

OCIECE: ELG7178B Topics in Communications II (3 l.p.w.t. - 3 cr.)
OCICS: CSI5148 COMP5103 (S,T)

Wireless Ad Hoc Networking

Fall 2011 **Monday 17:30-20:30 MCD 120**

Instructor: Ivan Stojmenovic

Approximate organization of lectures

Sep. 12: Introduction; Routing in sensor and ad hoc networks

Sep. 19: Broadcasting in ad hoc networks

Sep. 26: Sensor coordination: area and communication coverage;

 Data dissemination in vehicular ad hoc networks

Oct. 3: Project presentations (approx. 5-10' per student)

Oct. 10: Thanksgiving (no class)

Oct. 17: Quiz 1 (**SR**)

Oct. 24: study break, no class

Oct. 31: Vehicular cloud (Fan Zhang); Routing in VANET (Sameera Siddiqui);
Transport layer (Francis Breeson);

Nov 7: Data gathering/aggregation (Dave McKenney); Medium access (Swapna
Muthineni); Sensor placement (Anvesh Aluwala)

Nov 14: Security sensor (Sasikiran Vepanjeri); Operating systems (Hirdepal Hunjan);
Security in ad hoc (Nisita Tappata); (**SR**)

Nov 21: Middleware for sensors (Salma Ahmed); Robot networks (Patrick Zeller); Sink
mobility (Ashraf Jallad);

Nov 28: Path exposure (Joshua Tom-Jack); Routing with physical layer (Okudaye Alice)
Cognitive radio networks (Nipun Nanda)

Dec 5: Secure routing in VANET (Antonio Prado); Fault tolerance (Balaaji); Key
management (Emran Mazumdar) (**SR**)

Dec 7 (Wednesday). Quiz 2 (**SR**)