iBwave Public Safety
COURSE SYLLABUS
BUILDING MODELING, NETWORK DESIGN & SIMULATION, REPORTING

Note: Course syllabus is subject to change

INTRODUCTION TO iBWAVE PUBLIC SAFETY
- ✔ Overview of Public Safety concepts
- ✔ In-building design challenges for public safety
- ✔ iBwave Public Safety features and benefits
- ✔ iBwave Public Safety workspace

CREATING PROJECTS
- ✔ How to start a project
- ✔ Key project properties

BUILDING MODELING
- ✔ Set up page layouts
- ✔ Create, import, scale, and duplicate floor plans
- ✔ Set reference point
- ✔ Set up building configuration
- ✔ Import walls
- ✔ Draw and edit walls
- ✔ Set up horizontal surfaces
- ✔ Set up inclined surfaces
- ✔ View a project in 3D

NETWORK DESIGN FOR PUBLIC SAFETY
- ✔ Components used in iBwave Public Safety
  - o Components DB Editor
  - o Types of Components
- ✔ Designing DAS
  - o Types of DAS
  - o Add systems
  - o Add and connect components on design and floor plans
  - o Assign components to floor plans
  - o Change floor or component heights
  - o Designing for Multiple Floors/Buildings
- ✔ Calculations
  - o Settings in Project Properties
  - o Basic coverage view with antenna contours
  - o Donor Antenna Isolation
- ✔ Useful tools
  - o Design plan
  - o Display siblings
  - o Debug message list
  - o Adjust labels
- ✔ Options & Settings
  - o Project properties: error/warnings, calculations, preferences
  - o Tools
  - o Options and default settings

REPORTS
- ✔ Preparing for reports
- ✔ Report types
- ✔ Generating reports

PROPAGATION
- ✔ Propagation models
- ✔ Prediction areas
- ✔ Compliance areas
- ✔ Output map settings and properties
- ✔ Output map report

DATA COLLECTION & INTERFERENCE
- ✔ Importing survey data (macro)
- ✔ Interpolation from macro inside building
- ✔ Dominance over macro

OPTIMIZATION
- ✔ Optimization Output Maps: Interpolation Signal Strength, SNIR, MADR and Uplink maps

DESIGN FROM SCRATCH WORKSHOP
- ✔ Create a project from scratch to practice the fundamental features covered in the course

FINAL EXAM
3 hours