

UNIVERSIDADE ESTADUAL DE MARINGÁ
CENTRO DE TECNOLOGIA
DEPARTAMENTO DE INFORMÁTICA
PROGRAMA DE PÓS-GRADUAÇÃO EM CIÊNCIA DA COMPUTAÇÃO

PROGRAMA DE DISCIPLINA

Disciplina: Topics in Computer Systems

Código: DIN4076

Carga Horária: 30

Ano Letivo: 2017

Curso: Master Degree in Computer Science

1. EMENTA

Course with a variable program to introduce new concepts aiming to contemplate subjects to consolidate the research area.

2. OBJETIVOS

This course covers the fundamentals principles of wireless networks, and is intended for graduate students interested in this area. The students taking this course will be exposed to open research problems in the field of wireless networking and might position themselves to do research in this area.

3. PROGRAMA

1. History and overview of wireless communication networks and protocols.
2. Introduction to physical layer fundamentals.
3. Radio propagation models.
4. Multiple access control protocols and system throughput analysis.
5. Multi-hop wireless network routing.

4. BIBLIOGRAFIA

There is no required textbook for the course. Students will be provided a set of course notes. The following book is suggested as a reference: Wireless Communications, Andrea Goldsmith, Cambridge University Press.