

FEDERAL UNIVERSITY OF CEARÁ Provost Office of Research and Graduate Studies

COURSE PROGRAM

1. PROGRAM:				
Program GRA	ADUATE PROG	RAM IN CHEMISTRY		
2. COMPONENT TYPE:				
Activity () Course (X)		Module ()		
3. LEVEL:				
Master's Degree (X)		Doctorate (X)		
4. COMPONENT IDENT	IFICATION:			
Name: INTRODU APPLICA		OUCTION TO ADSORPTION - FUNDAMENTALS AND ATIONS		
Code: CEP9322				
Hours: 48 horas				
Credits:	03			
Optional course:	Yes (X)	No ()		
Compulsory course:	Yes ()	No (X)		
Area:	There are	There are no mandatory concentration areas for the discipline.		
5. PROFESSOR:	•			
6. ABSTRACT:				
Studies and debates about the	ne adsorption pho	enomenon.		
7. COURSE PROGRAM:				
	on, driving force	sorption equilibrium, models, heat of adsorption, Henry's , diffusion in macropores and micropores, dynamics in trial applications.		
8. EVALUATION PROCE	SS:			

9. BIBLIOGRAPHY:

- 1. Ruthven, D.M. Principles of adsorption processes. Wiley, N.Y., 1984.
- 2. Karger, J.; Ruthven, D.M. Diffusion in zeolites and other microporous solids. Wiley, N.Y., 1992.
- 3. Hellmut G. Karge, Jens Weitkamp. Adsorption and Diffusion. Springer Nature, 2020.
- 4. José Paulo MotaSvetlana Lyubchik. Recent Advances in Adsorption Processes for Environmental Protection and Security. Springer Nature, 2020.