379	ME-B	P	P	P	P	P	P	Rithin
Sayanth Sasindran	VML19ME052	8848975667	ME-B	P	P	P	P	P	P	Sayanth
Sourabh Sugathan	VML19ME054	9207488150	ME-B	P	P	P	P	P	P	Sourabh
Sreeraj p	VML19ME056	8547723700	ME-B	P	P	P	P	P	P	Sreeraj
VINAYAK RAMACHANDRA	VML19ME060	9061249802	ME-B	P	P	P	P	P	P	Vinayak
VISHNU PRAKASH	VML19ME064	9497341239	ME-B	P	P	P	P	P	P	Vishnu
VISHNU.K	VML19ME062	9495048760	ME-B	P	P	P	P	P	P	Vishnu
Yadhu Krishnan K.V	VML19ME066	7592816399	ME-B	P	P	P	P	P	P	Yadhu

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Workshop on BIM Tools- Revit MEP, Inventor (2019-23 Batch M.E) (Day 3) (01/02/2023)

Your Full name on the certificate:	VML Number for activity points:	Contact number:	Batch	01/02/2023 1st hour	01/02/2023 2nd hour	01/02/2023 3rd hour	01/02/2023 4th hour	01/02/2023 5th hour	01/02/2023 6th hour	Signature
ABHIJITH K P	VML19ME001	9995835322	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
ABHINAV KT	VML19ME002	8590689298	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
AJITH JOHNY	VML19ME009	9188670334	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
AJNAS A K	VML19ME010	9562632808	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
Ajulsasi MK	VML19ME012	7559089836	ME-A	P	P	P	A	A	A	<i>[Signature]</i>
Akash PP	VML19ME014	8590193906	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
Alan Kuriakose	VML19ME015	8078838364	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
Albin Abraham	VML19ME018	8111845982	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
ALOK BABU	Vml19me020	8078500723	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
ANAND K M	VML19ME022	8078055085	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
Anex Mathew	VML19ME024	6238993969	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
ANUGRAH JEEVAN	VML19ME026	7908713621	ME A	P	P	P	P	P	P	<i>[Signature]</i>
Asrith P	LVML19ME068	7510317619	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
Aswin M	VML19ME028	8289873252	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
Ben Johns Phillip	VML19ME030	8075872484	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
Chinmay Nambiar C K	VML19ME031	8289988118	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
DYUTHIN E	VML19ME033	6282969005	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
GOKUL P V	VML19ME035	9495385520	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
Joel Mathew	VML19ME037	9496283576	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
Jyothis Prakash K	VML19ME039	9544926174	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
LIBIN SHAJI	VML19ME040	9447383105	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
NIVED P	VML19ME045	9605585446	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
Pranav pv	VML19ME047	7902952781	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
Rhishabh Mohan	VML19ME049	8089837040	ME-A	A	A	A	A	A	A	<i>[Signature]</i>
Sanjal Alex Chacko	VML19ME051	8281368561	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
SOORAJ C A	VML19ME053	7025545206	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
Sourav Sajeevan	VML19ME055	7994882562	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
Stalin Santo	VML19ME057	9526293806	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
ULSAV ULLAS	VML19ME058	9400149469	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
Vijay Krishna AK	VML19ME059	8606613101	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
VINSHITH V.V	VML19ME061	9074588223	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
VISHNU M	VML19ME063	8289827061	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
VYSHAKH M	VML19ME065	7025610035	ME-A	P	P	P	P	P	P	<i>[Signature]</i>

*[Handwritten Signature]*







Workshop on BIM Tools- Revit MEP, Inventor (2019-23 Batch M.E) (Day 4) (02/02/2023)

Your Full name on the certificate:	VML Number for activity points:	Contact number:	Batch	02/02/2023 1st hour	02/02/2023 2nd hour	02/02/2023 3rd hour	02/02/2023 4th hour	02/02/2023 5th hour	02/02/2023 6th hour	Signature
ABHIJITH K P	VML19ME001	9995835322	ME-A	P	P	P	P	P	P	
ABHINAV KT	VML19ME002	8590689298	ME-A	P	P	P	P	P	P	
AJITH JOHNY	VML19ME009	9188670334	ME-A	P	P	P	P	P	P	
AJNAS A K	VML19ME010	9562632808	ME-A	P	P	A	P	P	P	
Ajulsasi MK	VML19ME012	7559089836	ME-A	P	P	P	P	P	P	
Akash PP	VML19ME014	8590193906	ME-A	P	P	P	P	P	P	
Alan Kuriakose	VML19ME015	8078838364	ME-A	P	P	P	P	P	P	
Albin Abraham	VML19ME018	8111845982	ME-A	P	P	A	P	P	P	
ALOK BABU	Vml19me020	8078500723	ME-A	P	P	A	P	P	P	
ANAND K M	VML19ME022	8078055085	ME-A	P	P	P	P	P	P	
Anex Mathew	VML19ME024	6238993969	ME-A	P	P	P	P	P	P	
ANUGRAH JEEVAN	VML19ME026	7909213621	ME-A	P	P	P	P	P	P	
Asrith P	LVML19ME068	7510317619	ME-A	P	P	P	P	P	P	
Aswin M	VML19ME028	8289873252	ME-A	P	P	A	P	P	P	
Ben Johns Philip	VML19ME030	8075872484	ME-A	P	P	A	P	P	P	
Chinmay Nambiar C K	VML19ME031	8289988118	ME-A	P	P	P	P	P	P	
DYUTHIN E	VML19ME033	6282969005	ME-A	P	P	P	P	P	P	
GOKUL P V	VML19ME035	9495385520	ME-A	P	P	P	P	P	P	
Joel Mathew	VML19ME037	9496283576	ME-A	P	P	P	P	P	P	
Jyothis Prakash K	VML19ME039	9544926174	ME-A	P	P	P	P	P	P	
LIBIN SHAJI	VML19ME040	9447383105	ME-A	P	P	P	P	P	P	
NIVED P	VML19ME045	9605985446	ME-A	P	P	P	P	P	P	
Pranav pv	VML19ME047	<del>7802852781</del>	<del>ME-A</del>	<del>P</del>	<del>P</del>	<del>P</del>	<del>P</del>	<del>P</del>	<del>P</del>	
Rhishabh Mohan	VML19ME049	8089837040	ME-A	P	P	P	P	P	P	
Sanjal Alex Chacko	VML19ME051	8281368561	ME-A	P	P	P	P	P	P	
SOORAJ C A	VML19ME053	7025545206	ME-A	P	P	P	P	P	P	
Sourav Sajeevan	VML19ME055	7994882562	ME-A	P	P	P	P	P	P	
Stalin Santo	VML19ME057	9526293806	ME-A	P	P	A	P	P	P	
ULSAV ULLAS	VML19ME058	9400149469	ME-A	P	P	P	P	P	P	
Vijay Krishna AK	VML19ME059	8606613101	ME-A	P	P	A	P	P	P	
VINSHITH V.V	VML19ME061	9074588223	ME-A	P	P	P	P	P	P	
VISHNU M	VML19ME063	8289827061	ME-A	P	P	P	P	P	P	

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Abhin Babu V B	VML19ME003	9562499726	ME-B	P	P	P	P	P	P	P	Present
Abhiram Suresh	VML19ME004	9539308740	ME-B	A	A	A	A	A	A	A	Absent
Adarsh PR	Vml19me007	62388 04771	ME-B	P	P	P	P	P	P	P	Present
Ajith James	VML19ME008	9847181515	ME-B	P	P	P	P	P	P	P	Present
Ajo Antony Mathew	VML19ME011	8606207562	ME-B	P	P	A	P	P	P	P	Present
Akash P	VML19ME013	81568 09472	ME-B	P	P	P	P	P	P	P	Present
ALAN MATHEW	VML19ME016	8281172362	ME-B	P	P	P	P	P	P	P	Present
Alan Vyshnav P	Vml19meo17	999587r420	ME-B	P	P	P	P	P	P	P	Present
ALEN MOBY	VML19ME019	8086915056	ME-B	P	P	P	P	P	P	P	Present
Amal Joshy	VML19ME021	7558813871	ME-B	P	P	P	A	A	A	A	1/2 Present
Andrin Sunny	VML19ME023	9072788957	ME-B	A	A	A	A	A	A	A	Absent
Anju M	VML19ME025	8086458150	ME-B	A	A	A	A	A	A	A	Absent
Arun C	VML19ME027	8848690214	ME-B	P	P	A	A	A	A	A	1/2 Present
Benedict J Sebastian	VML19ME029	8281488133	ME-B	P	P	P	P	P	P	P	Present
Dheeraj R	VML19ME032	8547333610	ME-B	P	P	P	P	P	P	P	Present
Fazal UI Haque V P	VML19ME034	9526420948	ME-B	P	P	P	P	P	P	P	Present
Jezneel Jiju Abraham	VML19ME036	8078292150	ME-B	P	P	P	P	P	P	P	Present
Jomy Augustine	VML19ME038	8078177812	ME-B	P	P	P	P	P	P	P	Present
Milan s chalii	VML19ME041	9526294863	ME-B	P	P	A	P	P	P	P	Present
MUHAMMED AFLAH M	VML19ME042	9207828037	ME-B	P	P	P	P	P	P	P	Present
Naviya ganesh babu vml	Vml19me043	9188479331	ME-B	P	P	P	P	P	P	P	Present
P R Sarath	VML19ME048	7034715007	ME-B	P	P	P	P	P	P	P	Present
Pranav K V	VML19ME046	7025351847	ME-B	P	P	P	P	P	P	P	Present
RITHIN MANU P V	VML19ME050	9074023379	ME-B	P	P	P	P	P	P	P	Present
Sayanth Sasindran	VML19ME052	8848975667	ME-B	P	P	P	A	A	A	A	1/2 Present
Sourabh Sugathan	VML19ME054	9207488150	ME-B	P	P	P	P	P	P	P	Present
Sreeraj p	VML19ME056	8547723700	ME-B	P	P	P	P	P	P	P	Present
VINAYAK RAMACHANDRAN	VML19ME060	9061249802	ME-B	P	P	P	P	P	P	P	Present
VISHNU PRAKASH	VML19ME064	9497341239	ME-B	P	P	P	A	A	A	A	1/2 Present
VISHNU.K	VML19ME062	9495048760	ME-B	P	P	P	P	P	P	P	Present
Yadhu Krishnan K.V	VML19ME066	7592816399	ME-B	A	A	A	A	A	A	A	Absent

	P	P	P	P	P	P	ME-A	7025610035	VML19ME065	VYSHAKH M
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Workshop on BIM Tools- Revit MEP, Inventor (2019-23 Batch M.E) (Day 5) (03/02/2023)

Your Full name on the certificate:	VML Number for activity points:	Contact number:	Batch	03/02/2023 1st hour	03/02/2023 2nd hour	03/02/2023 3rd hour	03/02/2023 4th hour	03/02/2023 5th hour	03/02/2023 6th hour	Signature
ABHIJITH K P	VML19ME001	9995835322	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
ABHINAV KT	VML19ME002	8590689298	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
AJITH JOHNY	VML19ME009	9188670334	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
AJNAS A K	VML19ME010	9562632808	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
Ajulsasi MK	VML19ME012	7559089836	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
Akash PP	VML19ME014	8590193906	ME-A	A	A	A	A	A	A	<i>[Signature]</i>
Alan Kuriakose	VML19ME015	8078838364	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
Albin Abraham	VML19ME018	8111845982	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
ALOK BABU	Vml19me020	8078500723	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
ANAND K M	VML19ME022	8078055085	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
Anex Mathew	VML19ME024	6238993969	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
ANUGRAH JEEVAN	VML19ME026	7909213621	ME-A	A	A	A	A	A	A	<i>[Signature]</i>
Asrith P	LVML19ME068	7510317619	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
Aswin M	VML19ME028	8289873252	ME-A	A	A	A	A	A	A	<i>[Signature]</i>
Ben Johns Philip	VML19ME030	8075872484	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
Chinmay Nambiar C K	VML19ME031	8289988118	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
DYUTHIN E	VML19ME033	6282969005	ME-A	A	A	A	A	A	A	<i>[Signature]</i>
GOKUL P V	VML19ME035	9495385520	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
Joel Mathew	VML19ME037	9496283576	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
Jyothis Prakash K	VML19ME039	9544926174	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
LIBIN SHAJI	VML19ME040	9447383105	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
NIVED P	VML19ME045	9605985446	ME-A	A	A	A	A	A	A	<i>[Signature]</i>
Pranav pv	VML19ME047	7902952781	ME-A	A	A	A	A	A	A	<i>[Signature]</i>
Rhishabh Mohan	VML19ME049	8089837040	ME-A	A	A	A	A	A	A	<i>[Signature]</i>
Sanjal Alex Chacko	VML19ME051	8281368561	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
SOORAJ C A	VML19ME053	7025545206	ME-A	A	A	A	A	A	A	<i>[Signature]</i>
Sourav Sajeewan	VML19ME055	7994882562	ME-A	A	A	A	A	A	A	<i>[Signature]</i>
Stalin Santo	VML19ME057	9526293806	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
ULSAV ULLAS	VML19ME058	9400149469	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
Vijay Krishna AK	VML19ME059	8606613101	ME-A	A	A	A	A	A	A	<i>[Signature]</i>
VINSHITH V.V	VML19ME061	9074588223	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
VISHNU M	VML19ME063	8289827061	ME-A	P	P	P	P	P	P	<i>[Signature]</i>
VYSHAKH M	VML19ME065	7025610035	ME-A	P	P	P	P	P	P	<i>[Signature]</i>

*[Handwritten Signature]*

Student feedback report

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34	VML19ME036	Jezneel Jiju Abraham	10	11	13	12	8	7	6	7	74
35	VML19ME037	Joel Mathew	11	14	15	13	7	6	7	10	83
36	VML19ME039	Jyothis Prakash K	12	13	13	10	6	7	10	9	80
37	VML19ME040	LIBIN SHAJI	14	13	15	14	10	6	7	9	88
38	VML19ME041	Milana s chalil	10	11	12	11	10	8	6	7	75
39	VML19ME042	Muhammed Afiah M	13	10	13	13	6	10	9	7	81
40	Vml19me043	Naviya ganesh babu	10	12	13	12	10	7	7	8	79
41	VML19ME045	NIVED P	11	13	11	10	7	7	7	10	76
42	VML19ME048	P R Sarath	12	13	14	12	6	8	8	10	83
43	VML19ME046	Pranav K V	10	15	15	13	8	6	7	8	82
44	VML19ME047	Pranav pv	11	13	12	14	9	6	9	8	82
45	VML19ME049	Rhishabh Mohan	11	10	14	12	9	7	10	10	83
46	VML19ME050	Rithin Manu P V	11	13	11	11	7	8	6	7	74
47	VML19ME051	Sanjal Alex Chacko	10	12	14	12	9	6	10	8	81
48	VML19ME052	SAYANTH									
49	VML19ME053	SASINDRAN	12	15	13	15	7	8	10	6	86
50	VML19ME054	SOORAJ C A	13	14	14	13	6	6	6	7	79
51	VML19ME055	Sourabh Sugathan	10	14	10	11	9	7	9	6	76
52	VML19ME056	Sourav Sajeevan	11	11	15	14	9	8	9	7	84
53	VML19ME057	Sreeraj p	12	11	10	11	8	10	10	6	78
54	VML19ME058	Stalin Santo	13	13	11	14	8	6	8	7	80
55	VML19ME058	Uisav Ullas	13	15	10	12	10	6	7	8	81
56	Vml19me059	ULSAV ULLAS	10	14	14	12	8	9	9	6	82
57	VML19ME060	Vijay Krishna A K	15	11	11	10	9	7	7	9	79
58	VML19ME061	Vinayak									
59	VML19ME063	Ramachandran	11	14	12	10	7	8	10	8	80
60	VML19ME064	Vinshith V V	13	14	10	11	7	6	10	6	77
61	VML19ME062	VISHNU M	15	13	15	15	7	10	10	7	92
62	VML19ME065	VISHNU PRAKASH	14	10	12	14	9	6	9	8	82
63	VML19ME066	VISHNU.K	10	12	14	11	7	7	8	8	77
		VYSHAKH M	15	11	15	12	7	10	6	10	86
		Yadhu Krishnan K.V	14	12	12	11	7	10	7	9	82

*[Signature]*  
COURSE CO-ORDINATOR

*[Signature]*  
HEAD OF THE DEPARTMENT



USN : \_\_\_\_\_



Vimal Jyothi Engineering College  
DEPARTMENT OF MECHANICAL ENGINEERING  
MEAD801: BIM Tools add-on course

Semester: 8-Scheme 2019  
Subject: BIM Tools add-on course (MEAD801)  
Faculty: Mr Shaminmuth K K

Date: 30 Jan 2023  
Time: 02:00 PM - 04:00 PM  
Max Marks: 100

**Instructions to Students:**

Answer all part A questions.

Part - A  
Answer all questions

Marks CO BT/CL

1. Explain the process of creating a building space in Autodesk Revit, including how to perform heating and cooling load analysis.

PI - 6.2.1

[15.0] [CO1] [3]

2. Describe the steps involved in designing an HVAC system in Autodesk Revit that meets industry standards and satisfies the building's requirements.

PI - 6.2.1

[15.0] [CO1] [3]

3. Explain how to use HVAC modeling tools in Autodesk Revit to design ducts, duct fittings, air terminals, and air supply systems that are efficient, effective, and meet industry standards.

PI - 6.2.1

[15.0] [CO2] [3]

*Shamin*



4. Describe the process of creating and editing plumbing and electrical systems in a building using Autodesk Revit. How do you inspect these systems for errors and ensure that they meet industry standards?

PI - 8.1.1

[15.0] [2] [3]

5. Explain the concept of mechanical three-dimensional modeling using parametric modeling tools in Autodesk Inventor. How do you create complex mechanical models that are efficient, accurate, and meet industry standards?

PI - 8.1.1

[10.0] [CO3] [3]

6. Describe the process of developing proficiency in mechanical three-dimensional modeling using parametric modeling tools in Autodesk Inventor. What are some strategies for improving your skills in this area?

PI - 9.1.1

[10.0] [CO3] [3]

7. Explain how to use Autodesk Revit and Inventor together to create a complete building design that includes both mechanical and architectural elements. What are some challenges you may encounter when integrating these two software programs?

PI - 6.2.1

[10.0] [CO4] [3]

8. Describe some best practices for using Autodesk Revit and Inventor to design and model mechanical systems that are both efficient and effective. How do you ensure that your designs meet industry standards and are appropriate for the intended use?

PI - 6.2.1

[10.0] [CO4] [3]

*Jhannis*



**DEPARTMENT OF MECHANICAL ENGINEERING**  
**VIMAL JYOTHI ENGINEERING COLLEGE, CHEMPERI**  
**MEAD801: BIM Tools Post-event Impact assessment report**

BIM Tools Post-Event Feedback Form



Questions Responses **63** Settings

63 responses

View in Sheets

Accepting responses

Summary

Question

Individual

Name:

63 responses

Anand K M

Vinayak Ramachandran

P R Sarath

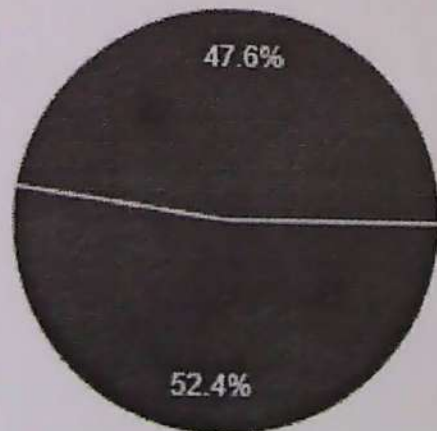
Pranav pv

Amal Joshy

Batch:

63 responses

Copy




- A batch
- B Batch

*Shammi*

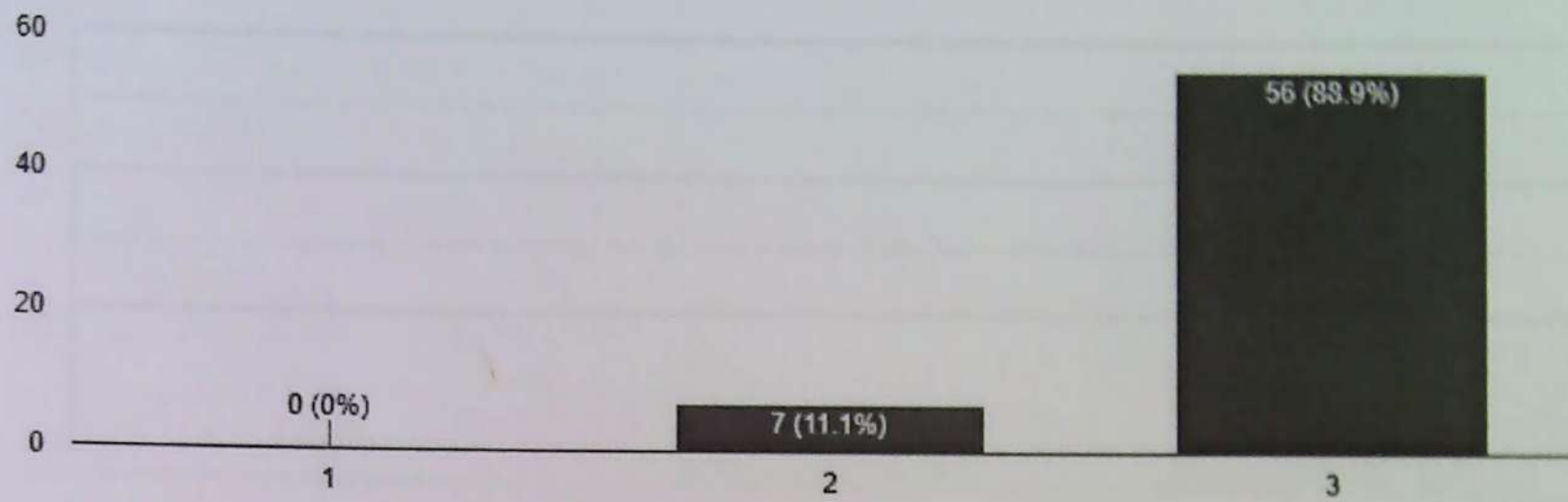


On a scale of 1 to 3 how do you rate the add-on course classes?


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- 1 - Poor
- 2 - Satisfactory
- 3 - Excellent

63 responses

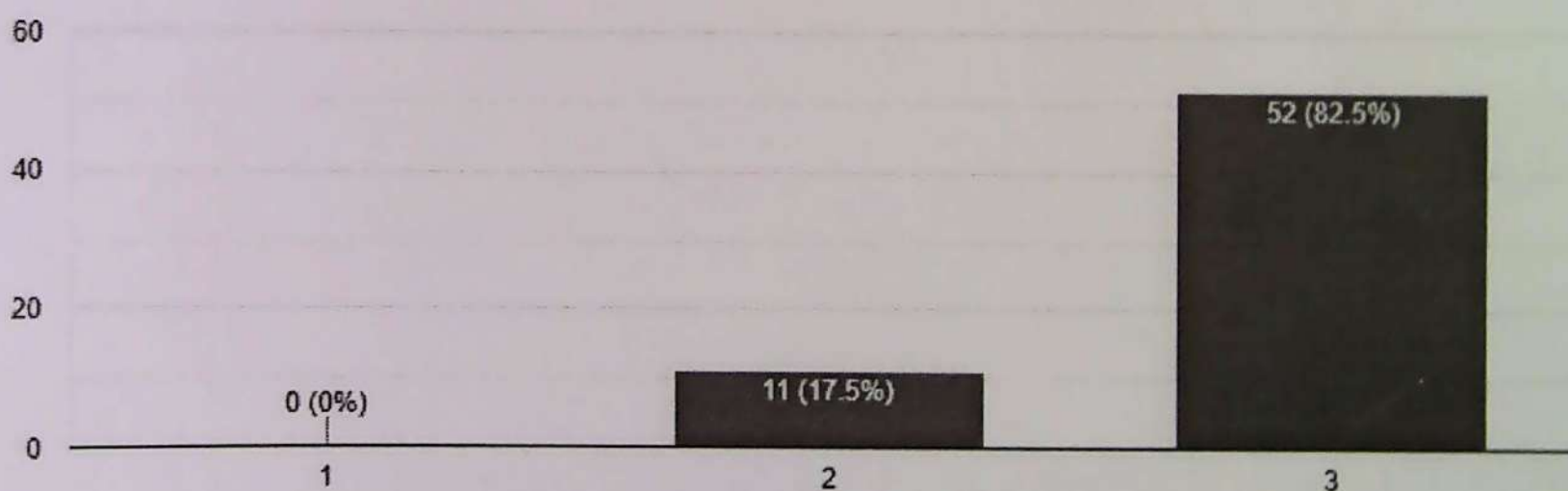


The software's and tools discussed during this event was relevant and met your curriculum gaps. ( P01, P02, P03, P04, P05)

 Copy

- 1 - Poor
- 2 - Satisfactory
- 3 - Excellent


63 responses



*Shawni*

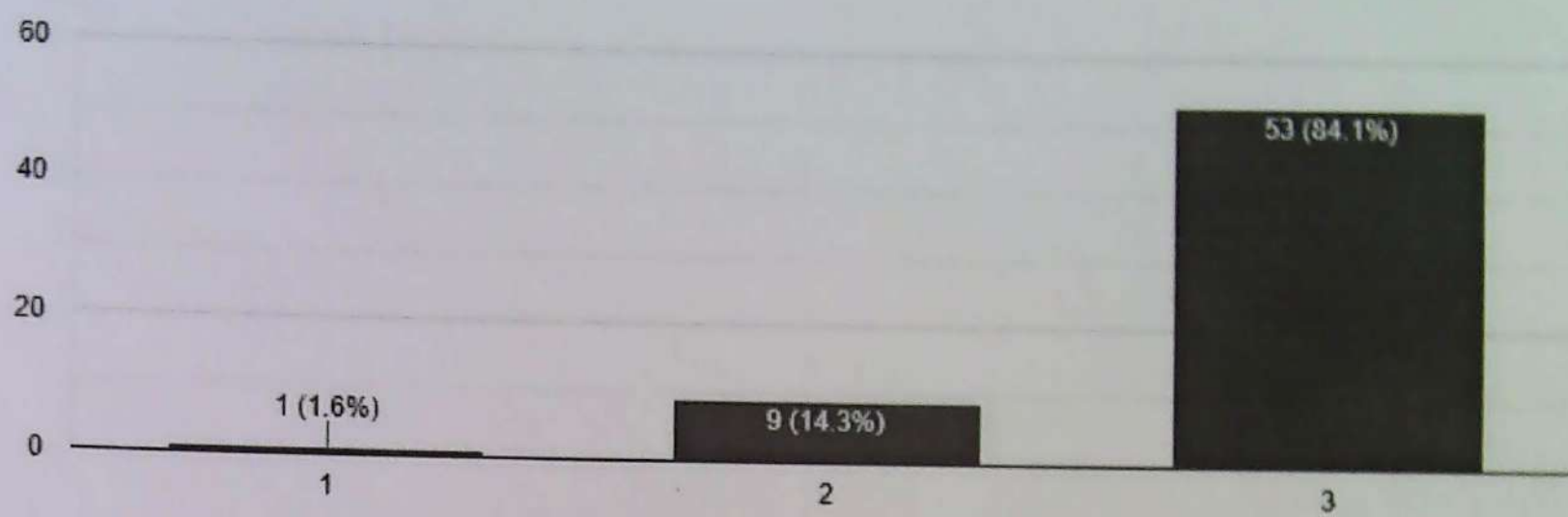


You got sufficient opportunity for exploring your creativity, technical skills and improving your design ideas on MEP (P03, P04, P05, PS01, PS02):


 Copy

- 1 - Poor
- 2 - Satisfactory
- 3 - Excellent

63 responses

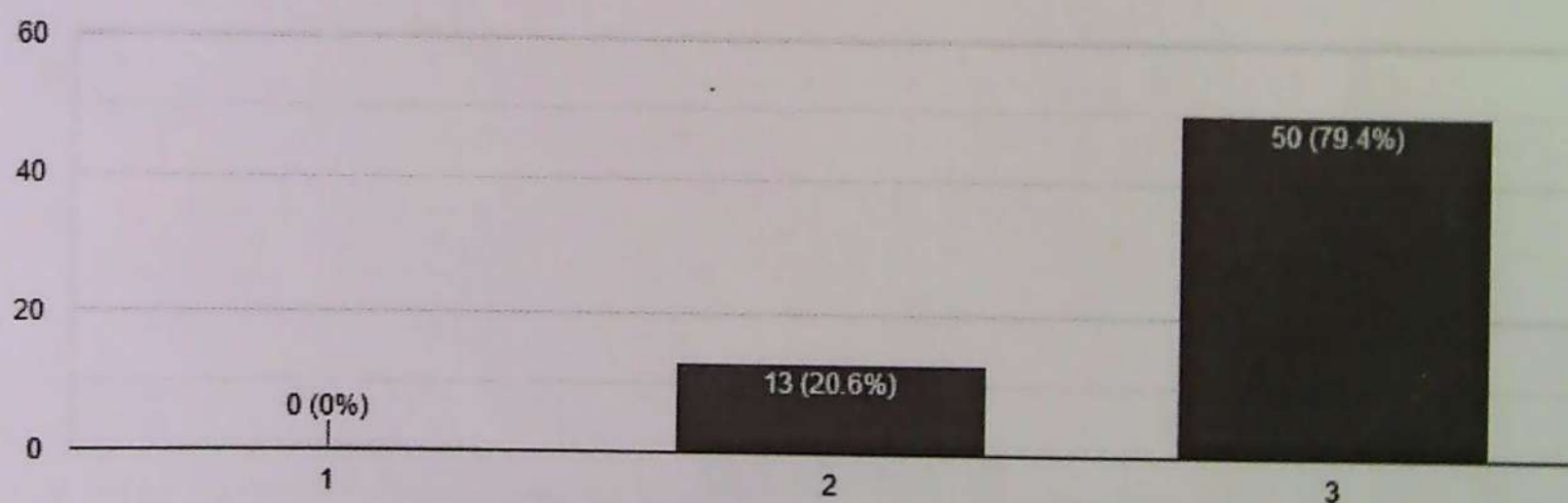


The software tools helped you in designing and developing a demonstrable project, which can be used in mechanical based industrial sectors. ( P05, P012, PS01, PS02):

 Copy

- 1 - Poor
- 2 - Satisfactory
- 3 - Excellent


63 responses



*Shamini*

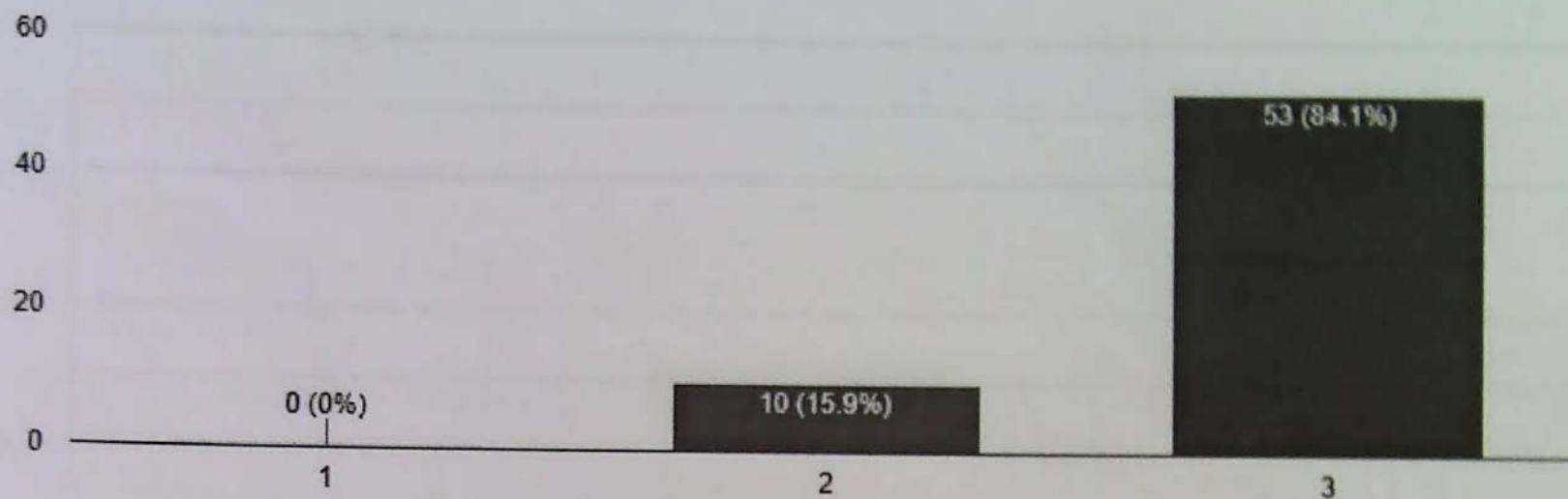


Were you able to perform effectively as an individual and as a team, and follow the instructions? (P09, P011, P012) :


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- 1 - Poor
- 2 - Satisfactory
- 3 - Excellent

63 responses

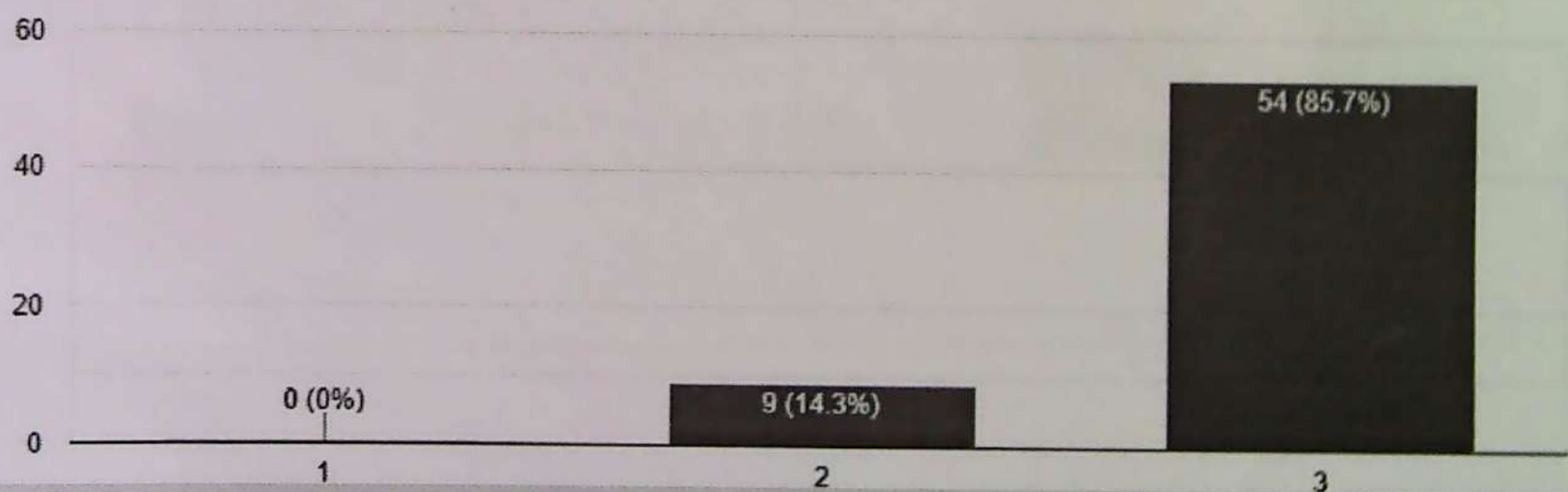


Will the software's included in the add-on course able to contribute to the society, modern engineering and global requirements? (P03, P05, PS01, PS02):

 Copy

- 1 - Poor
- 2 - Satisfactory
- 3 - Excellent


63 responses



*Shammi*

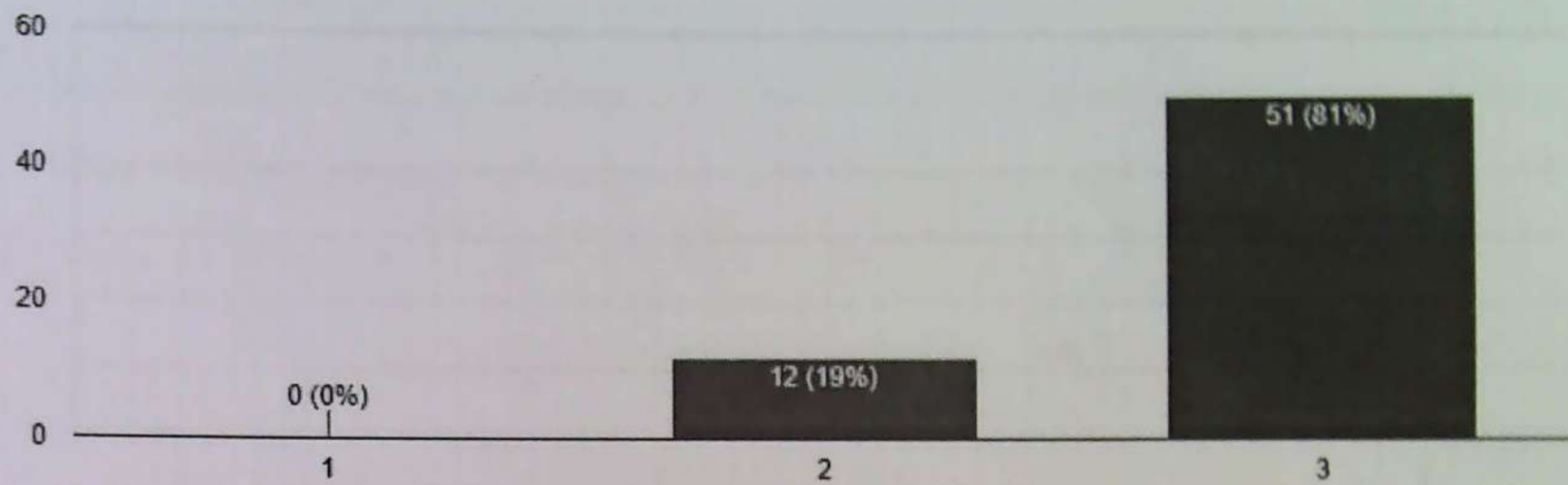


What is your level of learning on Revit & Autodesk inventor after this add-on course?  
(P012):


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- 1 - Poor
- 2 - Satisfactory
- 3 - Excellent

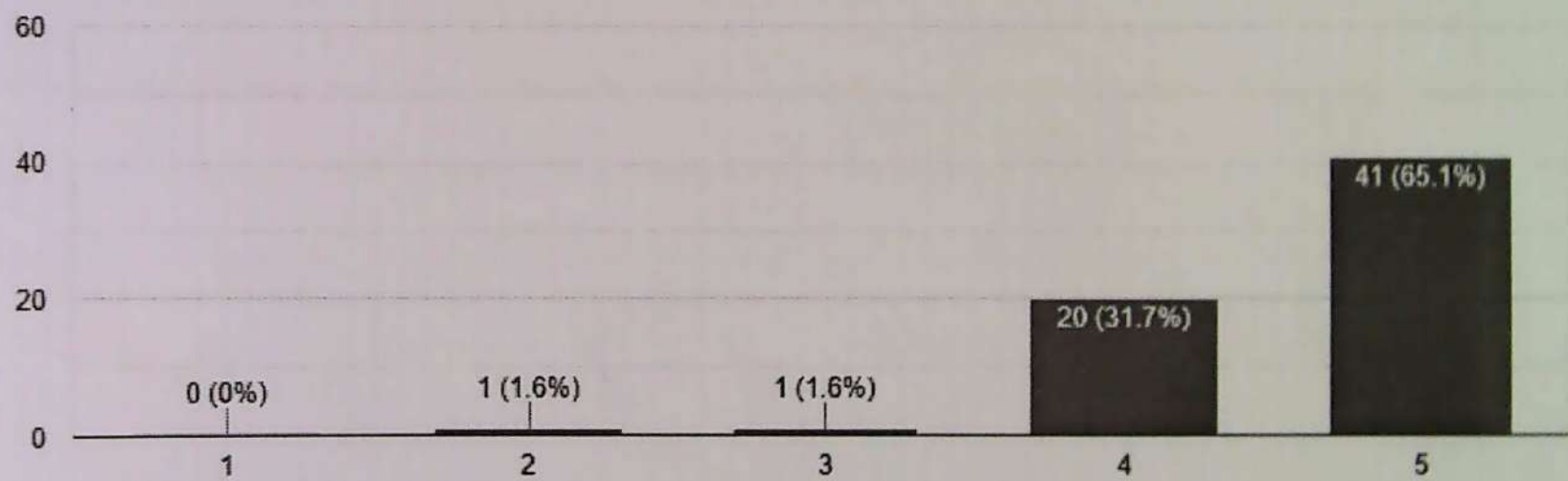
63 responses



On a scale of 5 rate your learning level of BIM tools after this add-on course?

 Copy

63 responses



*Shammi*



Timestamp	Name:	Register Number:	Batch:	On a scale of 1 to 3 how do you rate the add-on course classes? 1 - Poor 2 - Satisfactory 3 - Excellent	The software's and tools discussed during this event was relevant and met your curriculum gaps. (PO1, PO2, PO3, PO4, PO5) 1 - Poor 2 - Satisfactory 3 - Excellent	You got sufficient opportunity for exploring your creativity, technical skills and improving your design ideas on MEP (PO3, PO4, PO5, PS01, PS02); 1 - Poor 2 - Satisfactory 3 - Excellent	The software tools helped you in designing and developing a demonstrable project, which can be used in mechanical based industrial sectors. (PO5, PO12, PS01, PS02); 1 - Poor 2 - Satisfactory 3 - Excellent	Were you able to perform effectively as an individual and as a team, and follow the instructions? (PO8, PO11, PO12); 1 - Poor 2 - Satisfactory 3 - Excellent	Will the software's included in the add-on course able to contribute to the society, modern engineering and global requirements? (PO3, PO5, PS01, PS02); 1 - Poor 2 - Satisfactory 3 - Excellent	What is your level of learning on Revit & Autodesk Inventor after this add-on course? (PO12); 1 - Poor 2 - Satisfactory 3 - Excellent	Your suggestions for improving Add-on courses:	Semester:	On a scale of 5 rate your learning level of BIM tools after this add-on course?	Email address:	Contact number:
2-4-2023 13:48:22	Stalin Santo	VML19ME067	A batch	3	3	3	3	3	3	3	Increase the time	S8	5	stalinanto3000@gmail.co	9526293808
2-4-2023 13:48:23	ABHIJITH K P	VML19ME061	A batch	3	3	3	3	3	3	3		S8	5	abhihitkpkundanchal000@g	9995835322
2-4-2023 13:48:29	ANUGRAH JEEVAN	VML19ME028	A batch	3	3	3	3	3	3	3		S8	5	anupur715@gmail.com	7909213021
2-4-2023 13:51:09	Aarath P	VML19ME068	A batch	3	3	3	3	3	3	3		S8	4	aaritp01@gmail.com	7510317919
2-4-2023 13:51:23	Chinmay Nambiar C	VML19ME031	A batch	3	3	2	3	3	3	2		S8	4	chinmaynambiarck@gmail.c	8289988118
2-4-2023 13:51:28	Alan KuriaKose	VML19ME015	A batch	3	3	3	3	3	3	3	Nil	S8	5	alanuriakose2030@gmail	8076838364
2-4-2023 13:51:32	GOKUL P V	VML19ME035	A batch	3	3	3	3	3	3	3		S8	5	gokulp001@gmail.com	9495365520
2-4-2023 13:52:37	LIBIN SHAJI	VML19ME040	A batch	3	3	3	3	3	3	3		S8	5	libin_shajim@gmail.com	8236353081
2-4-2023 13:52:40	Abhinav KT	VML19ME002	A batch	3	3	3	3	3	3	3		S8	5	abhinavkt0011@gmail.com	8590689298
2-4-2023 13:58:34	Anex Mathew	VML19ME024	A batch	3	3	3	3	3	3	3	It was nice knowing of	S8	5	anexmathew231@gmail.co	8238993969
2-4-2023 14:12:00	Utsav Ullas	VML19ME056	A batch	3	3	3	3	3	3	3		S8	5	ullas1963@gmail.com	9400149469
2-4-2023 14:15:11	Anand K M	VML19ME022	A batch	2	2	2	2	2	2	2		S8	4	anandkm007@gmail.com	8078055685
2-4-2023 14:24:56	Pranav pv	6332	A batch	3	3	3	3	3	3	3		S8	4	pranav2000@gmail.com	7902952781
2-4-2023 15:59:14	Vinshith V V	VML19ME061	A batch	3	3	3	3	3	3	3		S8	5	vishithvino@gmail.com	907458223
2-4-2023 16:04:20	Sourav Sajeevan	VML19ME066	A batch	3	3	3	3	3	3	3		S8	5	sourav_sajeevan_s22@gm	08589802962
2-4-2023 16:04:19	Joel Mathew	VML19ME037	A batch	3	3	3	3	3	3	3		S8	5	joelmathew357@gmail.com	9492823576
2-4-2023 16:05:59	SOORAJ C A	VML19ME053	A batch	3	3	3	3	3	3	3		S8	5	soorajc06@gmail.com	7025545208
2-4-2023 16:07:25	Rishabh Mohan	VML19ME049	A batch	3	3	2	3	3	3	3		S8	5	rishabhmohan@gmail.com	8089837040
2-4-2023 16:11:30	NIVED P	VML19ME045	A batch	3	3	3	3	3	3	3		S8	5	nivedpachmarathar@gmail	9605954448
2-4-2023 16:12:35	VISHNU M	VML19ME063	A batch	3	3	3	3	3	3	3		S8	5	vishnuvishnu@gmail.com	8289827061
2-4-2023 16:16:16	Vijay Krishna A K	Vml19me069	A batch	2	2	2	2	2	2	2	Nil	S8	4	vikrasha001@gmail.com	89066113101
2-4-2023 16:17:38	Abhin Abraham	VML19ME018	A batch	3	3	3	3	3	3	3		S8	4	abhinabrahm2001@gmail.c	811845962
2-4-2023 16:21:09	Sanjal Alex Chacko	VML19ME051	A batch	3	3	3	3	3	3	3		S8	5	sanjalalex@gmail.com	8281995961
2-4-2023 16:39:21	ULSAV ULLAS	VML19ME058	A batch	3	3	3	3	3	3	3		S8	5	ulsav1963@gmail.com	9400149469
2-4-2023 16:53:27	AKASH PP	VML19ME014	A batch	3	3	3	3	3	3	3		S8	4	akashabash111@gmail.co	8590193999
2-4-2023 17:47:06	AJITH JOHNY	VML19ME009	A batch	3	3	3	3	3	3	3		S8	5	ajithjohnson@gmail.com	9186670334
2-4-2023 17:48:11	VYSHAKH M	VML19ME065	A batch	3	3	3	3	3	3	3		S8	5	vysakhm001@gmail.com	7025610035
2-4-2023 17:49:29	Ajnas A K	VML19ME010	A batch	3	3	3	3	3	3	3		S8	5	ajnasak2001@gmail.com	9562632808
2-4-2023 18:23:15	Jyothish Prakash K	VML19ME039	A batch	3	3	3	3	3	3	3	Try to add more	S8	4	jyothishkpr@gmail.com	9544926114
2-4-2023 18:37:24	Alok babu	VML19ME020	A batch	2	2	2	2	2	2	2	Nil	S8	4	alokbabu01@gmail.com	8078500173
2-4-2023 19:55:29	Aswin M	VML19ME028	A batch	3	3	3	3	3	3	3		S8	5	aswinm012@gmail.co	8289873252
2-6-2023 17:45:41	Ajithal MK	VML19ME012	A batch	3	3	3	3	3	3	3		S8	4	ajithal001@gmail.com	7559089836
2-4-2023 18:08:55	ajith johny	Vml19me009	A batch	3	3	3	3	3	3	3	Nothing	S8	5	ajithjohnson@gmail.com	9186670334
2-4-2023 13:48:20	Akash P	VML19ME013	B batch	3	3	3	3	3	3	3	No	S8	5	akashpachch@gmail.com	81596094172
2-4-2023 13:49:33	ALAN MATTHEW	VML19ME016	B batch	3	3	3	3	3	3	3		S8	5	alanmatthewakayem@gm	8281172362
2-4-2023 13:53:29	Anju	028	B batch	2	2	1	2	2	2	2		S8	2	anjum009@gmail.com	808456159
2-4-2023 13:54:16	ABHIN BABU V B	VML19ME003	B batch	3	3	3	3	3	3	3		S8	5	abhinababu_b@gmail.com	9562494728
2-4-2023 13:57:03	Yadhu Krishnan K V	VML19ME068	B batch	3	3	3	3	3	3	3		S8	4	yadhu_kr123@gmail.com	7592816399
2-4-2023 14:04:27	Jeemel Jiju Abraham	VML19ME038	B batch	3	3	3	3	3	3	3		S8	5	jeemelj19@gmail.com	+919078292150
2-4-2023 14:06:16	Alan Vyathnav P	VML19ME017	B batch	3	3	2	2	2	2	2	Nil	S8	4	alanvyathnavp1@gmail.com	9695814420
2-4-2023 14:11:07	Ajo Antony Mathew	VML19ME011	B batch	2	2	2	2	2	2	2		S8	4	ajoyantonyathnav@gmail.c	9998201962
2-4-2023 14:16:44	Vinayak Ramachand	VML19ME060	B batch	3	3	3	3	3	3	3		S8	4	vinayakramachand@gmail.c	9661249902
2-4-2023 14:21:02	P R Sarath	VML19ME048	B batch	3	3	3	3	3	3	3		S8	4	prathar2001@gmail.com	7034159907
2-4-2023 14:35:48	Amal Joshy	VML19ME021	B batch	3	3	3	3	3	3	3		S8	4	amalgoshy00@gmail.com	7558813871
2-4-2023 16:04:08	Milan s challi	VML19ME041	B batch	3	3	3	3	3	3	3		S8	4	milanchalli@gmail.com	9562634983
2-4-2023 16:04:11	Abhiram Suresh	VML19ME004	B batch	3	3	3	3	3	3	3		S8	5	abhiramsuresh151@gmail	+919539398740
2-4-2023 16:04:37	Adarsh PR	Vml19me007	B batch	3	3	3	3	3	3	3		S8	5	adarshprreth001@gmail	8289954171
2-4-2023 16:05:50	Rithin Manu P V	VML19ME050	B batch	3	3	3	3	3	3	3		S8	4	rithinmanu@gmail.com	9374023379
2-4-2023 16:18:24	Ajith James	VML19ME054	B batch	2	2	2	2	2	2	2		S8	4	ajithjames111@gmail.co	9647191515
2-4-2023 16:52:09	Pranav K V	VML19ME008	B batch	3	3	3	3	3	3	3		S8	5	pranavkrishnan123@gmail	7025351547
2-4-2023 16:54:08	VISHNU PRAKASH	VML19ME064	B batch	3	3	3	3	3	3	3	Nil	S8	4	vishnuprakash0844@gmail	9497341239
2-4-2023 16:54:12	Muhammed Afrah M	VML19ME042	B batch	3	3	3	3	3	3	3		S8	5	muhammedafrah@gmail	9207828028
2-4-2023 16:58:11	SAYANTH SASINDRA	VML19ME052	B batch	2	2	2	2	2	2	2		S8	4	sayanth15@gmail.com	8948919887
2-4-2023 17:48:13	Dheeraj R	VML19ME032	B batch	3	3	3	3	3	3	3		S8	5	dheeraj12@gmail.com	9547723795
2-4-2023 17:54:45	Sreeraj P	VML19ME058	B batch	3	3	3	3	3	3	3		S8	5	sreerajp001@gmail.com	9186670334
2-4-2023 18:20:16	Navya ganesha babu	Vml19me043	B batch	3	3	3	3	3	3	3	Nil	S8	5	navyaganesha@gmail.c	9186670334
2-4-2023 18:20:34	Fazal Ul Haque V P	VML19ME034	B batch	3	3	3	3	3	3	3	Good	S8	4	fazalulhaqueulhaque@gmail.c	95497422948
2-4-2023 18:31:19	VISHNU K	VML19ME062	B batch	3	3	3	3	3	3	3		S8	5	vishnu_krishnan02@gmail.co	9465487890
2-4-2023 19:15:54	DYUTHIN E	VML19ME017	B batch	3	3	3	3	3	3	3		S8	5	dyuthinew001@gmail	8289954171
2-4-2023 19:33:54	Alan Vyathnav P	VML19ME017	B batch	3	3	2	2	2	2	2	Nil	S8	4	alanvyathnavp1@gmail.com	9647733810
2-4-2023 19:49:23	Dheeraj R	VML19ME032	B batch	3	3	3	3	3	3	3		S8	5	dheeraj12@gmail.com	9547723795
2-4-2023 20:36:15	Benedict J Sebastian	VML19ME029	B batch	3	3	3	3	3	3	3		S8	5	benedictjsebastian00@gmail	8281481130

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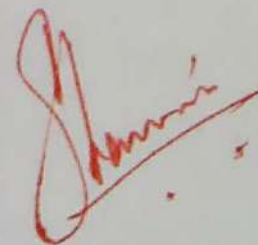
Timestamp	Name:	Register Number:	Batch:	On a scale of 1 to 3 how do you rate the add-on course classes? 1 - Poor 2 - Satisfactory 3 - Excellent	The software's and tools discussed during this event was relevant and met your curriculum gaps. (PO1, PO2, PO3, PO4, PO5) 1 - Poor 2 - Satisfactory 3 - Excellent	You got sufficient opportunity for exploring your creativity, technical skills and improving your design ideas on MEP (PO3, PO4, PO5, PSO1, PSO2): 1 - Poor 2 - Satisfactory 3 - Excellent	The software tools helped you in designing and developing a demonstrable project, which can be used in mechanical based industrial sectors. (PO5, PO12, PSO1, PSO2): 1 - Poor 2 - Satisfactory 3 - Excellent	Were you able to perform effectively as an individual and follow the instructions? (PO9, PO11, PO12): 1 - Poor 2 - Satisfactory 3 - Excellent	Will the software's included in the add-on course be able to contribute to the society, modern engineering and global requirements? (PO3, PO5, PSO1, PSO2): 1 - Poor 2 - Satisfactory 3 - Excellent	What is your level of learning on Revit & Autodesk Inventor after this add-on course? (PO12): 1 - Poor 2 - Satisfactory 3 - Excellent	Your suggestions for improvements in upcoming Add-n courses:	Semester:	On a scale of 5 rate your learning level of BIM tools after this add-on course?	Email address:	Contact number:
2-4-2023 13:46:22	Stalin Santo	VML19ME057	A batch	3	3	3	3	3	3	3		S8	5	stalinanto3000@gmail.com	9526293808
2-4-2023 13:46:23	ABHIJITH K P	VML19ME001	A batch	3	3	3	3	3	3	3	Increase the time	S8	5	abhihiptkundan@gmail.com	9995635322
2-4-2023 13:46:28	ANUGRAH JEEVAN	VML19ME026	A batch	3	3	3	3	3	3	3		S8	5	anupap715@gmail.com	7909213621
2-4-2023 13:51:08	Aarath P	VML19ME068	A batch	3	3	3	3	3	3	3		S8	4	arathp01@gmail.com	7510317819
2-4-2023 13:51:23	Chinmay Nambiar C	VML19ME031	A batch	3	2	2	2	2	2	2		S8	4	chinmaynambiar@gmail.com	8209988118
2-4-2023 13:51:28	Alan Kuriakose	VML19ME015	A batch	3	3	3	3	3	3	3	Nil	S8	5	alanuriakose2030@gmail.com	8078638364
2-4-2023 13:51:32	GOKUL P V	VML19ME036	A batch	3	3	3	3	3	3	3		S8	5	gokulpv001@gmail.com	9495365520
2-4-2023 13:52:37	LIBIN SHAJI	VML19ME040	A batch	3	3	3	3	3	3	3		S8	5	libinshaji01@gmail.com	8238353681
2-4-2023 13:52:40	Abhinav KT	VML19ME002	A batch	3	3	3	3	3	3	3		S8	5	abhinavkt001@gmail.com	8590689298
2-4-2023 13:58:34	Anex Mathew	VML19ME024	A batch	3	3	3	3	3	3	3		S8	5	anexmathew231@gmail.com	8238993969
2-4-2023 14:12:00	Uisav Ullas	VML19ME068	A batch	3	3	3	3	3	3	3		S8	5	ullas1903@gmail.com	9400149469
2-4-2023 14:15:11	Anand K M	VML19ME022	A batch	2	2	2	2	2	2	2	It was nice knowing of	S8	5	anandkm97@gmail.com	8078055085
2-4-2023 14:24:56	Pranav PV	6332	A batch	3	3	3	3	3	3	3		S8	4	pranavpv2000@gmail.com	7902952781
2-4-2023 15:59:14	Vinshith V V	VML19ME061	A batch	3	3	3	3	3	3	3		S8	5	vinshithv@gmail.com	9074588223
2-4-2023 16:04:20	Sourav Saleevan	VML19ME065	A batch	3	3	3	3	3	3	3		S8	5	souravsaleevan22@gmail.com	08589802562
2-4-2023 16:04:19	Joel Mathew	VML19ME037	A batch	3	3	3	3	3	3	3		S8	5	joelmthw357@gmail.com	9496283576
2-4-2023 16:05:59	SOORAJ C A	VML19ME063	A batch	3	3	3	3	3	3	3		S8	5	soorajc@gmail.com	7025545208
2-4-2023 16:07:25	Rishabh Mohan	VML19ME049	A batch	3	2	2	2	2	2	2		S8	5	rishabhmo@gmail.com	809837040
2-4-2023 16:11:30	NIVED P	VML19ME045	A batch	3	2	2	2	2	2	2		S8	4	nivedp@gmail.com	9609985446
2-4-2023 16:12:35	VISHNU M	VML19ME063	A batch	3	3	3	3	3	3	3		S8	5	vishnum95@gmail.com	8286827061
2-4-2023 16:16:16	Vijay Krishna A K	Vml19me059	A batch	2	2	2	2	2	2	2	Nil	S8	3	vijaykrishna@gmail.com	8096611301
2-4-2023 16:17:38	Albin Abraham	VML19ME018	A batch	3	3	3	3	3	3	3		S8	4	albinabraham2001@gmail.com	811845982
2-4-2023 16:21:09	Sanjal Alex Chacko	VML19ME051	A batch	3	3	3	3	3	3	3		S8	4	sanjalalex@gmail.com	9400149469
2-4-2023 16:39:21	ULSAV ULLAS	VML19ME068	A batch	3	3	3	3	3	3	3		S8	5	ulsavullas@gmail.com	8281368501
2-4-2023 16:53:27	AKASH PP	VML19ME014	A batch	3	3	3	3	3	3	3		S8	5	akashpp2001@gmail.com	8590193900
2-4-2023 17:47:00	AJITH JOHNY	VML19ME009	A batch	3	3	3	3	3	3	3		S8	5	ajithjohny@gmail.com	9189970334
2-4-2023 17:48:11	VYSHAKH M	VML19ME065	A batch	3	3	3	3	3	3	3		S8	5	vysakhm001@gmail.com	7025610035
2-4-2023 17:49:20	Anas A K	VML19ME010	A batch	3	3	3	3	3	3	3		S8	5	anasak2001@gmail.com	9496283288
2-4-2023 18:23:15	Jyothis Prakash K	VML19ME039	A batch	3	3	3	3	3	3	3	Try to add more	S8	4	jyothisk@gmail.com	9444928174
2-4-2023 18:37:24	Alok babu	Vml19me020	A batch	2	2	2	2	2	2	2	Nil	S8	4	alokbabu01@gmail.com	8078500723
2-4-2023 18:55:20	Aswin M	VML19ME028	A batch	3	3	3	3	3	3	3		S8	5	aswinm001@gmail.com	8289873052
2-8-2023 17:45:41	Ajithaai MK	VML19ME012	A batch	3	2	2	2	2	2	2		S8	4	ajithaai001@gmail.com	7559698936
2-4-2023 13:48:20	Akash P	VML19ME013	A batch	3	3	3	3	3	3	3		S8	5	akashp001@gmail.com	9189970334
2-4-2023 13:49:33	ALAN MATHEW	VML19ME016	B batch	3	3	3	3	3	3	3		S8	5	alanmathewak@gmail.com	8159099472
2-4-2023 13:53:25	Ajju	025	B batch	3	3	3	3	3	3	3	Nothing	S8	5	ajjup006@gmail.com	828112392
2-4-2023 13:54:16	ABHIN BABU V B	VML19ME003	B batch	2	2	2	2	2	2	2	No	S8	2	abhinbabu01@gmail.com	8096611301
2-4-2023 13:57:03	Yadhu Krishnan K V	VML19ME066	B batch	3	3	3	3	3	3	3		S8	5	yadhu123@gmail.com	7592816399
2-4-2023 14:04:27	Jeeneel Jiju Abraham	VML19ME036	B batch	3	2	2	2	2	2	2		S8	4	jeeneel19@gmail.com	4919539398740
2-4-2023 14:08:16	Alan Vishnav P	VML19ME017	B batch	2	2	2	2	2	2	2		S8	4	alanvishnavp@gmail.com	999874420
2-4-2023 14:11:07	Alo Antony Mathew	VML19ME011	B batch	2	2	2	2	2	2	2		S8	4	aloantony@gmail.com	8096611301
2-4-2023 14:16:44	Vinayak Ramachand	VML19ME040	B batch	3	3	3	3	3	3	3		S8	4	vinayakramachand@gmail.com	8096611301
2-4-2023 14:21:02	P R Sarath	VML19ME048	B batch	3	3	3	3	3	3	3		S8	5	prsarath001@gmail.com	999874420
2-4-2023 14:35:48	Amal Joshy	Vml19me021	B batch	3	3	3	3	3	3	3		S8	4	amaljoshy@gmail.com	8096611301
2-4-2023 16:04:11	Abhiram Suresh	VML19ME004	B batch	3	3	3	3	3	3	3		S8	5	abhiramsuresh015@gmail.com	9496283288
2-4-2023 16:04:37	Adarsh PR	Vml19me007	B batch	3	3	3	3	3	3	3		S8	5	adarshpr001@gmail.com	9496283288
2-4-2023 16:05:50	Rithin Manu P V	VML19ME060	B batch	3	3	3	3	3	3	3		S8	4	rithinmanu111@gmail.com	9496283288
2-4-2023 16:09:20	Sourabh Sugathan	VML19ME054	B batch	2	2	2	2	2	2	2		S8	4	sourabh123@gmail.com	7592816399
2-4-2023 16:18:24	Alith James	VML19ME008	B batch	3	3	3	3	3	3	3		S8	5	alithjames19@gmail.com	999874420
2-4-2023 16:52:09	Pranav K V	VML19ME046	B batch	3	3	3	3	3	3	3		S8	4	pranavkv001@gmail.com	8096611301
2-4-2023 16:54:12	MUHAMMED AFIKH M	VML19ME044	B batch	3	3	3	3	3	3	3		S8	5	muhammedafikh01@gmail.com	9496283288
2-4-2023 16:58:11	SAYANTH SASINDRA	VML19ME052	B batch	2	2	2	2	2	2	2		S8	4	sayanth111@gmail.com	9496283288
2-4-2023 17:48:13	Dheeraj R	VML19ME032	B batch	3	3	3	3	3	3	3		S8	5	dheerajr001@gmail.com	9496283288
2-4-2023 17:54:45	Sreeraj P	Vml19me043	B batch	3	3	3	3	3	3	3		S8	5	sreerajp001@gmail.com	9496283288
2-4-2023 18:20:16	Navhya Ganesh Babu	VML19ME034	B batch	3	3	3	3	3	3	3		S8	4	navhyaganeshbabu@gmail.com	8096611301
2-4-2023 18:20:34	Fazal Uli Haque V P	VML19ME062	B batch	3	3	3	3	3	3	3		S8	5	fazalulihaque001@gmail.com	9496283288
2-4-2023 18:31:19	VISHNU K	VML19ME082	B batch	3	3	3	3	3	3	3		S8	5	vishnu001@gmail.com	8096611301
2-4-2023 18:15:54	DYUTHIN E	VML19ME033	B batch	3	3	3	3	3	3	3		S8	5	dyuthin001@gmail.com	8096611301
2-4-2023 18:33:54	Alan Vishnav P	VML19ME017	B batch	3	2	2	2	2	2	2		S8	4	alavishnavp@gmail.com	8096611301
2-4-2023 18:49:23	Dheeraj R	VML19ME032	B batch	3	3	3	3	3	3	3		S8	5	dheerajr001@gmail.com	9496283288
2-4-2023 20:36:15	Benedict J Sebastian	VML19ME028	B batch	3	2	2	2	2	2	2		S8	5	benedictjsebastian001@gmail.com	8096611301

*Stalin*



## Post Event Impact Analysis Report

1	Event type and name	Type: ADD-ON COURSE Name: BIM tools
2	Date and time	31-01-2023 to 05-02-2023: from 09.00 am to 04.00 pm
3	Participants/ audience	S8 Mechanical Engineering Students
4	Venue	CAD/CAM Lab
5	Outcomes of the event	<p>CO1: Students will be able to create, modify, and edit building spaces in Autodesk Revit to perform heating and cooling load analysis and determine HVAC system requirements. They will be able to design an HVAC system that meets industry standards and satisfies the building's requirements.</p> <p>CO2: Students will be able to design ducts, duct fittings, air terminals, and air supply systems using HVAC modeling tools in Autodesk Revit. They will be able to ensure that the HVAC system is efficient, effective, and meets industry standards.</p> <p>CO3: Students will be able to create, modify, and edit plumbing and electrical systems in a building using Autodesk Revit. They will be able to inspect these systems for errors and ensure that they meet the building's requirements and industry standards.</p> <p>CO4: Students will be able to develop proficiency in mechanical three-dimensional modeling using parametric modeling tools in Autodesk Inventor. They will be able to use these tools to create complex mechanical models that are efficient, accurate, and meet industry standards.</p>

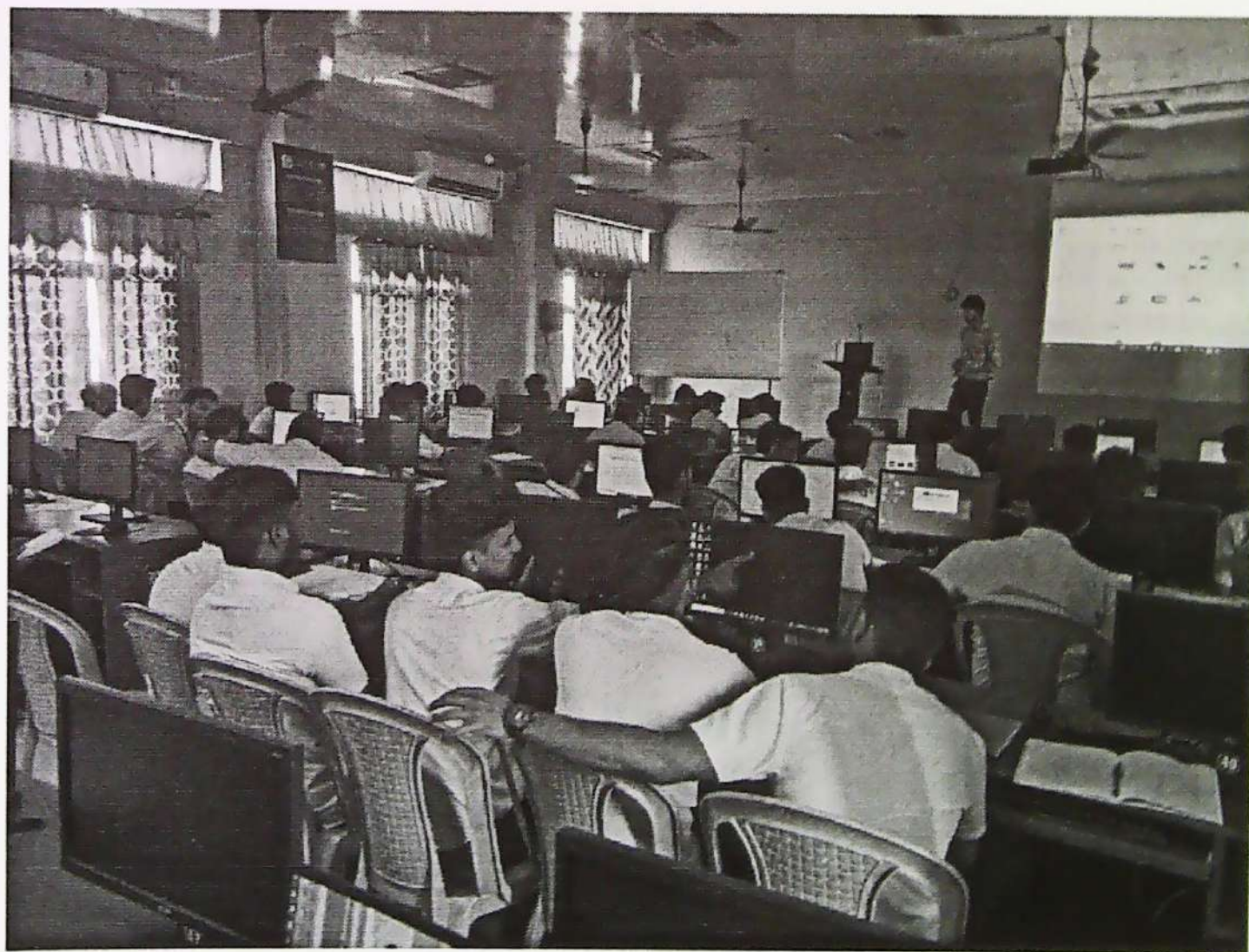
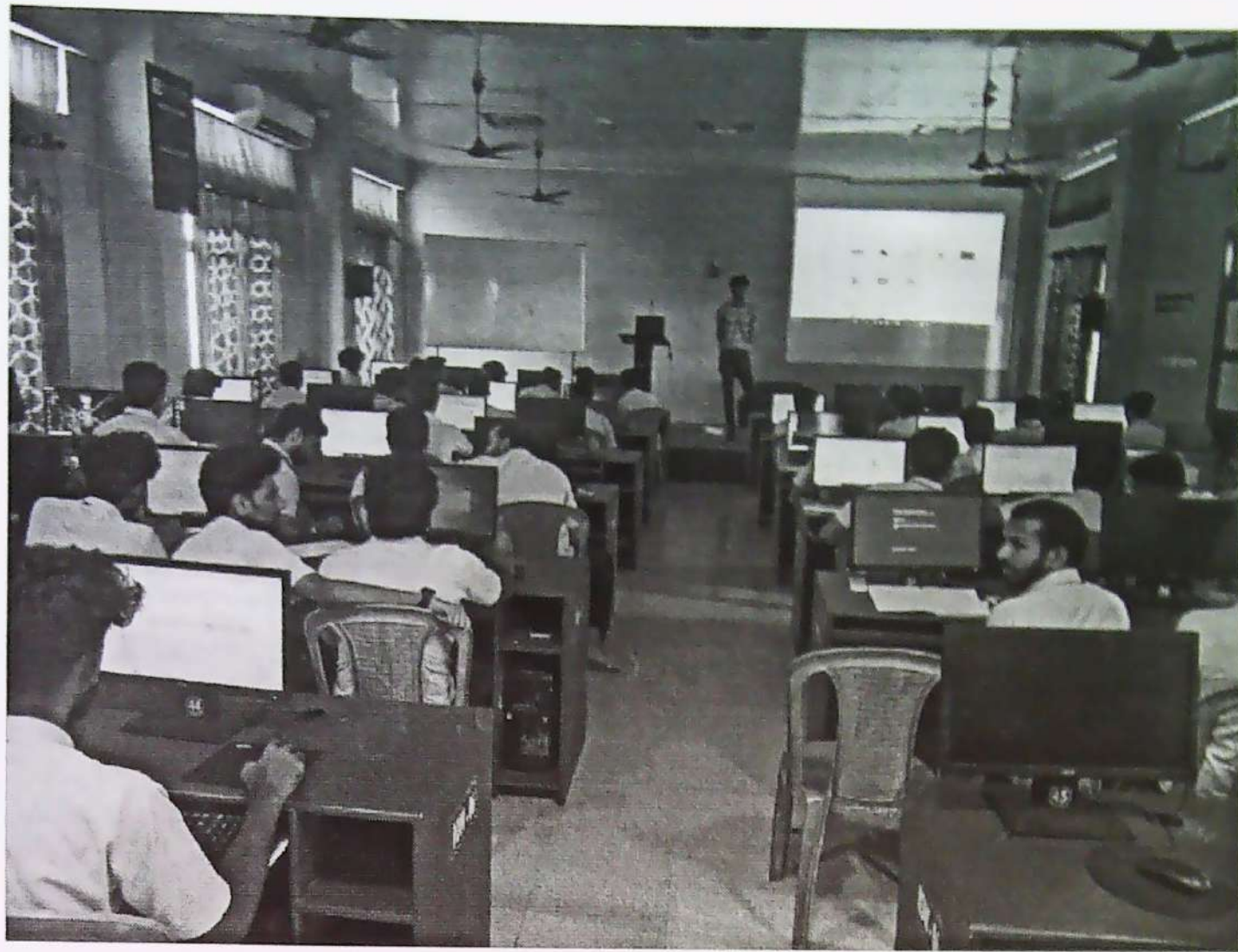




	Attainment level of outcomes	<p>Average level of 3 attained</p> <hr/> <p>Feedback forms are attached</p>
6	Connected POs/COs	PO2,PO3,PO5,PO10,PSO1,PSO2
7	Any other relevant information	NIL
8	Responsible persons	<p><i>Shamin</i> 06/02/2023</p> <p>Report prepared by Mr. Shamin Muth KK</p> <p><i>Raju</i> 08/02/2023</p> <p>Approved by Cdr. Raju K K (Retd.) HOD ME</p>



Event photographs:



*Hammis*





# CERTIFICATE OF TRAINING

Proudly presented to

**Sreeraj p**

You have successfully completed the Autodesk® Inventor beginner level training from an Authorized Training Center® course specifically designed to satisfy your training requirements. Authorized Training Center instructors deliver quality-learning experiences with courses related to Autodesk products utilizing relevant content and comprehensive courseware. Autodesk's vision is to help people imagine, design, and create a better world.

**ANANDHU A**

Instructor

**03 March 2023**

Issuing date

**Issue Certificate ID**

AP702481097323045178193