

COURSE: ADVANCED TOPICS IN TELECOMMUNICATIONS

ASSIGNMENT 2018/2019

SCOPE

Select one or two of the following proposed topics:

- Modulations
- Signal design
- Detection
- Synchronization
- Estimation
- MAC
- Resource allocation
- Routing
- Security

For the selected topics:

1. Make a study, elaborating an adequate state of the art. If more than one topic is selected the connections between both topics should be underlined.
2. With the help of the teaching staff define, develop and study an application problem.
3. Prepare a written report including the motivation and background, the problem statement, the adopted solutions and its validation.

EVALUATION CRITERIA

The evaluation criteria will take into account:

- The degree of understanding of the topics addressed
- Complexity of the application problem and the features/performance of the solution
- Student autonomy
- Quality of the report and its discussion

TIMING

- The report should be delivered at least 3 days before the presentation seminar.
- The presentation seminar will take place in June.
- The presentation will include 40 min presentation and 20 min discussion.

Responsible professor: Rui Dinis
Other professors involved: Paulo Pinto, Luís Bernardo, Rodolfo Oliveira, Paulo Montezuma, Pedro Amaral