

Wireless Networks

Dr. Sandra Wahid

Instructor

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Course Contents

- Basic Concepts of Wireless Communication
- Wireless Physical Layer
- Wireless Medium Access Control
- Power Management in Wireless MAC
- Wifi
- Routing in Wireless Networks
- Mobile Phone Networks (Presentations)

Learning Outcomes (LOs)

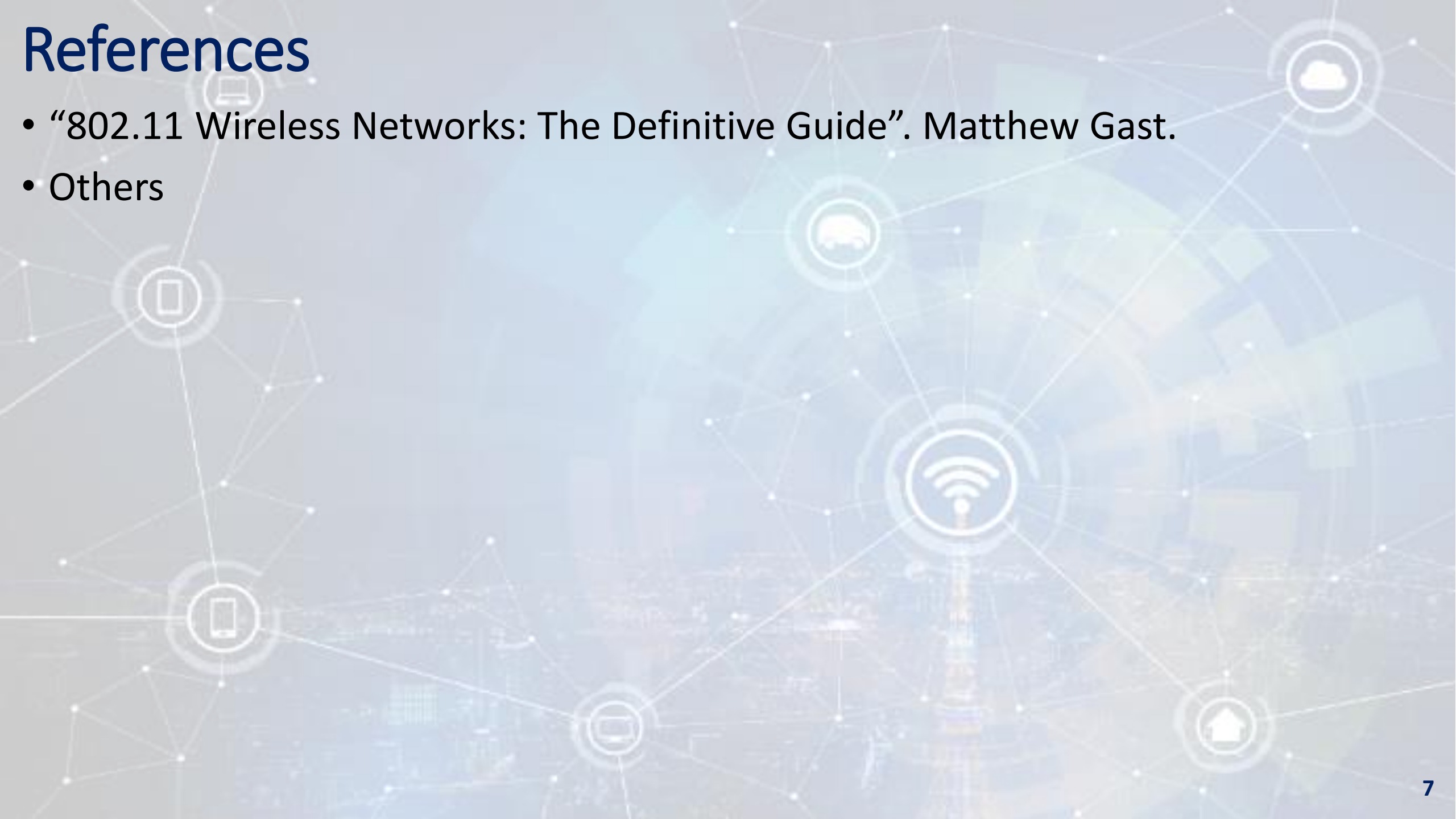
- Describe basic concepts of wireless communication. C1
- Discuss modulation techniques used in wireless physical layer. C1
- Demonstrate wireless medium access control. C5
- Illustrate the concepts of Wifi. C5.
- Apply routing in wireless networks. C2
- Practice research techniques. A5

Grades' Distribution

- Final Exam: **60** grades
- Midterm Exam: **10** grades
- Presentations: **15** grades
- Labs/Assignments: **10** grades
- Quiz: **5** grades
- Lecture's Bonus: up to **2** grades

Written Exams Policy

- **Closed-book Exams**



References

- “802.11 Wireless Networks: The Definitive Guide”. Matthew Gast.
- Others

Important Dates

- Week **4**: Tutorial Quiz
- Week **8**: Midterm Exam
- Weeks **13-15**: Presentations

Presentation Details

- Teams of **4-5** members such that the whole class is divided into no more than **20** groups.
- Presentation lasts only **10** minutes for each team.
- Presentation topics are about “**Mobile Phone Networks**” e.g.: **4G, 5G**, ...
- No prior submissions required.
- Prepare a professional organized **presentation file** (e.g.: pptx) that will be used during presentation.
- One slide must include the **references** and all the sources used.
- **Each team member** has to participate in the presentation.
- The presentations will take place during lectures of weeks 13 to 15, so it is the responsibility of the class to **agree together** on the presentations schedule (slots of 10 minutes) and send me the final schedule by maximum week 12.



Thank You