UNIVERSITAT POLITÈCNICA DE CATALUNYA **Master Degree on Chemical Engineering – Smart Chemical Factories** Escola d'Enginyeria de Barcelona Est Q1 Biotech. Processes Data Analysis & Chemical and Catalytic Sustainability and **Technological** and Polymer Pattern Recognition **Reaction Engineering** circular economy **Innovation** Industry Q2 Experimentation and Polymer Transform. Management and SPE **Polymer Physics** Organization Instrumentation **Processes Membrane Processes Industrial Water GCPE Process Control** and Technologies **Technologies** Q3 Risk and Safety at the Chemistry of Biopolymers and Nanotechnology **SPE** Chemical Industry Polymerization bioplastics Waste Resource Advanced catalytic **GCPE Process Integration Technologies** Reactors Q4 Products and Processes Engineering (mandatory) Design of Equip. -**Advanced Materials SPE Final Master** Management (mandatory) Coating Techs. Thesis SPE - Smart Polymer Engineering (specialization track) Computational Fluid **Circular Process** (18 ECTS) **GCPE**

GCPE - Green Chemical Processes Engineering (specialization track)

Dynamics

Engineering