

Code: QF661								
Name: Química Aplicada								
Name in English: Applied Chemistry								
Name in Spanish: Química Aplicada								
Subject type: Weekly								
Approval Type: Grade and Attendance								
Characteristic: Regular								
Frequency: 75%								
Period Type / Offering period: Semester / All periods								
Requires Final Exam: Yes								
Vectors								
T	L	P	O	PE	OE	SL	WEEKS	CREDITS
4	-	-	-	-	-	4	15	4
Occurrence on curriculum: 05, 50								
Pre requirement: * QF531								
Summary: Materials: polymers and other materials. Colloids and surfaces: surfactants, foams, wettability, detergency, stability, and properties of dispersions.								
Program: Introduction to polymers; thermal properties; mechanical properties; blends and composites; polymerization; processing and additives; biodegradable and recyclable polymers. Polymer solutions and rheology. Colloids and surfaces: surfactants properties and association, foams, emulsions, wettability, detergency, stability, and properties of dispersions.								
Basic Bibliography 1. MYERS, D. Surfaces, Interfaces, and Colloids: Principles e Applications , 2. ed. New York: Wiley-VCH, 1999. E-book. 2. SHAW, D. J. Introduction to Colloid and Surface Chemistry , 4. ed. Oxford: Butterworth-Heinemann, 1992. E-book. 3. SPERLING, L. H. Introduction to Physical Polymer Science , 4. ed., New York: John Wiley; 2006. E-book.								
Supplementary Bibliography 1. EVANS, D. F; WENNERSTRÖM, H. The Colloidal Domain: Where Physics, Chemistry, Biology, and Technology Meet , 2. ed., New York: VCH, 1999. 2. ROSEN, M. J. Surfactants and Interfacial Phenomena , 3. ed., New York: John Wiley, 2004. E-book. 3. ROSS, S.; MORRISON I. D. Colloidal Dispersions: Suspensions, Emulsions and Foams , New York: John Wiley, 2002. 4. CANEVAROLO JR., S. V. Técnicas de Caracterização de Polímeros , São Paulo: Artliber, 2004. 5. YOUNG, R. J. Introduction to Polymers , 2. ed., Boca Raton: CRC, 1991.								