Unit				
Sustainability in Chemical Engineering				
Level	Terr	m	Duration	
CET I		LT 2021	12 lectures	
become a major factor course will examine the	in decision making e foundation princij f circular economy	of many companies ples of sustainability and its implications	nost pressing societal challenge today. It has s employing chemical engineering graduates. This y, the concept of life cycle and its adoption in s for chemical industry, and the more challenging	
This course provides a	ork and foundation	for quantitative me	cal engineering context. The aim is to establish thods to the analysis of (bio)chemical processes	
After completing this c Know the origins towards sustainab Understand the co	of sustainability co vility. oncept of life cycle	oncept and key inter	ts, students should be able to: national policy documents outlining the directions y it to basic (bio)chemical processes. roblem	
Assumed Knowledge Material Algebra; Material balances; Energy balances			<i>Source</i> IA courses	
Connections To Other	Units			
This course builds on r		ET IA.		
<i>Self Assessment</i> Examples of problems	within lectures; on	e exercise; supervis	ions.	
Assessment The material from this	unit is assessed by	coursework.		
Prepared	Approved	Subject Group	ing	
AAL 12/9/2020	GDM	•	pulsory Topics	

<i>Unit</i> Sustainability IB	<i>Staff</i> Prof. A.A. Lapkin
Sustainaonity IB Synopsis	пол. д.д. сарки
1. Sustainability concept and its place in (Bio)Chemical Engineering	
2. Three pillars of sustainability	
3. Life cycle thinking	
4. Sustainability as system science	

References to original and review papers for background reading and discussion will be mentioned during References to original and review papers for background reading and discussion while ended and ended in Moodle.
The following books may be useful:
B.R. Bakshi, Sustainable Engineering. Principles and Practice, Cambridge University Press, 2019.
M. Robertson, "Sustainability Principles and Practice", Routledge, 2014.