

Reference : MaNuEn

Duration : 509 hours (78,25 hours at INSTN) + 5 months internship (1 year (INSTN module : 3 weeks)m)

Place : INSTN cadarache

Contact :

elisabeth.de-lavergne@cea.fr

Master 2 Material Science for Nuclear Energy (MaNuEn)

DETAILS

The content of the second-year program and courses has been established in collaboration with EDF engineers and CEA engineers. The second year takes place over 2 semesters: all the courses of the master are taught in the first semester (September to January) : 2 specialized courses taught at INSTN Cadarache (3 weeks in December) and Material Aging Institute (2 weeks in January at EDF Renardières) are part of the curriculum. The second semester is devoted to an internship of 5 months minimum in industry or research laboratory.

- Reactor concepts and materials (6 ECTS) - Material ageing in nuclear environment (6 ECTS) - Components at EDF + energy issues (6 ECTS) - nuclear fuels at CEA (6 ECTS) - language and project (6 ECTS) - Internship / master thesis (30 ECTS)