

Formulation



En bref

- › Langue(s) d'enseignement: Français
- › Ouvert aux étudiants en échange: Oui

Présentation

Description



Objectifs

Formulation is a multidisciplinary science which consists in associating active materials or active principles and formulation auxiliaries (excipients, additives...) leading to a mixture answering a precise specification. After studying the physico-chemistry of dispersed media (colloidal suspensions, solutions, emulsions, etc.) and related analytical methods (spectroscopy, rheology, etc.), a focus will be devoted to mixtures for organic electronics.

The objective is to understand how to make a functional material printable (conductive, semiconductor or dielectric material, for example). This involves understanding the general principles of the formulation of a liquid, knowing the physico-chemical and rheological properties of liquids, in order to meet the specifications of the implementation processes on the one hand, and the requirements of the intended application, on the other hand.

Heures d'enseignement

CM - Formulation	Cours magistral	18h
TD - Formulation	Travaux dirigés	4h
TP - Formulation	Travaux pratique	8h

Pré-requis obligatoires

Know the main principles of formulation and formatting.

Know the main operating principles of characterization techniques.

Use the methods of data collection and qualitative and quantitative data processing.

Analyze and synthesize data with a view to their exploitation.

Define the methods, the means of study and their implementation (adequacy of the characterization technique to the parameter studied).

Infos pratiques

Lieu(x)

> Angers