**20CE31SC–REVIT ARCHITECTURE**

**(Civil Engineering)**

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| **Course Category** | Skill oriented course | **Credits** | 2 |
| **Course Type** | Practical | **Lecture – Tutorial –Practical** | 0-0-4 |
| **Prerequisite** | None | **Sessional Evaluation**  | 40 |
| **Semester End Exam. Evaluation** | 60 |
| **Total Marks** | 100 |

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| **Course Outcomes** | CO1 | Know edit tools, modify tools and site elements. |
| CO2 | Use materials, section sets and can manage family categories.  |
| CO3 | Structure, manage sheets and design options. |
| CO4 | Check the model for interfaces |
| CO5 | Transfer project standards and edit object style. |
| CO6 | Apply render and massing tools |
| **Course Content** | **List of Experiments**1. Creating the Walls
2. Creating the Curtain elements
3. Working with Elevation and Section Views
4. Placing of Dimensions, Doors, Windows and Components
5. Creating the Roofs and ceilings
6. Creating the Floors
7. Creating the Architectural columns
8. Placing of Railings, Rams and Stair by components
9. Creating the Openings
10. Giving Annotation, sheets, model text and Model lines
11. Exploring Walkthrough Tools & Import & Exporting Files, Camera
12. Rendering, Massing & site Tools
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| **Textbooks****and Reference books** | **REFERENCES:**<https://bimscape.com/beginners-guide-to-revit-architecture/><https://www.youtube.com/c/CADinblack> |

**CO-PO Mapping:**3-High Mapping, 2-Moderate Mapping, 1-Low Mapping, - -Not Mapping

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|   | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** | **PSO1** | **PSO2** | **PSO3** |
| **CO1** | 3 | 1 | 3 | 1 | 3 | 1 | - | 1 | 2 | 3 | 3 | 3 | 3 | - | 2 |
| **CO2** | 2 | 1 | 3 | 1 | 3 | 1 | - | 1 | 2 | 3 | 3 | 3 | 3 | - | 2 |
| **CO3** | 3 | 1 | 3 | 1 | 3 | 1 | - | 1 | 2 | 3 | 3 | 3 | 3 | - | 2 |
| **CO4** | 3 | 1 | 3 | 1 | 3 | 1 | - | 1 | 2 | 3 | 3 | 3 | 3 | - | 2 |
| **CO5** | 2 | 1 | 3 | 1 | 3 | 1 | - | 1 | 2 | 3 | 3 | 3 | 3 | - | 2 |
| **CO6** | 1 | 1 | 3 | 1 | 3 | 1 | - | 1 | 2 | 3 | 3 | 3 | 2 | - | 1 |