

### Lesson Plan & Work-done Diary for AY: 2026-27, ODD Semester

| Course with Code: Building CAD and 3D Modelling Lab– 1BCVL306 |                      |                                                                                                                                                                             |             |           |                            | Faculty Name: Likhith M L | Semester: 3 <sup>rd</sup> |                          |
|---------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|----------------------------|---------------------------|---------------------------|--------------------------|
| Class No.                                                     | Date planned (DD/MM) | Topics to be covered                                                                                                                                                        | TLP Planned | Class No. | Date of Conduction (DD/MM) | Topics Covered            | TLP Executed              | Remarks if any deviation |
| <b>Part - A</b>                                               |                      |                                                                                                                                                                             |             |           |                            |                           |                           |                          |
| 1                                                             |                      | CAD basics: Interface setup, units (metric), limits, layers (walls, doors, dimensions), OSNAPs, modify commands; draw simple room shapes, annotate.                         | PPT         |           |                            |                           |                           |                          |
| 2                                                             |                      | Residential plan: Detailed plan with rooms, doors/windows (standard sizes: doors 900x2100mm, windows 1200x1200mm), furniture blocks, dimensions 1:100 scale.                | PPT         |           |                            |                           |                           |                          |
| 3                                                             |                      | Residential elevation/section: Matching elevation, cross-section with hatching (walls 230mm brick, slab 150mm), stairs, roof.                                               | PPT         |           |                            |                           |                           |                          |
| 4                                                             |                      | School building plan: Ground +1 floor plan (classrooms 7x8m, staff room, hall 20x10m, toilets, corridors), doors/windows, ramps for accessibility, grid lines, 1:100 scale. | PPT         |           |                            |                           |                           |                          |
| 5                                                             |                      | School elevation/sections: Front/side elevations, longitudinal section showing plinth (750mm), parapet, solar panels; hatches for materials.                                | PPT         |           |                            |                           |                           |                          |
| 6                                                             |                      | Office building plan: G+2 commercial office (reception, cabins 4x4m, open workstations, conference 10x6m, parking layout), lifts, services ducts, 1:100.                    | PPT         |           |                            |                           |                           |                          |
| 7                                                             |                      | Office elevations/sections: Multi-level elevations, sections with column grids (6x6m bay), beam details, glazing.                                                           | PPT         |           |                            |                           |                           |                          |

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| <b>Part - B</b>                                                      |                      |                                                                                                                                                                    |             |           |                            |                                 |                                 |                          |
| 8                                                                    |                      | Primary health center (PHC) plan: OPD rooms, waiting area, lab, pharmacy, wards (4 beds), admin, generator backup, circulation for patients, 1:100 scale.          | PPT         |           |                            |                                 |                                 |                          |
| 9                                                                    |                      | PHC elevations/sections: Elevations with ramps (1:12), sections showing ventilation, septic tank stub, green features.                                             | PPT         |           |                            |                                 |                                 |                          |
| 10                                                                   |                      | Complete working drawings (plan, 2 elevations, 2 sections) for school/office/PHC variant; advanced layers, dynamic blocks, title block with BOM.                   | PPT         |           |                            |                                 |                                 |                          |
| 11                                                                   |                      | 3D modeling: Extrude school/office/PHC plans to full model (floors, roof, doors/windows), UCS views, section planes, basic materials/rendering (Revit/AutoCAD 3D). | PPT         |           |                            |                                 |                                 |                          |
| 12                                                                   |                      | Collaborative set: XREF plans/elevations/3D from peers, assemble layout sheets, plot PDFs; BIM export intro (IFC format).                                          | PPT         |           |                            |                                 |                                 |                          |
| 13                                                                   |                      | Quantity takeoff: Area/volume from 3D model (floors, walls), Excel link; sustainability check (green area >20%)                                                    | PPT         |           |                            |                                 |                                 |                          |

|                    | Activity                                         | Planned | Actual             | Remarks |
|--------------------|--------------------------------------------------|---------|--------------------|---------|
| 1                  | Theory Classes                                   |         |                    |         |
| 2                  | Assignments/ Quizzes/<br>Self-study              |         |                    |         |
| 3                  | Tutorials/ Extra classes                         | -       | -                  |         |
| 4                  | Internal Assessments                             | 2       |                    |         |
| 5                  | ICT based Teaching<br>(% of usage in Curriculum) | 13      |                    |         |
| <b>Planning</b>    |                                                  |         | <b>Execution</b>   |         |
| Faculty Signature: |                                                  |         | Faculty Signature: |         |
| HoD Signature:     |                                                  |         | HoD Signature:     |         |