Code	**ECE 512**
Name	**Wireless Sensor Networks**
Hour per week	3 (3 + 0)
Credit	3
ECTS	10
Level/Year	Graduate
Semester	Spring
Type	Elective
Prerequisites	none
Content	

This course provides a comprehensive overview of wireless sensor networks and their real-world applications. The topics include wireless sensor network protocols, network architectures and management, error control techniques, optimal packet size design, cross-layer communication protocol solutions, localization algorithms, ZigBee, IEEE 802.15.4, 6LowPAN, underwater and underground sensor networks, wireless sensor and actor networks, and wireless multimedia sensor networks. After completing the course, students will get an advanced understanding about the wireless sensor networks and related problem solving discipline using mathematics / engineering principles.