**MOBILE AND WIRELESS COMMUNICATIONS SYSTEMS** (ΠΛ0841) - TM

Coordinator: Psannis Konstantinos Semester: 6 th (Spring) |

Course type: Compulsory TM | Weekly hours: 3 | ECTS: 5

Instructors: Psannis Konstantinos

General competences

Course content Mobile and personal communications, Wireless mobile and personal communication systems, Design issues, Impact of mobility on communication networks, 3G and 4G mobile communication systems. The wireless environment in mobile communications, Radio Propagation and Propagation Path-Loss Models An Overview of Digital Communication and Transmission, Fundamentals of Cellular Communications, Multiple Access Techniques, Modulation Schemes, Antennas, Diversity, and Link Analysis, Spread Spectrum (SS) and CDMA Systems, Tele-traffic Engineering, Mobility management, Location management, Location update, Methods for mobile terminal positioning. Algorithms for mobile and wireless Communications Systems and their Applications, Security management, managerial and regulatory issues.

Assessment Written final examination / Assignment/lab tests Course bibliography (One of the following): 18548787 Δίκτυα κινητών και προσωπικών επικοινωνιών, Τύπος: Σύγγραμμα, Θεολόγου Μ., 2010, ΤΖΙΟΛΑ, ISBN: 978-960-418-278-7

Additional material ebooks, papers, Demonstrations, Virtual Labs , Experiments (http://compus.uom.gr)