

Renewable Energy Resources (RER)

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Schedule

- Wednesday, 6:00-8:00 p.m.
- Remote, ZOOM platform
 - <https://videoconf-colibri.zoom.us/j/88003979074>
- Course materials
 - <https://fenix.tecnico.ulisboa.pt/disciplinas/RER2/2020-2021/1-semester>

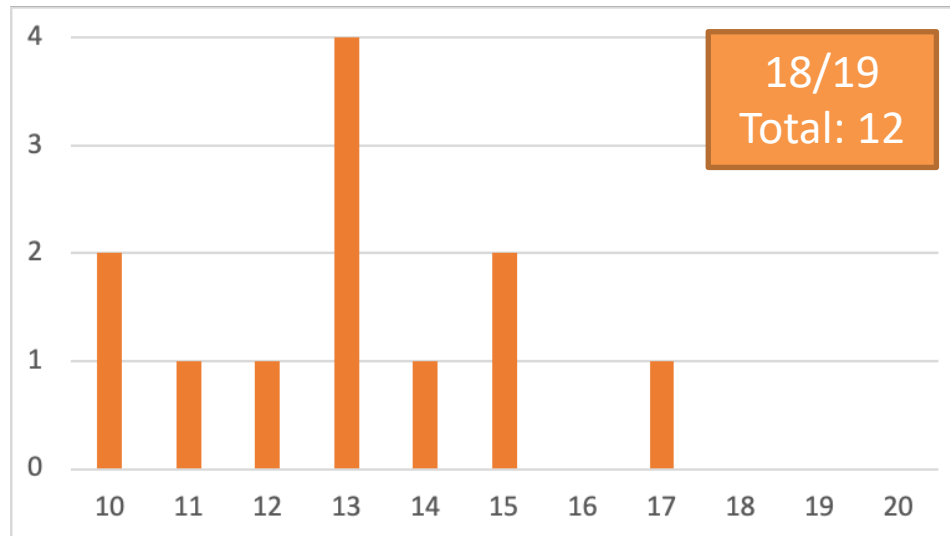
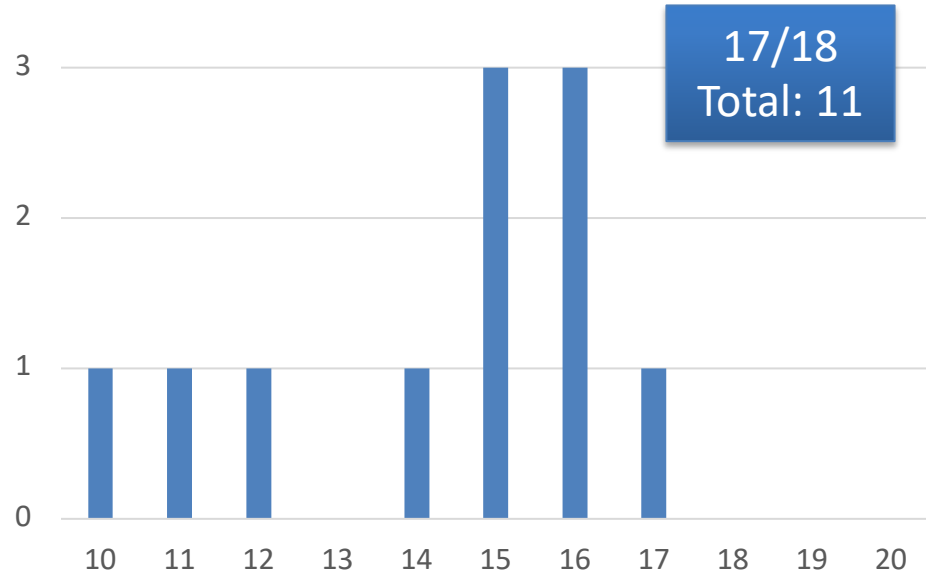
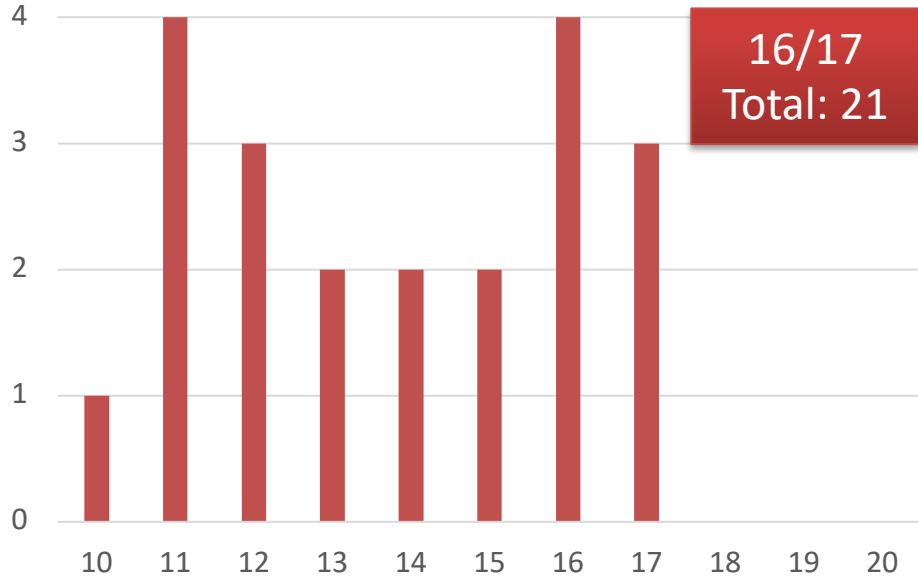
Contents

Week	Date	Topic
1	7/out/20	THE POWER SYSTEM
2	14/out/20	THE POWER SYSTEM
3	21/out/20	REVIEW ECONOMICS
4	28/out/20	WIND
5	4/nov/20	WIND
6	11/nov/20	WIND
7	18/nov/20	PV
8	25/nov/20	PV
9	2/dez/20	PV
10	9/dez/20	SMALL HYDRO
11	16/dez/20	DISCUSSION

Assessment

- 1 written exam (WE) w/ 2 chances + 1 group work (GW)
- Approval if:
 - $0.5 \text{ WE} + 0.5 \text{ GW} \geq 9.5$ and $\text{WE} \geq 8$
- Group Work
 - Objective: to compute an estimate for the annual energy produced by a RES
 - Deliverables: Report (Dec 2) and discussion (Dec 16)
 - Group members: 2

RER Grades Past Years



Main Bibliography



- Rui Castro, “UMA INTRODUÇÃO ÀS ENERGIAS RENOVÁVEIS: EÓLICA, FOTOVOLTAICA E MINIÍDRICA”, IST Press, 3ª Edição (in Portuguese)
- Rui Castro, “Renewable Energy Sources and Dispersed Power Generation”, Lecture notes
- Rui Castro, “AC Electrical Circuits for non-Electrical Engineers”, Lecture notes

Other Bibliography

- G. Boyle (ed.). Renewable Energy. 3rd edition. Oxford University Press. 2012.
- J. Twidell, T. Weir. Renewable Energy Resources. 2nd edition. Taylor & Francis. 2006.
- B. Sorensen. Renewable Energy. 4th edition. Academic Press. 2010.
- Aldo Vieira da Rosa. Fundamentals of Renewable Energy Processes. Third Edition. 2013.