

Anno Accademico 2018/2019

MATERIALS' CHARACTERIZATION TECNIQUES		
Enrollment year	2018/2019	
Academic year	2018/2019	
Regulations	DM270	
Academic discipline	CHIM/02 (PHYSICAL CHEMISTRY)	
Department	DEPARTMENT OF CHEMESTRY	
Course	CHEMISTRY	
Curriculum	PERCORSO COMUNE	
Year of study	1°	
Period	2nd semester (01/03/2019 - 20/06/2019)	
ECTS	6	
Lesson hours	48 lesson hours	
Language	Italian	
Activity type	ORAL TEST	
Teacher	BINI MARCELLA (titolare) - 3 ECTS QUARTARONE ELIANA - 3 ECTS	
Prerequisites	To better understand the lesson topics, physics and inorganic and physical chemistry basic notions are required	
Learning outcomes	At the end of the course the students must know the main microscopic, spectroscopic adn thermal techniques and their application fields	
Course contents	Module 1 - Adsorption phenomenon, main isotherms and their classification; thermal techniques (thermogravimetry TGA, differential thermal analysis DTA, differential scanning calorimetry DSC, DMA and TMA with application in food industry); scanning electron microscopy (SEM and forensic analysis application); electronic microanalysis (EDS and WDX)	
Teaching methods	The couse is based on frontal lessons. No tutoring is present and any minimum of frequency is required.	

Reccomended or rec	uired Th dings	ne material fro the exam preparation is provided by the teachers
Assessment me		ne assessment of skills will be based on an oral examination to verify e ability to differentiate the techniques explained during the lessons
Further inform	nation	
Sustainable develop goals - Agenda	CI CI	bl legenda sviluppo sostenibile