

145071 - Real time operating systems and middleware

Marco Peressutti
230403
marco.peressutti@studenti.unitn.it

November 26, 2021

Contents

1	Introduction to the course	2
2	Real-Time scheduling	3
3	Time Demand Analysis	4
4	Shared Resources	5
5	Dynamic Scheduling and real world's considerations	6
6	Aperiodic Servers and temporal isolation	7
7	EDF Scheduling in Linux	8
A	Markov Chains	9
	Bibliography	10

Chapter 1

Introduction to the course

Chapter 2

Real-Time scheduling

Chapter 3

Time Demand Analysis

Chapter 4

Shared Resources

Chapter 5

Dynamic Scheduling and real world's considerations

Chapter 6

Aperiodic Servers and temporal isolation

Chapter 7

EDF Scheduling in Linux

Appendix A

Markov Chains

Bibliography