All the activities of the semester will be organized:

* on Mondays, room BARB02, from 4:15 to 6:15 pm.
* on Fridays, room BARB02, from 2:00 to 4:00 pm.

Exceptions: - the project sessions will take place in the Marconi lab (Maxwell building)

- the two project evaluations will take place in room Lamarr (Maxwell building, second floor)

- there is no activity on Monday 19/09 (official start of the academic year)

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**Fri 22/9** Lecture 1: Mobile propagation channels 1: path-loss, shadowing, fading (CO)

**Mon 25/9** Project: introduction + guided session

**Fri 29/9** Lecture 2: Mobile propagation channels 2: time and frequency selectivity, M2M (CO)

**Mon 2/10** Exercise 1: Mobile propagation channels

**Fri 6/10** Lecture 3: Multiple access techniques + 3G standards (LV)

**Mon 9/10** Lecture 4: 3G standards (LV)

**Fri 13/10** Exercise 2: CDMA and spread spectrum techniques

**Mon 16/10** Project: guided session

**Fri 20/10** Lecture 5 – MIMO (CO)

**Mon 23/10** Exercise 3: MIMO channels

**Fri 27/10** Lecture 6 – MIMO (CO)

**Mon 6/11** Exercise 4: MIMO channels

**Fri 10/11** Lecture 7 – MIMO (CO)

**Mon 13/11** Project: guided session

**Fri 17/11** Lecture 8 – MIMO (LV)

**Mon 20/11** Lecture 9 – MIMO (LV)

**Fri 24/11** Project: mentoring session

**Mon 27/11** Lecture 10 – 4G and 5G channel models (CO)

**Fri 1/12** Lecture 11 - LTE, LTE-A and NR (LV) **+ Rdv TA**

**Mon 4/12** Lecture 12 – Massive MIMO and cell-free massive MIMO (LV)

**Fri 8/12** Lecture 13 – Future trends in wireless communications (LV or invited or ?)

**Mon 11/12** Exercise 5: Power control algorithms

**Fri 15/12** Project: mentoring session

**Mon 18/12** Project: mentoring session

**Fri 22/12** Project: Final presentation (mandatory**,** in room Lamarr, B.205, Maxwell building)