Mobile Communications (GEVAU221M-a)

1. An overview of the development of mobile communications systems.
2. Transmission lines and antennas
3. Essentials of Radio Wave Propagation
4. Fundamentals of cellular communications
5. The concept of multiple accesses (FDMA, TDMA, CDMA)
6. Modulation and channel coding procedures.
7. GSM system (architecture,radio interface, localization and calling, handover)
8. GSM system (ciphering, frame analysis).
9. GPRS and EDGE systems.
10. 3G cellular systems (UMTS/IMT-2000).
11. Overview of 4-G systems
12. Midterm
13. WLAN, Bluetooth, UWB, 802.11 Basics.

Requirements: signature, exam

Miskolc, 20 September 2017

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