Mobile Communications (ELC446)



Topics in Part I

(with Prof. Heba Mourad)

- Introduction to cellular Systems
- GSM architecture and services
- Cell Coverage
- Co-channel interference and Adjacent channel interference
- GSM:
 - Radio Interface
 - *Radio resources
- Migration to higher mobile generations

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Topics in Part I

(with Prof. Heba Mourad)

Reports: (LTE Advanced)

- 1- Propagation models
- 2- Architecture
- 3- Types of Interference and techniques to combat them
- 4- Radio Interface
- 5- Radio resources

Presentation:

A recent mobile generation

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Topics in Part II

(with Dr Mai Kafafy)

- Multi-path Propagation
- Multi-path diversity
- Channel Equalization
- Channel Coding

*Three assignments that require Matlab simulations and problem solving

