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**Abstract:**

**Tools for Radio planning and Implementation in a Wireless Network.**

**Lecture Time: 1 hour**

Engineers are faced with the task of planning, designing and rolling out radio networks in rural and urban areas. This paper will highlight some steps that can help the network engineers in the planning process:

- (a) Conduct a feasibility study research in the area
- (b) Traffic analysis
- (c) Choosing the right technology
- (d) Design and dimensioning the network
- (e) Network simulation with software tools
- (f) Business modelling with software tools for economic viability (ARPU, ROI, sensitivity analysis etc)

The paper will emphasize each of the above areas during the seminar with software demonstration.