			2019 TUTORIALS					
					ASSIGNMENTS #1			
CENTAINE			CTATEMENT		#1		#2	
SEMAINE		6 H L (1H L ) I 005	STATEMENT	DELIVERY	STATEMENT	DELIVERY	STATEMENT	DELIVERY
		Syllabus (All about the GBE	EXCELIOOIS					
	<u>18 February - 24 February</u>	Quantification of microbial	solving					
#1		rates	Solver & Fitting					
		Quantification of microbial						
		rates						
	25 February - 3 March	Concept of Reduction						
	25 rebruary - 5 Waren	Degree						
		Fundamentals of Microbial						
		Growth Stoichiometry						
#2			Tutorial#1 Growth					
		#2.2 - Fundamentals of						
	4 March - 10 March	Microbial Growth						
		Stoichiometry - Continued -						
		Undefined chemical systems						
#3		WWT modeling introduction	Tutorial#2 Stoichio	Tuto#0				
	<u>11 March - 17 March</u>	#ASM - Introduction to ASM						
#4		(Activated Sludge Modelling)	Aquasim	Tuto#1				
		#3 - Black box kinetics of						
	18 March - 24 March	microbial growth (Herbert-						
		Pirt and Monod relations)						
#5		Assignment-project#1		Tuto#2				
#5		Assignment-project#1		1010#2	A33#1 DB03			
		#3.1 - Black box kinetics of						
		microbial growth (Extended						
	25 March - 31 March	Herbert-Pirt)						
		Beyond subtstrate limitation,						
		pH, temperature, inhibition						
		& competition						
#6		Assignment A.2.1 A.2.2.	Tutorial#4 YGX	Aquasim			Ass#2 2.1-2	
		#4 - Thermodynamic of						
	1 April - 7 April	growth						
		Introduction Assignment-						
#/		project#2 A 2.1/2.2				Ass#1 DBO5		
		#5 Growth of						
		reactors						
	8 Anril - 14 Anril	#5.1 Growth of						
		microorganisms in						
		CHEMOSTAT reactors						
#8			Tutorials#5 Chemosta	Tuto#4				
		#5.2 COMPETITION in						
		Chemostat						
		Introduction Assignment-						
		project#2 A 2.3						
	<u> 15 April - 21 April</u>	#5.3 Growth of						
		microorganisms in reactors						
		FEDBATCH						
#9				Tuto#F			<b>۸</b> دد#۲ ۲ ۲	
#9 #10	22 April - 28 April	VACANCES		Tuto#5			ASS#2 2.3	
	22 April 20 April	#6 General aspects of	<u> </u>					
		transport processes in						
	<u> 29 April - 5 May</u>	bioreactors - Gas transfer						
#11		(Kla)	Tutorial#6 Kla			Ass#1 DBO5		
		#6.1 Coupled		t				
		transport/Conversion in						
	6 May - 12 May	bioreactors (limitation)						
	o widy - 12 Widy	#7 Fixed biomass bioprocess						
		Biofilm						
#12				Tuto#6				
		H7 1 Caugh disease						
	<u> 13 May - 19 May</u>	#7.1 Coupled transport-						
#12		immobilized microorganisms						Δcc#7 7 1 7
#13		minoomzeu microorganisms						M33#2 2.1-2
		Introduction to						
		Measurement &						
		Instrumentation on						
	<u>20 May - 26 May</u>	environmental bioprocesses						
		Introduction to SIE-M3						
		Environmental bioprocess						
#14		practical labs						Ass#2 2.3
#15	27 May - 2 June	MCQ Final Evaluation						