

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

Disciplina: Topics in Computer Systems
Carga Horária: 30
Curso: Master Degree in Computer Science
Professor: Dr. Elvio João Leonardo

Código: DIN4076
Número de Créditos: 2

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.

5. CRITÉRIO DE AVALIAÇÃO

1ª nota periódica: A written test with score from 0 to 10 (weight 1);

2ª nota periódica: A theoretical project composed of the written text and an oral presentation, with score from 0 to 10 (weight 1).

Nota final: Arithmetic mean of the previous two scores.