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| Course Title | FEMTOSECOND SPECTROSCOPY   |
| Instructor   | Fabrizio Messina   |
| N of hours   | 10   |
| Description  | Introduction to femtosecond time-resolved optical spectroscopies and their use in material science   |
| Contents     | <ul style="list-style-type: none"><li>- Overview of ultrafast time-resolved spectroscopy.</li><li>- Generation, manipulation and use of ultrashort light pulses. The Ti:Sapphire laser. Basics of nonlinear optics.</li><li>- Instrumental setups for pump/probe and fluorescence upconversion spectroscopy.</li><li>- Laboratory sessions on pump/probe spectroscopy.</li></ul> |