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Report on “3 Days Skill Development Workshop on Autodesk Revit”

Date: 21st August, 2025 – 23rd August, 2025

Time: 11:30 AM – 4:00 PM

Venue: Classroom 316

Introduction:

The Department of Civil Engineering organized a **3-Day Skill Development Workshop on Autodesk Revit** with the objective of equipping students with essential skills in Building Information Modeling (BIM) and modern construction technologies. Autodesk Revit, widely used software in the architecture, engineering, and construction (AEC) industry, provides powerful tools for designing, modeling, and managing building projects with accuracy and efficiency.

The workshop was designed to bridge the gap between academic learning and industry requirements by offering participants both conceptual knowledge and hands-on practice. With expert guidance from resource persons from SidB Learning Solutions Pvt. Ltd., the sessions covered a wide range of topics, including Revit's interface, project templates, families, modeling tools, components, structural elements, and BIM workflows. Through live demonstrations and interactive exercises, participants were able to develop practical skills relevant to real-world design and construction practices.

This initiative by the Department of Civil Engineering reflects its commitment to preparing students for professional challenges by exposing them to advanced digital technologies that are transforming the construction industry worldwide.

Objectives of the Workshop:

1. **To Introduce Autodesk Revit Architecture:** To Provide participants with a foundational understanding of Revit software, its file types, project templates, and families, enabling them to start working on projects independently.

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2. **To Familiarize Students with Revit's Interface and Tools:** To Help participants explore the Graphical User Interface (GUI), application menus, quick access tools, and navigation features to improve productivity.
3. **To Develop Skills in Construction Modeling:** To Train students in creating and dividing parts, developing building plans, and incorporating structural components like columns into projects.
4. **To Provide Hands-on Experience in Architectural Components:** To Enable participants to design and modify components such as walls, roofs, fascia, and gutters, ensuring accurate representation of building elements.
5. **To Introduce Building Information Modelling (BIM):** To Build awareness of BIM concepts, workflows, and terminologies, while highlighting its importance in modern construction and interdisciplinary collaboration.
6. **To Integrate Structural and Architectural Elements:** To Train participants in understanding and applying tools from the Structure tab for comprehensive project design and coordination.
7. **To Encourage Interactive Learning:** To Provide opportunities for participants to engage in Q&A sessions, live demonstrations, and practice-based exercises to strengthen their technical expertise.
8. **To Bridge Academia and Industry Needs:** To Prepare students for future professional roles by equipping them with industry-relevant skills in Autodesk Revit, enhancing their employability and technical competence.

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Program Schedule:

DATE	EVENT	TIME
21.08.2025 (Thursday) Day 1	Welcome Address	11:40 AM to 11:45 AM
	Inaugural Speech	11:45 AM to 11:50 AM
	Session 1: Introduction to Autodesk Revit Architecture, Revit File Type Understanding Project, Project Templates, Families	11:50 AM to 1:30 PM
	Lunch Break	1:30 PM to 2:30 PM
	Session 2: GUI: Exploring Recent Files, Understanding Primary user Interface Exploring Application Menu, Quick access	2:30 PM to 4:00 PM
14.05.2025 (Friday) Day 2	Session 3: Construction Modeling Tools Understanding Parts, Divide Parts, Dividing Parts, create a Building Plan, and adding Column	11:40 AM to 1:30 PM
	Lunch Break	1:30 PM to 2:30 PM
	Session 4: Components : Placing Components, Working with Modern Medium Library , Roof: Adding Roof by Footprint, Adding Roof by Extrusion, Adding Sloped Glazing and Editing Roof, Roof Fascia, Roof Gutter	2:30 PM to 4:00 PM
15.05.2025 (Saturday) Day 3	Session 5: Introduction: About BIM, & Revit Terminologies, Live Demonstration - Exploring Revit and its user interface	11:40 AM to 1:30 PM
	Lunch Break	1:30 PM to 2:30 PM
	Session 6: Understanding Structural and Architectural Elements in the Structure tab	2:30 PM to 3:30 PM
	Q&A Session	3:30 PM to 4:00 PM
	Valedictory Session	4:00 PM to 4:30 PM

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Organizing Committee:

Dr. Subhankar Ghosh, Dean (Academics)	Chairperson
Ms. Labani Nandi, HOD	Organizing Secretary
Mr. Rahul Das, Assitant Professor	Convenor
Mr. Subhadeep Mondal, Assitant Professor	Coordinator
Mr. Chinmay Majumder, Sr. Technical Assistant	Co- Coordinator

Resource Person: Mr. Rajib Sen, Manager, SidB Learning Solutions Pvt Ltd and Mr. Maidul Islam, Sr. Faculty, SidB Learning Solutions Pvt Ltd

Mr. Rajib Sen, Manager at SidB Learning Solutions Pvt. Ltd., is an experienced professional in the field of architectural design and Building Information Modeling (BIM). With a strong background in managing training programs and industry projects, he has played a pivotal role in bridging the gap between academic learning and practical applications. His managerial experience, combined with in-depth knowledge of Autodesk Revit and related technologies, has enabled him to guide students effectively on how BIM tools are transforming modern construction and architectural practices. During the workshop, he shared valuable insights into project management workflows and introduced participants to practical applications of Revit in real-world scenarios.

Mr. Maidul Islam, Senior Faculty at SidB Learning Solutions Pvt. Ltd., is a highly skilled trainer with extensive teaching and industry experience in Autodesk Revit and BIM technologies. He has been actively engaged in training students and professionals on architectural design, structural modeling, and advanced construction tools. His expertise lies in simplifying complex concepts for learners and providing hands-on demonstrations that strengthen both conceptual understanding and technical skills. In this workshop, he conducted interactive sessions on construction modeling tools, roof modeling, and structural-architectural integration, ensuring that participants gained practical exposure alongside theoretical knowledge.

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Together, Mr. Rajib Sen and Mr. Maidul Islam ensured the workshop was not only informative but also highly interactive and skill-oriented, equipping participants with the essential tools and confidence to work with Autodesk Revit in academic and professional domains.

Proceedings:

The three-day workshop on Autodesk Revit Architecture was conducted under the guidance of the resource persons Mr. Rajib Sen and Mr. Maidul Islam. The sessions were designed to introduce participants to the fundamentals of Revit, explore advanced tools, and provide hands-on practice in architectural and structural modeling.

Day 1:

The First day of the program began with a welcome address by the Convenor, followed by an inaugural speech by Organizing Secretary highlighting the importance of Building Information Modeling (BIM) in modern architectural practices.

Session 1: Introduction to Autodesk Revit Architecture: The first technical session began with an introduction to Autodesk Revit Architecture. The resource persons explained different Revit file types, their applications, and the concept of project templates. Participants also gained insights into families, the core components of Revit, and how they form the building blocks of projects.

Session 2: Graphical User Interface (GUI) Exploration: The second session focused on exploring the Revit GUI. Mr. Rajib Sen guided participants through the Recent Files panel, the primary user interface, Application Menu, and Quick Access Toolbar. This session gave participants a strong foundation to navigate the software with ease.

Day 2:

The second day began with a detailed exploration of components and roof modelling. Participants practiced placing components, working with the modern medium library, and creating roofs by different methods such

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as footprint, extrusion, and sloped glazing. Editing roof elements, as well as adding fascia and gutters, were also demonstrated, providing practical experience in architectural detailing. Post-lunch, the sessions shifted focus to **Building Information Modeling (BIM)** and its relevance in construction projects. Participants were introduced to important **Revit terminologies**, followed by a **live demonstration** of Revit and its user interface. The resource persons highlighted how BIM integrates different disciplines in a single platform, making the session both theoretical and practical.

Session 3: Construction Modeling Tools: The third session introduced construction modeling tools. Participants learned how to create and divide parts, and then practiced developing a building plan. They also gained experience in adding columns, strengthening their ability to model structural components in Revit.

Session 4: Components and Roof Modeling: The fourth session covered placing components and working with the Modern Medium Library. Mr. Maidul Islam demonstrated various methods for roof creation, such as by footprint, extrusion, and sloped glazing. Editing roofs and adding roof fascia and gutters were also practiced, allowing participants to model realistic architectural features.

Day 3:

The third and final day of the workshop was devoted to exploring **structural and architectural elements** using the Structure tab in Revit. The session demonstrated workflows for integrating architectural and structural components, giving participants hands-on experience in multidisciplinary coordination.

Session 5: BIM Concepts and Revit Terminologies: The fifth session introduced participants to Building Information Modeling (BIM) and essential Revit terminologies. A live demonstration of the Revit interface was conducted, where participants explored its functionalities more deeply and understood the integration of BIM in real-world projects.

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Session 6: Structural and Architectural Elements: The sixth session emphasized structural and architectural elements in the Structure tab. Participants explored tools and workflows for integrating structural designs with architectural models, thereby gaining insights into the collaborative aspects of Revit.

This was followed by an interactive Q&A session, where participants clarified doubts, discussed challenges faced during practice, and sought professional advice from the resource persons. The session was highly engaging, enabling participants to connect theory with practical applications.

The workshop concluded with a valedictory session, where the organizers and participants expressed gratitude to the resource persons Mr. Rajib Sen and Mr. Maidul Islam for their insightful sessions. Feedback from participants highlighted the usefulness of the workshop in strengthening both conceptual understanding and technical skills in Autodesk Revit Architecture. Certificates of participation were distributed, and the workshop ended on a note of encouragement for continued practice and learning. The workshop ended with encouraging remarks, motivating participants to continue exploring Revit and applying BIM concepts in future academic and professional endeavors.

Outcome:

The workshop witnessed robust participation with 37 students and 10 faculty members. The 3-Day Skill Development Workshop on Autodesk Revit, organized by the Department of Civil Engineering, proved to be highly beneficial for the participants. By the end of the sessions, students developed both conceptual understanding and practical skills in using Autodesk Revit as a tool for Building Information Modeling (BIM).

Participants gained hands-on experience in navigating the Revit interface, working with file types, templates, and families, as well as developing building plans with structural and architectural components. They successfully learned how to create and edit parts, place components, and model roofs using various methods such as footprint, extrusion, and sloped glazing. The introduction to BIM concepts and Revit terminologies enhanced their awareness of how digital workflows improve collaboration and efficiency in the construction industry.

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Students also acquired skills in integrating structural and architectural elements, understanding how different disciplines interact in a single BIM environment. The live demonstrations, practical exercises, and interactive Q&A sessions enabled participants to clarify doubts, strengthen problem-solving skills, and connect classroom learning with professional applications.

Overall, the workshop significantly improved the technical competence of the participants, preparing them to use Autodesk Revit effectively for academic projects, internships, and future professional roles. It also boosted their confidence in adopting modern digital tools, thereby enhancing their industry readiness and employability.

Conclusion:

The **3-Day Skill Development Workshop on Autodesk Revit**, organized by the Department of Civil Engineering, concluded on a highly successful note. Over the three days, participants were introduced to the fundamentals of Revit, explored its advanced features, and engaged in live demonstrations and hands-on practice sessions. The workshop effectively bridged the gap between theoretical classroom knowledge and practical industry applications, equipping students with the skills to work confidently in a Building Information Modeling (BIM) environment.

The contributions of the resource persons, Mr. Rajib Sen (Manager, SidB Learning Solutions Pvt. Ltd.) and Mr. Maidul Islam (Senior Faculty, SidB Learning Solutions Pvt. Ltd.), were instrumental in making the sessions engaging, informative, and interactive. Their expertise and guidance provided participants with not only software skills but also professional insights into how BIM and Revit are revolutionizing the construction industry. The workshop thus fulfilled its objective of preparing students to face the demands of the AEC (Architecture, Engineering, and Construction) sector with enhanced digital competency.

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Feedback:

The feedback from participants was overwhelmingly positive. Students appreciated the structured, step-by-step approach of the sessions, which made it easier for them to grasp both basic and advanced concepts of Autodesk Revit. They found the hands-on practice highly valuable in building confidence to use the software independently. The interactive **Q&A sessions** helped clear doubts and encouraged active participation.

Many participants highlighted that the workshop provided them with **industry-relevant skills** not commonly covered in regular academic coursework. They also expressed gratitude to the Department of Civil Engineering for organizing such a skill-oriented program and recommended that similar workshops be conducted regularly to keep pace with evolving industry technologies.

Overall, the workshop was well-received and left a lasting impact by enhancing the participants' technical knowledge, practical skills, and career readiness.

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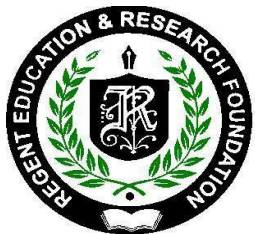
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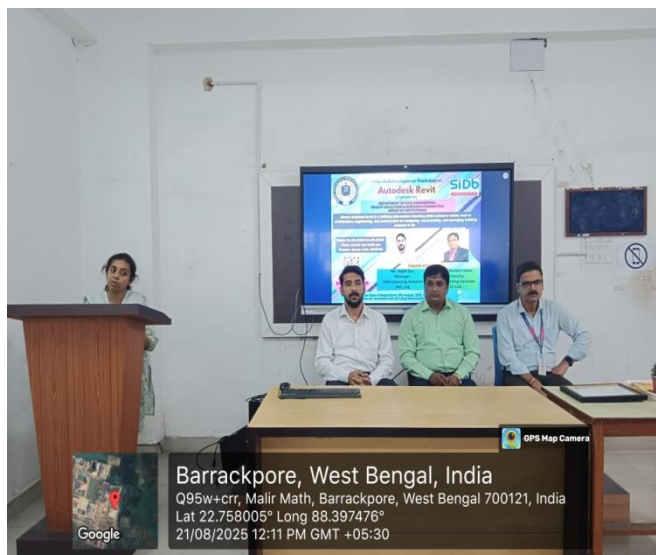


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Event Photos:

Day 1:



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Day 2:



Day 3:



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Flyer



3-Day Skill Development Workshop on
Autodesk Revit
Organized by
DEPARTMENT OF CIVIL ENGINEERING,
REGENT EDUCATION & RESEARCH FOUNDATION
GROUP OF INSTITUTIONS



About: Autodesk Revit is a Building Information Modeling (BIM) software widely used in architecture, engineering, and construction for designing, documenting, and managing building projects in 3D.

Date: 21.08.2025-23.08.2025
Time :11:00 am-4:00 pm
Venue- Room 316, RERF-GI



Registration Link:
<https://forms.gle/MDvhFeJAfz6bHXkr7>


Course Instructor:
Mr. Rajib Das,
Manager,
SiDb Learning Solution
Pvt. Ltd.


Mr. Sk Maidul Islam,
Sr. Faculty,
SiDb Learning Solution
Pvt. Ltd.

Last Date of Registration; 19th August, 2025, 4.00 pm
E - certificates will be shared with all 3 days attend participants over e-mail

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Certificate



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Certificate of Participation

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Tanmoy Bose

for participating in “3-Day Skill Development Workshop on Autodesk Revit”
organized by Civil Engineering Department, Regent Education & Research
Foundation Group of Institutions from 21.08.2025-23.08.2025.

Ms. Labani Nandi
HOD, CE, RERF



Dr. Subhankar Ghosh
Dean (Academics), RERF

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