

CAD-Survey Room – Detailed Program Schedule

Course Structure:

- Session Duration: 40 minutes per day
- Total Duration: 4 Weeks
- Module 1: 1 Week
- Module 2: 1 Week
- Module 3: 2 Weeks

Module 1: Introduction & Orientation (Week 1)

Day 1: Course Orientation & Overview of Land Surveying (40 minutes)

Day 2: Fundamentals of Surveying – Concepts & Principles (40 minutes)

Day 3: Survey Types, Tools & Field Practices (40 minutes)

Day 4: Introduction to AutoCAD – Interface & Setup (40 minutes)

Day 5: Basic Drawing Tools & Survey Drafting Concepts (40 minutes)

Module 2: Drafting & Field Data Processing (Week 2)

Day 1: Drafting Essentials in AutoCAD – Layers, Lines & Accuracy (40 minutes)

Day 2: Plotting Survey Data in AutoCAD – Coordinates & Bearings (40 minutes)

Day 3: Parcel Retracement – Boundary Interpretation & Corrections (40 minutes)

Day 4: Topographic Mapping – Contours, Elevations & Symbols (40 minutes)

Day 5: Practical Topographic & Contour Drafting Exercise (40 minutes)

Module 3: Advanced Mapping & Professional Practice (Weeks 3 & 4)

Week 3

Day 1: Reproduction of Survey Plans & Drafting Standards (40 minutes)

Day 2: Scaling Techniques & Accuracy Control (40 minutes)

Day 3: Georeferencing – Concepts & Practical Workflow (40 minutes)

Day 4: Subdivision & Layout Design Principles (40 minutes)

Day 5: Composite Plan Preparation (40 minutes)

Week 4

Day 1: Key Plan Development & Professional Presentation (40 minutes)

Day 2: Conducting Accurate Surveys Using Smartphones (40 minutes)

Day 3: Field-to-Office Data Validation Workflow (40 minutes)

Day 4: Professional Collaboration, Ethics & Client Communication (40 minutes)

Day 5: Final Review, Q&A & Career Guidance Session (40 minutes)