

Course title: LTE/LTE-A Basics
Institute/Division: F-5, Institute of Teleinformatics
Course code: F50-02
Erasmus subject code: Telecommunication, Computer Science
Number of contact hours: 45 hours
Course duration: 1 semester
ECTS credits: 6
Course description:

Introduction to LTE, History, What is LTE/LTE-Advanced, Network Architecture, Microwaves and radio propagation, Modulation basics, Orthogonal Frequency Multiple Access (OFDMA), Single Carrier Frequency Division Multiple Access (SC-FDMA), Introduction to air interface, RF Basics, LTE Measurements, Air interface layer 1 and 2 protocols, Control plane and user plane, Basic operations, Attach and handover (soft vs hard), Quality of Service (QoS)

Literature:

Course type: Lectures and seminars
Assessment method: Attendance, ability of solving of simple exercises, exam
Prerequisites: Basics of Computer Networks
Primary target group: 3-rd – 4-th year computer science students
Lecturer: Jerzy R. Jaworowski, PhD
Contact person: Jerzy R. Jaworowski, PhD, jrj@pk.edu.pl
Deadline for application: 15th of September
Remarks: