

## Year 1 Courses

Disciplines - **Blue: Physics**; **Yellow: Chemistry**; **Pink: Biology**; **Green: Basics**; **Bold: Mandatory**

| Place                                  | SEPT  | OCT   | NOV | DEC                      | JAN | FEB   | MAR | APR | MAY | JUN  |  |
|--|---|---|-----|--------------------------|-----|---|-----|-----|-----|--|--|
| C<br>A<br>C<br>H<br>A<br>N             | English (3)   |   |     |                          |     |   |     |     |     | S<br>U<br>M<br>M<br>E<br>R<br><br>S<br>C<br>H<br>O<br>O<br>L |  |
|  | French (3)  |   |     |                          |     |   |     |     |     |  |  |
|  | Basics<br>(3+3)   | Light-Matter interactions (3)                 |     |                          |     |   |     |     |     |  |  |
|  |   | Nanophotonics (5)                             |     |                          |     |   |     |     |     |  |  |
|  |   |   |     | Optics Practicals<br>(2) |     |   |     |     |     |  |  |
|  |   | Photonic Devices (5)                          |     |                          |     |   |     |     |     |  |  |
|  |   | Molecules and Interactions (5)                |     |                          |     |   |     |     |     |  |  |
|  |   | Microfluidics (4)                             |     |                          |     |   |     |     |     |  |  |
|  |   | Microwaves (5)                                |     |                          |     |   |     |     |     |  |  |
|  |   | Signal Processing (5)                         |     |                          |     |   |     |     |     |  |  |
| UPAD                                   |   | Spectroscopies (6)                            |     |                          |     |   |     |     |     |  |  |
|  |   | Neurosciences (6)                             |     |                          |     |   |     |     |     |  |  |
|  |   | Advanced optical methods for neuroscience (2) |     |                          |     |   |     |     |     |  |  |
| All partners                           | Interdisciplinary and Entrepreneurship modules<br>(Seminars, lab and companies visits, evening meetings...) |   |     |                          |     |   |     |     |     |  |  |
| University Complutense Madrid<br>(UCM) |   |   |     |                          |     | Spanish Courses(3)                              |     |     |     |  |  |
|  |   |   |     |                          |     | Nanomaterials (4)                               |     |     |     |  |  |
|  |   |   |     |                          |     | Biomaterials (4)                                |     |     |     |  |  |
|  |   |   |     |                          |     | Chemical Sensors and Biosensors (6)             |     |     |     |  |  |
|  |   |   |     |                          |     | Applications of Organic Photochemistry (4)      |     |     |     |  |  |
|  |   |   |     |                          |     | Supramolecular Chemistry (3)                    |     |     |     |  |  |
|  |   |   |     |                          |     | Molec. Materials for Liquid Crystal and NLO (3) |     |     |     |  |  |
|  |   |   |     |                          |     | Advanced Polymers (3)                           |     |     |     |  |  |
|  |   |   |     |                          |     | Electric and Magnetic Molecular Materials (3)   |     |     |     |  |  |
|  |   |   |     |                          |     | Electron Microscopy (4)                         |     |     |     |  |  |
|  |   |   |     |                          |     | X-Ray Diffraction (5)                           |     |     |     |  |  |
|  |   |   |     |                          |     | Organic Molecular Materials (3)                 |     |     |     |  |  |
| Wroclaw University (WRUN)              |   |   |     |                          |     | Polish courses (3)                              |     |     |     |  |  |
|  |   |   |     |                          |     | Bioinorganic Chemistry (4)                      |     |     |     |  |  |
|  |   |   |     |                          |     | Computer design of new materials for biology(6) |     |     |     |  |  |
|  |   |   |     |                          |     | Bio-organic Chemistry (4)                       |     |     |     |  |  |
|  |   |   |     |                          |     | Protein chemistry (4)                           |     |     |     |  |  |
|  |   |   |     |                          |     | Molecular Interactions (4)                      |     |     |     |  |  |
|  |   |   |     |                          |     | Fundamentals of molecular spectroscopy (4)      |     |     |     |  |  |
|  |   |   |     |                          |     | Photoinduced electron transfer (4)              |     |     |     |  |  |
|  |   |   |     |                          |     | Spectroscopic and Chemometric techniques (6)    |     |     |     |  |  |
|  |   |   |     |                          |     | Molecular Magnetism (4)                         |     |     |     |  |  |