

The master program has a structure of 60 ECTS (24 of compulsory courses, 21 of elective courses and 15 corresponding to the Master Thesis)

The structure is as follows:

3 elective courses are intended to balance the background of the students (most likely those students graduated in Chemistry or Engineering).

- Mathematical methods for nanoscience
- Classical Electrodynamics
- Fundamentals of quantum mechanics

The core of the master program is composed by all the compulsory courses:

- Fundamentals of nanoscale characterization
- Experimental techniques I: structural characterization
- Experimental techniques II: spectroscopies
- Low dimensional systems and nanostructures
- Soft matter and nanostructured materials
- Nanostructural properties
- Modeling and molecular dynamics simulations at the nanoscale
- From nanoscience to nanotechnology

plus two elective courses:

- Nanoscience: a historical perspective
- Nanotechnology-oriented research activities: seminar series

Other 2 elective courses are intended to complement the knowledge in basic topics.

- Introduction to material science
- Fundamentals of solid-state physics

4 elective advanced courses will cover rather specific topics in different areas

- Advanced nano-scale characterization techniques (Advanced characterization of magnetic materials)
- Advanced theoretical methods in nanoscience
- Advanced topics in nanomaterials (nanophotonics)
- Dynamics of complex materials (Molecular motions in glass-forming systems)

Finally, there is an elective practical course:

- Introduction to scientific research

initial training on the research activities in direct connection with the topic of the selected master thesis work project.

MASTER IN NANOSCIENCE 16/17 COURSES' SCHEDULE

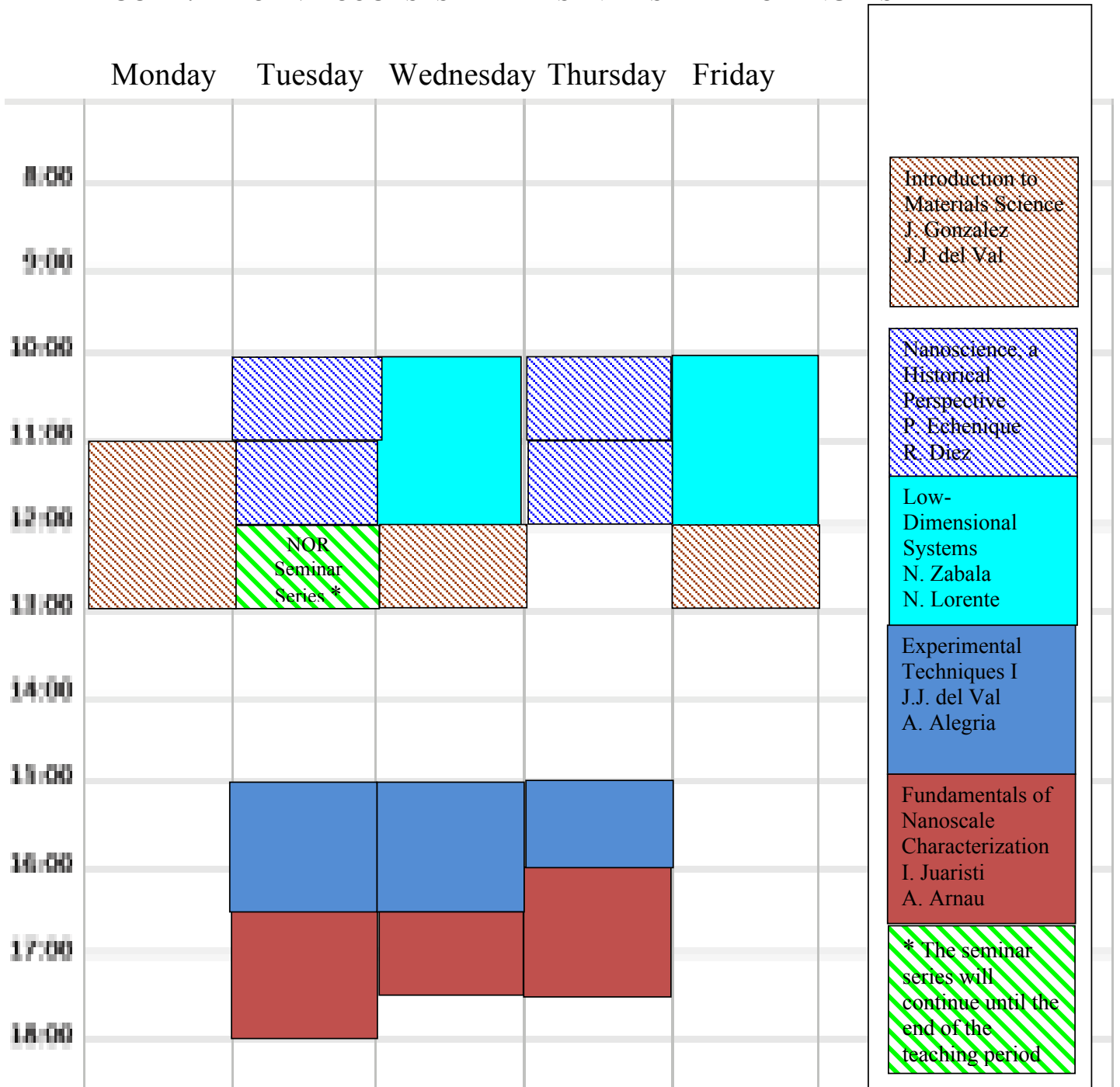
CODE: ELECTIVE COURSES APPEARS IN DASHED RECTANGLES

	Monday	Tuesday	Wednesday	Thursday	Friday
08:00					
09:00					
10:00	Fundamentals of Quantum Mechanics A. Arnau M. Alducin	Fundamentals of Quantum Mechanics A. Arnau M. Alducin	Fundamentals of Quantum Mechanics A. Arnau M. Alducin	Fundamentals of Quantum Mechanics A. Arnau M. Alducin	Fundamentals of Quantum Mechanics A. Arnau M. Alducin
11:00	Classical Electrodynamics I. Iuaristi A. Rivacoba	Classical Electrodynamics I. Iuaristi A. Rivacoba	Classical Electrodynamics I. Iuaristi A. Rivacoba	Classical Electrodynamics I. Iuaristi A. Rivacoba	Classical Electrodynamics I. Iuaristi A. Rivacoba
12:00					
13:00					
14:00					
15:00					
16:00	Mathematical Methods in Nanoscience V. Zhukova O. Chyzhyk	Mathematical Methods in Nanoscience V. Zhukova O. Chyzhyk	Mathematical Methods in Nanoscience V. Zhukova O. Chyzhyk	Mathematical Methods in Nanoscience V. Zhukova O. Chyzhyk	
17:00					
18:00					

FIRST PERIOD: 26 SEPTEMBER 2016- 21 OCTOBER 2016

MASTER IN NANOSCIENCE 16/17 COURSES' SCHEDULE

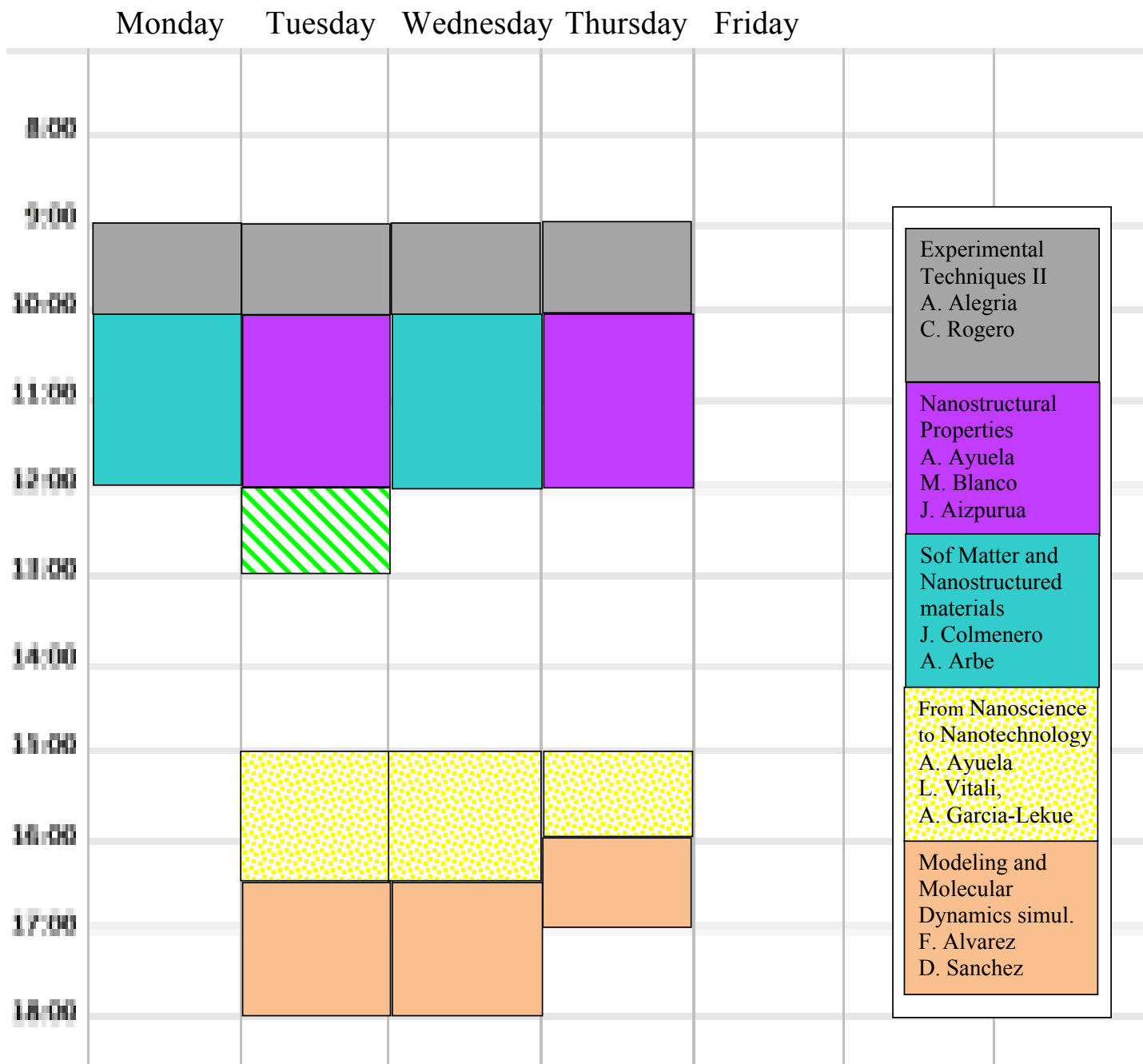
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SECOND PERIOD: 24 OCTOBER 2016- 21 DECEMBER 2016

MASTER IN NANOSCIENCE 16/17 COURSES' SCHEDULE

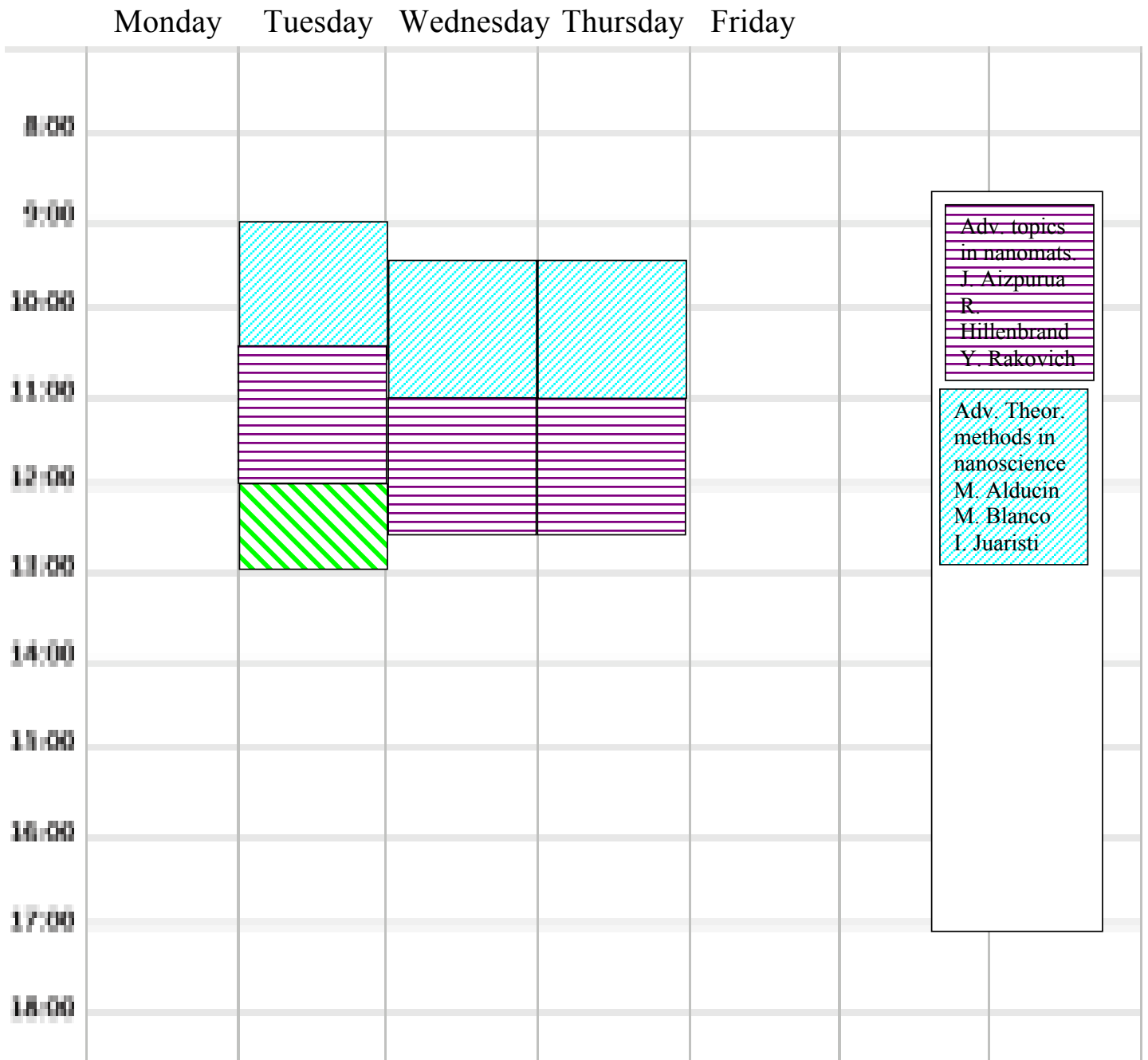
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THIRD PERIOD: 30 JANUARY 2017- 24 MARCH 2017

MASTER IN NANOSCIENCE 16/17 COURSES' SCHEDULE

CODE: ELECTIVE COURSES APPEARS IN DASHED RECTANGLES



FOURTH PERIOD: 24 APRIL 2017- 16 JUNE 2017