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7.2.1.1 Best Practice 1

1. Title of the Practice
Value-added course: Digital Learning and Innovation in Architectural Studio

2. Objectives of the Practice
The main objectives of the course are to:

- To integrate advanced digital tools and technologies into architectural education.
- To enhance the learning experience using various 2D and 3D modelling software and AI concepts.
- To prepare students for the modern, technology-driven architectural profession.

3. The Context

The field of architecture is rapidly evolving with the advent of new technologies. Proficiency in 3D modelling software, and rendering tools, and understanding AI applications are crucial for contemporary architectural practice. This practice aims to equip students with these essential skills to enhance their design capabilities and employability.

4. The Practice

First Year: Digital Collaging for Conceptualization

- Introduction to digital collaging tools and techniques to help students in the early stages of design conceptualization.
- Hands-on projects where students create digital collages to explore and present their design ideas.

Second Year: AutoCAD, 3D Modelling, Rendering Software, and Presentation Tools

- Comprehensive training in AutoCAD for precision drafting and 2D documentation.
- Introduction to 3D modelling software such as Sketch Up for developing detailed architectural models.
- Training in rendering software like Twin Motion and Lumion to create photorealistic visualizations of their designs.
- Introduction to presentation software such as Adobe InDesign, Photoshop, and Illustrator to create professional-quality presentation sheets and portfolios.

Third Year: Parametric and BIM Software, AI Generative Design, Energy Modelling, and Advanced Presentation Tools

- Advanced training in parametric design tools and Building Information Modelling (BIM) software such as Rhino and Revit.
- Introduction to AI generative design concepts to help students develop innovative design solutions.

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- Training in energy modelling software like Autodesk Eco tect and plugins such as Autodesk Forma to incorporate sustainability considerations into their designs.
- Continued use and advanced techniques in Adobe InDesign, Photoshop, and Illustrator for professional presentations and documentation.

Faculty members receive continuous training to proficiently use these digital tools and integrate them into their teaching methodologies.

Studio sessions are designed to be hands-on, allowing students to work on real-world projects using these tools. Assignments and projects are structured to encourage creativity and innovation through digital modelling and AI applications.

5. Evidence of Success:

- Increased proficiency and confidence among students in using various digital tools and software across different years of study.
- Successful completion of complex design projects showcasing the application of learned digital tools.
- Positive feedback from students regarding the enhanced learning experience and their preparedness for professional practice.
- Recognition of students' work by Architectural Firms during their internship period and as junior architects.

6. Problems Encountered and Resources Required:

- Initial resistance from some students and faculty members towards adopting new technologies.
- Requirement of high-end hardware and software licenses, which entail significant financial investment.
- Solutions include providing continuous training sessions for faculty and students, securing funding and grants for purchasing necessary equipment, and establishing partnerships with software companies for educational licenses.

7. Conclusion

Continuous evaluation and updating of the digital curriculum ensure that it remains relevant to industry trends and technological advancements. Collaboration with industry experts and alumni helps in providing students with insights into real-world applications and emerging trends in digital architecture.

Report on Digital Learning and Innovation in Architectural Studio:

- **Rhino Workshop, Autocad Workshop, Revit Workshop, Structural Technical Session- CLICK TO VIEW**

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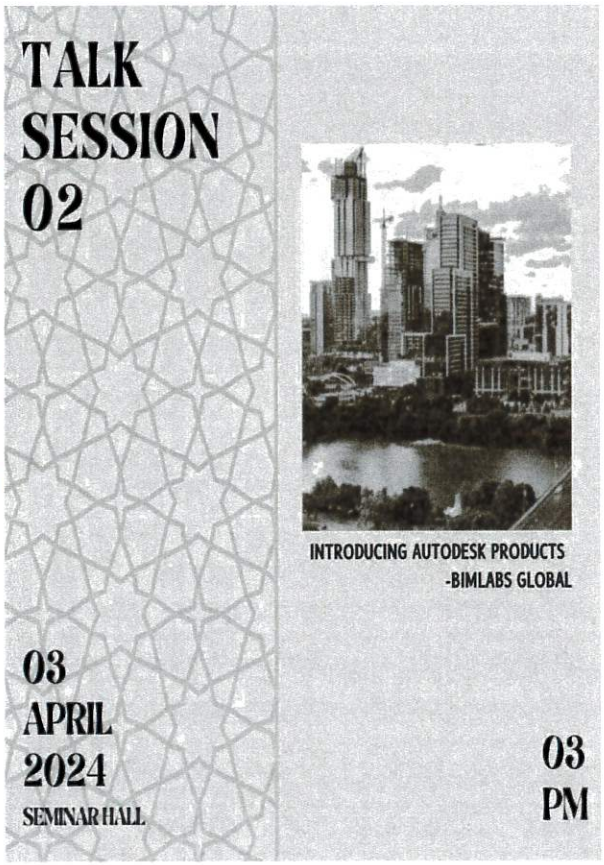
Talk Session

Explore the forefront of innovation with BIMLABS GLOBAL as they unravel the newest technologies dominating the...



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Circular

Sub: BIM LAB Workshop

It is planned to conduct a BIM LAB Workshop for S3 and S5 students. The workshop will commence on 04-03-2024 and will be held at TKMSA S3 and S5 Studio.

Students who are willing to attend can enrol their names to the event coordinator.

Workshop	Coordinator
BIM LAB Workshop	**Ar.Vidya Kamath**
Commencement of workshop is on 04-03-2024 Time - 10.00am to 5.00pm	

Event Coordinator **IQAC Coordinator** **Principal**

02-03-2024

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Student Participation - Attendance Sheet

Program: BIM WORKSHOP

Conducted By: BIM LABS GLOBAL

No.	NAME					
1						
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Faculty Coordinator

Principal

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BIM LAB Workshop

Topic : BIM LAB Workshop	**Date :** 04-03-2024
Venue : Seminar Hall	**Time** 09:00 am to 04:00 pm
Resource Person : BIMLABS Global	**Name of Coordinator :** Ar.Vidya Kamath

The BIM LAB workshop conducted at our architecture college provided students with comprehensive training in Building Information Modeling (BIM), an essential methodology for modern architectural design and construction. Held recently, the one-day workshop was led by a single expert instructor who guided participants through the core concepts and advanced applications of BIM.

The workshop began with an introduction to the fundamentals of BIM. Students were familiarized with the basic principles, including the creation, management, and use of digital representations of physical and functional characteristics of places. The initial session laid the groundwork by explaining how BIM integrates various aspects of the design and construction process into a cohesive model.

Following the introductory session, the workshop transitioned into hands-on training where students could apply their newly acquired knowledge. The instructor led practical exercises that involved creating and managing BIM models, setting up project parameters, and exploring various modeling techniques. Students worked on individual projects, allowing them to experiment and understand the practical applications of BIM in real-world architectural scenarios.

In the afternoon, the workshop delved into more advanced topics, including collaborative workflows, clash detection, and the use of BIM for project management. The instructor demonstrated how to leverage BIM's extensive toolset for complex design and construction tasks, enabling students to create highly detailed and coordinated models. Insights into optimization techniques and best practices were provided, ensuring that students could efficiently use BIM in their future projects.

A segment of the workshop was dedicated to teaching students how to integrate BIM with other architectural and construction software such as Revit, Navisworks, and AutoCAD. This part emphasized the importance of interoperability in design and construction, showing how to import and export files seamlessly, thus enhancing workflow efficiency.

The instructor also highlighted the practical applications of BIM in various architectural fields. Case studies were presented to showcase how leading firms utilize BIM for design,

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construction, and facility management. These examples served to inspire students and provide a broader understanding of BIM's potential.

Throughout the day, the instructor provided personalized guidance and feedback to the participants. This interactive approach allowed students to address specific challenges they encountered and receive tailored advice on improving their BIM skills. The collaborative environment encouraged peer learning and idea exchange, further enriching the educational experience.

An important theme of the workshop was the role of BIM in promoting sustainable design practices. The instructor discussed how BIM can be used to model energy-efficient buildings, optimize resource usage, and create environmentally friendly designs. The integration of BIM with sustainable design tools was emphasized, aligning with the current trends in green architecture.

Overall, the BIM LAB workshop provided architecture students with an invaluable skill set, enhancing their ability to create detailed and innovative BIM models. The comprehensive training, covering both basic and advanced techniques, ensured that participants could confidently use BIM for their architectural projects. The emphasis on practical applications, sustainability, and integration with other software made the workshop a well-rounded and highly beneficial experience for all attendees. This workshop not only improved students' technical proficiency but also inspired them to push the boundaries of their design capabilities using BIM.

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BIM LAB

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BIM LAB

The software classes were informative and well organised. The instructor was knowledgable but could be more engaging. They introduced us with very important and useful softwares for our future architecture life.
Overall the class provided a good foundation but could improve in student interaction.

RITHIKA KARTHA
Rithika

The BIM software classes offered practical, hands on Learning, Excellent instructor guidance and Valuable insights into modern architecture, and Construction practices.

MK Rukiya Nida

The classes done by BIM Lab opened our knowledge on architecture softwares and made it more easy to be learned. The inspectors and guiders were more delicate and were dedicated to teach us extremely interactively. This valuable session improved our excellence in architectural softwares

SIVANI S. KRISHNA

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THIS DIPLOMA IS PRESENTED TO

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FROM TKM SCHOOL OF ARCHITECTURE

In recognition of participation and achievement in completing the BIM LAB Workshop by BIM LABS Global conducted on 04-03-2024.

AR. VIDYA KAMATH
Event Coordinator

AR. GEORGE JACOB
Principal

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AR. GEORGE JACOB
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From
Ar.Vidya kamath
TKMSA

To
The Principal
TKMSA

Subject: Permission for Rhino Workshop

Dear Sir,

I am writing to seek permission to conduct a workshop on Rhino Software for the S6 batch of architecture students. This course will be conducted by Ar. John Sajan an esteemed faculty member with extensive expertise in Rhino Software.

Course Details:

- **Course Title: Rhino Workshop**
- **Instructor:** Ar. John Sajan, Graha Architecture
- **Target Audience:** S6 Batch Architecture Students
- **Duration:**2 Days

We believe that this workshop will significantly benefit our architecture students by broadening their skill set and fostering a deeper appreciation in architectural design. We kindly request your approval to proceed with organising this course.

So kindly permit us to conduct the above workshop

Sincerely,

Ar.Vidya Kamath

Event Coordinator

Event Coordinator

Principal
20-12-2023

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Circular

Sub: **Rhino Workshop**

It is planned to conduct a Workshop on Rhino Software for S6 students.The workshop will commence on 17th of May 2024 and will be held in 2 Days at TKMSA S6 Studio.

Students who are willing to attend the Course can enrol their names to the event coordinator.

Workshop	Coordinator
Rhino Software	**Ar.Vidya Kamath**
Commencement of workshop is on 17-05-2024 and 18-05-2024 Time- 10.00am to 1.00pm & 2.00pm to 4.00pm	

Event Coordinator **IQAC Coordinator** **Principal**

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INTRO TO RHINO 3D

AR. JOHN SAJAN, GRAHA ARCHITECTURE

LEARN 3D MODELLING WITH RHINOCEROS 3D

By the end of the course, participants will have learnt the principles principles and commands to model their architecture projects on Rhino and 3D

Monday, 17 May 2024

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RHINO WORKSHOP

Topic : Rhino Workshop	**Date :** 17-05-2024 and 18-05-2024
Venue : Seminar Hall	**Time :** 09:00 am to 04:00 pm
Resource Person : Ar. John Sajan, Graha Architecture	**Name of Coordinator :** Ar.Vidya Kamath

The Rhino software workshop conducted at our architecture college provided students with comprehensive training in the use of Rhino, a powerful 3D modeling software essential for modern architectural design. Held recently, the one-day workshop was led by a single expert instructor who guided participants through both the fundamentals and advanced functionalities of the software.

The workshop began with an introduction to Rhino's interface and basic tools. Students were familiarized with the software's capabilities, including its precision modeling, drafting, and rendering features. The initial session focused on the foundational skills necessary to navigate Rhino efficiently and utilize its core functions.

Following the introductory session, the workshop transitioned into hands-on training where students could apply their newly acquired knowledge. The instructor led practical exercises that involved creating 3D models from scratch, manipulating complex geometries, and exploring various modeling techniques. Students worked on individual projects, allowing them to experiment and understand the practical applications of Rhino in real-world architectural scenarios.

In the afternoon, the workshop delved into more advanced techniques, including parametric design and the use of plugins like Grasshopper. The instructor demonstrated how to leverage Rhino's extensive toolset for complex design tasks, enabling students to create intricate and highly detailed models. Insights into optimization techniques and best practices were provided, ensuring that students could efficiently use the software in their future projects.

A segment of the workshop was dedicated to teaching students how to integrate Rhino with other architectural software such as AutoCAD and Revit. This part emphasized the importance of interoperability in architectural design, showing how to import and export files seamlessly, thus enhancing workflow efficiency.

The instructor also highlighted the practical applications of Rhino in various architectural fields. Case studies were presented to showcase how leading architects utilize Rhino in their design

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processes. These examples served to inspire students and provide a broader understanding of the software's potential.

Throughout the day, the instructor provided personalized guidance and feedback to the participants. This interactive approach allowed students to address specific challenges they encountered and receive tailored advice on improving their modeling skills. The collaborative environment encouraged peer learning and idea exchange, further enriching the educational experience.

An important theme of the workshop was the role of Rhino in promoting sustainable design practices. The instructor discussed how the software can be used to model energy-efficient buildings, optimize material usage, and create environmentally friendly designs. The integration of Rhino with sustainable design tools was emphasized, aligning with the current trends in green architecture.

Overall, the Rhino software workshop provided architecture students with an invaluable skill set, enhancing their ability to create detailed and innovative 3D models. The comprehensive training, covering both basic and advanced techniques, ensured that participants could confidently use Rhino for their architectural projects. The emphasis on practical applications, sustainability, and integration with other software made the workshop a well-rounded and highly beneficial experience for all attendees. This workshop not only improved students' technical proficiency but also inspired them to push the boundaries of their design capabilities using Rhino.

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Student Participation -Attendance Sheet		
Program	**: Rhino Workshop**	
Conducted By	**: Ar. John Sajan, Graha Architecture**	
No.	**NAME**	**SIGNATURE**
1	Aabid Mohammed	
2	Aadithya Rajeevan	
3	Aafreen Nazeer kaaripaambal T	
4	Adil Hyder Ibnu Basheed	
5	Afiya M khan	
6	Agna Jahan	
7	Aishwarya A	
8	Aleena Mohamma cherian	
9	Alan N K	
10	Alfaaf PP	
11	Ameena Hussainu	
12	Ann Ashwin Thomas P	
13	Athulya Lakshmi PP	
14	Ca. Bibesy Maria	
15	Fathima Minaf	
16	Fathima Zahra MM	
17	Favaz Muhammed	
18	Gayathri Nandan	
19	Gouri Lakshmi	
20	Hajara Maryam J	
21	Hana Nizam	
22	Hanaa Haris	
23	Hazin Muhammed Ali	
24	Minha Bint Shafi	
25	Minbo Aown Simnadas	
26	Mohammed Dilshad K	
27	Pavithra A	
28	Shanza Rocha Padinharathara	
29	Sharon salman	
30	Shreejas Raj C S	
31	Sivakesh U K P	
32	Sophia Grace Joshy	
33	Soumya T S	
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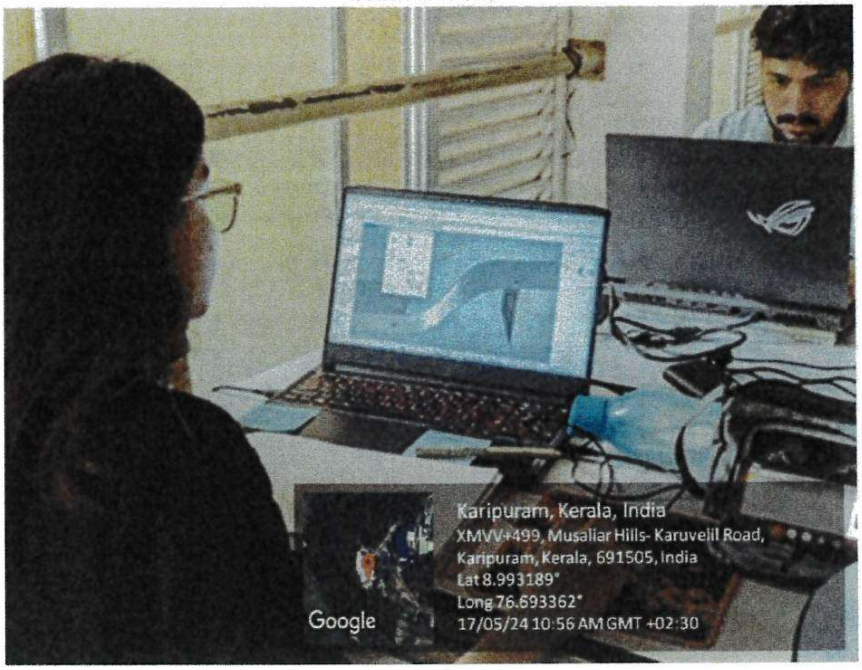
Rhino Workshop



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Rhino - Feedback

Vishnu Bhasi - It was really good, It was well explained
suggestion- to get Recordings of the same.

Vishnu Bhasi

It was a very small class but still was good.

Bricitta Sona B

It was a good session as an introduction to Rhino software.

Muhammed Sinan A.R

It was good and informative session

Pranav P.

Good class

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CERTIFICATE
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This certificate awarded to

AABID

From TKM School Of Architecture

In recognition of participation and achievement in completing the **Rhino Workshop by Ar John Sajan, Graha Architecture** conducted on **17-05-2024 & 18-05-2024**

Ar.Vidya Kamath
Event Coordinator

Ar. George Jacob
Principal

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AFYA M KHAN

From TKM School Of Architecture

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Ar.Vidya Kamath
Event Coordinator

Ar. George Jacob
Principal

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Ar.Vidya Kamath
Event Coordinator

Ar. George Jacob
Principal

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From

Er.Rintu Thomas
Event Coordinator
TKMSA

To

The Principal
TKMSA

Subject: Permission for Revit Workshop

Dear Sir,

I am writing to seek permission to conduct a Revit Workshop on 10-10-2023. This workshop will be conducted by Francois Mercer and Jonathan Patterson.

Course Details:

- **Title : Revit Workshop**
- **Instructor:** Francois Mercer and Jonathan Patterson.
- **Target Audience:** 2nd and 3rd Year
- **Duration:** 1 Day

We believe that a Revit Workshop led by a professional with esteemed background and experience would greatly benefit our students.

So kindly permit us to conduct the above workshop.

Sincerely,

Er.Rintu Thomas

Event Coordinator

Event Coordinator

Principal

08-10-2023

T.K.M. SCHOOL OF ARCHITECTURE * KOLLAM DIST. * Karuvelil P.O.

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Join us for an immersive workshop on Autodesk Revit tailored specifically for architecture students. Revit is a powerful software widely used in the architecture, engineering, and construction industries. This workshop aims to introduce you to the fundamental concepts and practical applications of Revit in architectural design.

Lecturers: Francois Mercer, Jonathan Patterson

10/10/23

Revit Workshop

Event Cell Coordinator
Rintu Thomas
9605056801

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Student Participation -Attendance Sheet

Program : Revit Workshop

Conducted By : Francois Mercer and Jonathan Patterson

No.	NAME	SIGNATURE
1	Hanaa Haris	
2	SOPHIA KOSHY	
3	AABID Mahamood	
4	Haiwa Maryam	
5	Aadithya	
6	ABHA LAHAN	
7	Agga M Khan	
8	Gaurni	
9	Meena Alexamma Cherian	
10	ALTHAF. P.P	
11	AMEENA HUSSAIN	
12	Asha Thomas	
13	SOUMYA	
14	SOHEILH PH	
15	Fathima Manal	
16	Pavithra	
17	Hana Nizam	
18	Afan N K	
19	Mintoo Arun Simmons	
20	Mazin Muhammed Ali	
21	AABID	
22	Pavithra.	
23	Mintoo.	
24	Sophia.	
25	Fathima Manal.	
26	Asha Thomas.	
27	Faiza.	
28	Blessy.	
29	Sivaranjana Roshe.	
30	Sivalekh.	
31	Shreyas Raj C.S	
32	Sivakesh V.B	
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REVIT CLASS

Topic : Revit Class	**Date :** 10-10-2023
Venue : S3 and S5 Studio	**Time :** 09:00 am to 04:00 pm
Resource Person : Francois Mercer and Jonathan Patterson	**Name of Coordinator :** Er.Rintu Thomas

The Revit software workshop conducted at our architecture college provided students with comprehensive training in the use of Revit, a crucial Building Information Modeling (BIM) software widely used in architectural design and construction. Held recently, the one-day workshop was led by a single expert instructor who guided participants through both the fundamentals and advanced functionalities of the software.

The workshop began with an introduction to Revit's interface and basic tools. Students were familiarized with the software's capabilities, including its precision modeling, drafting, and rendering features. The initial session focused on the foundational skills necessary to navigate Revit efficiently and utilize its core functions.

Following the introductory session, the workshop transitioned into hands-on training where students could apply their newly acquired knowledge. The instructor led practical exercises that involved creating 3D models of buildings, setting up views and sheets, and exploring various modeling techniques. Students worked on individual projects, allowing them to experiment and understand the practical applications of Revit in real-world architectural scenarios.

In the afternoon, the workshop delved into more advanced techniques, including parametric design, family creation, and the use of worksharing for collaborative projects. The instructor demonstrated how to leverage Revit's extensive toolset for complex design tasks, enabling students to create detailed and highly coordinated models. Insights into optimization techniques and best practices were provided, ensuring that students could efficiently use the software in their future projects.

A segment of the workshop was dedicated to teaching students how to integrate Revit with other architectural software such as AutoCAD and Navisworks. This part emphasized the importance of interoperability in architectural design and construction, showing how to import and export files seamlessly, thus enhancing workflow efficiency.

The instructor also highlighted the practical applications of Revit in various architectural fields. Case studies were presented to showcase how leading architects and construction firms utilize

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Revit in their design and project management processes. These examples served to inspire students and provide a broader understanding of the software's potential.

Throughout the day, the instructor provided personalized guidance and feedback to the participants. This interactive approach allowed students to address specific challenges they encountered and receive tailored advice on improving their modeling skills. The collaborative environment encouraged peer learning and idea exchange, further enriching the educational experience.

An important theme of the workshop was the role of Revit in promoting sustainable design practices. The instructor discussed how the software can be used to model energy-efficient buildings, perform energy analysis, and create environmentally friendly designs. The integration of Revit with sustainable design tools was emphasized, aligning with the current trends in green architecture.

Overall, the Revit software workshop provided architecture students with an invaluable skill set, enhancing their ability to create detailed and innovative BIM models. The comprehensive training, covering both basic and advanced techniques, ensured that participants could confidently use Revit for their architectural projects. The emphasis on practical applications, sustainability, and integration with other software made the workshop a well-rounded and highly beneficial experience for all attendees. This workshop not only improved students' technical proficiency but also inspired them to push the boundaries of their design capabilities using Revit.

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Revit – Feedback

Vishnu Bhasi – It was really helpful and lots of concepts was well explained. one suggestion would be to provide the Recordings of the Same.

It was a great opportunity to study Revit and introduced to it. Very Helpful

Gowri. B

within a short period of time touched almost every part of the software.

Muhammad Sajan A.R

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CERTIFICATE

O F P A R T I C I P A T I O N

THIS CERTIFICATE IS AWARDED TO :

HANA HARIS

FROM TKM SCHOOL OF ARCHITECTURE

IN RECOGNITION OF PARTICIPATION AND ACHIEVEMENT IN COMPLETING THE REVIT WORKSHOP BY FRANCOIS MERCER AND JONATHAN PATTERSON ON 10-10-2023.

ER.RINTU THOMAS
EVENT COORDINATOR

AR. GEORGE JACOB
PRINCIPAL

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ALAN N K

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