DEREE COLLEGE SYLLABUS FOR:

IR 4041: THE ROLE OF ENERGY IN THE 21ST CENTURY (Fall 2023)

US CREDITS: 3/0/3 UK LEVEL:6 UK CREDITS:15

PREREQUISITES:	
CATALOG DESCRIPTION:	An in-depth examination of several topics about energy and its importance and sustainability in today's emerging international system, focusing on issues such as economics, diplomacy, security, and the environment.
RATIONALE:	The course provides students with an in-depth understanding of contemporary global energy trends, as well as up-to-date views on the impact of energy on the topics of international economy, geopolitics, security, and several key environmental issues. By adopting an interdisciplinary and multifaceted approach to the study of the role of energy, this course prepares students for a wider appreciation of broader global issues and demonstrates how energy plays a pivotal role in their understanding and analysis. Students are expected to engage in academic debates and discourses by presenting academically informed reflections on several of these topics.
LEARNING OUTCOMES:	 As a result of taking this module, the students should be able to: Demonstrate an advanced understanding of global energy trends, looking into the landmark events of the 20th and the 21st century. Critically evaluate the relevance of energy in international economy, regional affairs, and security, assessing the value of the relevant sources and interpretations in a systematic and scholarly manner. Critically assess energy sustainability, the green transition, and the impact of demographics in energy.
METHOD OF TEACHING AND LEARNING:	 In congruence with the teaching and learning strategy of the college, the following tools are used: Lectures and class discussions Homework assignments. Office hours held by the instructor to provide further assistance to the students. Use of library facilities for further study and preparation for the exams. Use of the Blackboard course management platform to further support communication, by posting lecture notes, assignment instruction, timely announcements, formative quizzes, and online submission of assignments.

ASSESSMENT:	Summative:		
	1 st Asessment: Take-home assessment, 1000	40%	
	words max)	60%	
	Final Assessment. Research Paper (5,000 words)	00%	
	Formative:		
	In-class presentations.	0%	
	Case Discussion	0%	
		0/0	
	The formative assessments aim to prepare studen	ts for the summat	tive
	assessments. The "First Assessment" tests Learning Outcomes 1-	2	
	The 'Final Assessment' tests Learning Outcomes 1,	2, and 3.	
	when the state of		
	The final grade for this module will not be detern averaging. Students are required to resit any failed	ninea through gri d assessments.	aae
INDICATIVE READING:	REQUIRED READING:		
	Given the nature and the scope of this module w	hich involve a var	ried
	array of topics, no prescribed readings can be given	. The reading list	will
	examination.	the topics un	luer
	RECOMMENDED READING:		
	BOOKS & BOOK CHAPTERS		
	Conkling, Roger L. Energy Pricing: Economics and	d Principles.	
	Heidelberg: Springer Link, 2011.		
	Manning, Robert A. "The shale revolution and the shale revolution	ne new geopolitics	s of
	energy". In New Realities: Energy Security in the	2010s and	
	Implications for the U.S. Military, edited by John	R. Deni, 113-128	
	Pennsylvania: US Army War College, 2015.		
	Pascual, Carlos and Jonathan Elkind, eds. Energy	Security: Econom	nics,
	Politics, Strategies, and Implications. Washingto	n DC: Brookings	
	Institution Press. 2010.		
	Quaschning, Volker V. Renewable Energy and Clu	imate Change.	
	Chichester: John Wiley & Sons, 2nd Edition, 201	9.	
	Shaffer, Brenda. Energy Politics. Philadelphia: Ur	niversity of	
	Pennsylvania Press. 2011.		
	Smil Vaclay Energy and Civilization: A History	Aassachusette MI	т
	Prose 2017		••
	FIE35, 2017.		

<u>10</u>	URNAL ARTICLES
•	Asif, M. and T. Muneer. "Energy supply, its demand and security
	issues for developed and emerging economies". Renewable and
	Sustainable Energy Reviews 11, no. 7 (September 2007): 1388-1413.
	https://doi.org/10.1016/j.rser.2005.12.004.
•	Blondeel, Mathieu, Michael J. Bradshaw, Gavin Bridge, Caroline
	Kuzemko. "The geopolitics of energy system transformation: A
	review". Geography Compass 15, no. 7 (July 2021).
	https://doi.org/10.1111/gec3.12580.
•	Bordoff, Jason and Meghan L. O'Sullivan. "Green Upheaval: The New
	Geopolitics of Energy". Foreign Affairs 68 (January- February 2022).
	https://www.foreignaffairs.com/articles/world/2021-11-
	30/geopolitics-energy-green-upheaval.
•	Cleveland, Cutler J., Robert K. Kaufmann, David I. Stern.
	"Aggregation and the role of energy in the economy". Ecological
	Economics 32, no. 2 (February 2000): 301-317.
	https://doi.org/10.1016/S0921-8009(99)00113-5.
•	Dorian, James P., Herman T. Franssen, Dale R. Simbeck. "Global
	challenges in energy". Energy Policy 34, no. 15 (October 2006):
	1984-1991. <u>https://doi.org/10.1016/j.enpol.2005.03.010</u> .
•	Gielen, Dolf, Francisco Boshell, Deger Saygin, Morgan D. Bazilian,
	Nicholas Wagner, Ricardo Gorini. "The role of renewable energy in
	the global energy transformation". Energy Strategy Reviews 24 (April
	2019): 38-50. https://doi.org/10.1016/j.esr.2019.01.006.
•	Grunewald, Philipp and Marina Diakonova. "Flexibility, dynamism
	and diversity in energy supply and demand: A critical review".
	Energy Research & Social Science 38 (April 2018): 58-66.
	https://doi.org/10.1016/j.erss.2018.01.014.
•	Holdren, John P. "Population and the energy problem". Population
	and Environment 12 (March 1991): 231–255.
	https://doi.org/10.1007/BF01357916.
•	Khan, Nasrullah, Saad Dilshad, Rashida Khalid, Ali Raza Kalair, Naeem
	Abas. "Review of energy storage and transportation of energy".
	Energy Storage 1, no. 3 (June 2019).
	https://doi.org/10.1002/est2.49.

Kim, Younkyoo and Stephen Blank. "US shale revolution and Russia:
shifting geopolitics of energy in Europe and Asia". Asia Europe
Journal 13 (March 2015): 95–112. <u>https://doi.org/10.1007/s10308-</u>
<u>014-0400-z</u> .
Matsuo, Yuhji, Akira Yanagisawa, Yukari Yamashita. "A global energy
outlook to 2035 with strategic considerations for Asia and Middle
East energy supply and demand interdependencies". Energy
Strategy Reviews 2, no. 1 (June 2013): 79-91.
https://doi.org/10.1016/j.esr.2013.04.002.
Newnham, Randall. "Oil, Carrots, and Sticks: Russia's Energy
Resources as a Foreign Policy Tool". Journal of Eurasian Studies 2,
no. 2 (July 2011): 134–143.
https://doi.org/10.1016/j.euras.2011.03.004
Olabi, A.G. and Mohammad Ali Abdelkareem. "Renewable energy
and climate change". Renewable and Sustainable Energy Reviews
158 (April 2022), https://doi.org/10.1016/i.rser.2022.112111.
Omer. Abdeen Mustafa. "Energy, environment and sustainable
development". Renewable and Sustainable Energy Reviews 12, no. 9.
(December 2008): 2265-2300.
https://doi.org/10.1016/i.rser.2007.05.001.
Pfenninger, Stefan, Adam Hawkes, James Keirstead, "Energy systems
modeling for twenty-first century energy challenges". <i>Renewable</i>
and Sustainable Energy Reviews 33 (May 2014): 74-86.
https://doi.org/10.1016/j.rser.2014.02.003.
Stern, David I. "The role of energy in economic growth". <i>Ecoloaical</i>
<i>Economics Reviews</i> 1219, no. 1 (February 2011): 26–51.
https://doi.org/10.1111/j.1749-6632.2010.05921.x.
Vidakis, Ioannis and Georgios Baltos. "Security Aspects of
"Geoenergeia" and the Significance of Energy Resources
Management in International Politics". Geopolitics of Energy 37, no
3 (April 2015): 2-16. https://mpra.ub.uni-
muenchen de/id/enrint/85031
Woodcock James David Banister Phil Edwards Andrew M Prentice
lan Roberts "Energy and transport" The Lancet 270 pp. 0502
(2007): 1078-1088 https://doi.org/10.1016/c0140.6726/07/61254
2007). 1076-1000. <u>https://doi.org/10.1010/S0140-6756(07)61254-</u>
<u>2</u> .

	 Yu, Jianhua and Yichen Dai. "Energy Politics and Security Concepts from Multidimensional Perspectives". <i>Journal of Middle Eastern and</i> <i>Islamic Studies (in Asia)</i> 6, no. 4 (July 2012): 91-120. <u>https://doi.org/10.1080/19370679.2012.12023215</u>.
	STUDIES Korteweg Rem Energy as a tool of foreign policy of
	authoritarian states, in particular Russia, Belgium: European
	Parliament, 2018. <u>https://doi.org/10.2861/951739</u> .
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INDICATIVE MATERIAL: (e.g. audiovisual, digital material, etc.)	N/A
COMMUNICATION REQUIREMENTS:	Effective written and oral communication skills using appropriate academic terminology
SOFTWARE REQUIREMENTS:	MS-Office 365 applications
WWW RESOURCES:	Students are expected to use databases available through the ACG library and the STR.
INDICATIVE CONTENT:	 The role of energy in modern history. From the 3rd to the 4th industrial revolution. What is energy? Types and forms of energy and its importance in defining global affairs. Economics of energy (Pricing, stock market, storage, supply & demand). Energy and Sustainability. The effect(s) of the Climate Crisis. The demographics of energy. Energy and regional affairs/balance. The case of the eastern Mediterranean.