COURSE TITLE	The Ethics of A	rtificial Intelligence	CREDITS		3			
COURSE CODE	GLAE 1202	COURSE CATEGORY	CORE L-T-P		2-0-0			
VERSION	1.0	APPROVAL DETAILS	ACM	LEARNING LEVEL	BTL-2			
ASSESSMEN	T SCHEME		•					
	During Semester Assessment (DSA)  Semester End Examination							
MSE		DSA Components	Attendance		SEE			
	20%	25%		5%	50%			
	Artificial intelligence (AI) increasingly executes tasks that previously only humans could do, such as driving cars,							
	diagnosing illnesses, and even selecting job applicants. What is more, in some domains, AI also outperforms							
	humans. For these and other reasons, some people conjecture that AI could have a greater impact on humanity							
	than fire and electricity. But in any case, AI will continue to change and disrupt many areas of our lives, posing							
Course	intricate social, po	olitical, and ethical questions. This series of lect	tures is an	introduction to	the ethics of AI. The			
Description	objectives of the lectures are (1) to equip students with detailed knowledge about applications of AI across							
	several domains, (2) to help students learn moral theories and ethical approaches in relation to AI, and (3)							
	enhance students' analytical skills in the context of ethical challenges more generally. For each lecture, I							
	recommend one article or chapter from recommended book to be read in advance. The lectures themselves							
	will include various opportunities for interaction and discussion.							
	The objective of this course is to provide students with a comprehensive understanding of the							
	ethical implications and challenges posed by artificial intelligence (AI). By the end of the							
Course								
Objectives	course, students will be able to critically analyze and evaluate the ethical considerations							
	surrounding AI development, deployment, and impact on society.							
	1. Analyze the fundamental principles of ethics, moral values and their application to the							
	field of artificial intelligence.							
Course	2. Evaluate the ethical implications of AI technologies in various domains, such as							
	healthcare, finance, autonomous vehicles, and medicine.							
	3. Understand the ethical considerations in data collection, privacy, and security in Al							
Outcome	systems.  4. Examine the social and economic impacts of AI technologies, including the effects on							
	employment, inequality, and power dynamics.							
	5. Critically evaluate the ethical frameworks and guidelines proposed for AI development and deployment.							
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CO-1	3	1	-	3	-	-	2	-	-	-	- 11 -	_
CO-2	3	3	-	1	3	-	2	2	-	-	_	_
CO-3	3	3	-	2	-	-	1	3	3	-	_	_
CO-4	3	3	-	3	3	-	1	3	3	-	_	_
CO-5	3	3	-	3	-	-	1	-		-	_	_
CO-3	3		4.14/2		Lad 2. B	0 - d t -			Ctura us alle			
MODII	1 C 1 · Th	o Ethics				Overview		ea ana 3:	Strongly	related		
The first lecture introduces students to the basics of artificial intelligence and to ethics as an academic discipline. On this basis, the lecture also discusses the aims of AI Ethics more specifically.				CO-1								
MODU	LE 2: In	telligent	machine	es' value	s and h	uman in	telligenc	е				
The se	cond le	ecture e	xplains (	underlyir	ng value	s of Al,	the nat	ure of h	numan in	telligence in	С	0-2
connection with the nature of AI. The lecture also discusses the topic of augmenting human												
	ence wi											
MODU	LE 3: Re	esponsib	ility									
The third lecture explains how the use of AI led to difficult questions about responsibility and					C	0-2						
the challenge of so-called 'responsibility gaps', i.e. situations in which AI cause harm but no one												
		esponsibl										
			and Ma	•								20.2
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	•		the threa		•	uon.						
טעטואו	LE 3: AI	gorium	ic Discrir	iiiiation								
The fifth lecture focuses on discrimination through algorithms. It explains how and why Al						С	0-3					
system	s can be	e biased	and expl	ores sev	eral app	roaches	to fight b	oias and o	discrimina	tion.		

The sixth lecture focuses on the collection of personal data through new technologies such as AI CO-3						
and discusses both the dangers and potential promise of AI in this area						
MODULE 7: Cybersecurity						
The seventh lecture elaborates on the increased risk of cyberattacks with new digital	CO-4					
technologies and discusses how AI might not only exacerbate these risks but also be a critical	CO-4					
tool in enhancing cybersecurity.						
MODULE 8: Models of personhood and AI						
The eight lecture lays out how AI, and digital technologies more generally, can transform the	CO-4					
person as well as all inner world of human. We discuss how usage of AI-technology influence	CO-4					
personhood.						
MODULE 9: Explainability and Transparency						
The ninth lecture focuses on a central problem in AI ethics, namely that the best AI systems tend to be	CO-5					
the least transparent and least explainable.						
MODULE 10: Al and the Future of Work						
The tenth lecture shows how AI has automated an increasing number of tasks and thereby revolutionised						
production and work force. But this tendency also creates questions about justice and equality.						
MODULE 11. Al and the Personalisation of Medicine						
This eleventh lecture showcases some of the most impressive advances in AI in the context of	CO-5					
healthcare. In the discussion of several case studies, the lecture asks what fundamental values						
are at stake and how we might need to change our ethical frameworks in response to AI.						
MODULE 12. Future perspective of AI: AGI, superintelligence, strong AI						
This twelth lecture shows how humanity can live with AI in future. The future of AI, especially	CO-5					
AGI, superintelligence and strong AI is discussed from teleological point of view.						
TEXT BOOKS						
• Lawrence N.D.The Atomic Human: Understanding Ourselves in the Age of	f AI. New-Your:					
Public affairs, 2024. 260 p.  • Chalmers, D.J. Reality +: Virtual Worlds and. the Problems of Philosophy. New-York. 2022.						
p.505	•					
	• He, Jianxing, et al. "The practical implementation of artificial intelligence technologies in					
medicine." Nature medicine 25.1 (2019): 30-36  • Peah Moradi and Karen Levy, "The Future of Work in the Age of AI: Displacement or Risk-						
Shifting", in M. Dubber,						
Pasquale F., and Das S. (eds), The Oxford Handbook of Ethics of AI (OUP, 2020)						

	• Mittelstadt, Brent, Chris Russell, and Sandra Wachter. "Explaining explanations in Al."								
	Proceedings of the conference on fairness, accountability, and transparency. 2019								
	Manheim, Karl, and Lyric Kaplan. "Artificial intelligence: Risks to privacy and democracy." Yale								
	JL & Tech. 21 (2019): 106								
	• Kaloudi, Nektaria, and Jingyue Li. "The ai-based cyber threat landscape: A survey." ACM								
	Computing Surveys (CSUR) 53.1 (2020): 1-34								
	Bostrom, N Superintelligence: Paths, dangers, strategies. Oxford, Oxford University Press2016								
	• Wallach, W.; Allen, C. Moral Machines: Teaching Robots Right from Wrong — USA: Oxford								
	University Press, 2008								
	• Russell, S. Human Compatible: Artificial Intelligence and the Problem of Control. — New-								
	York: Viking, 2019. 345 p.								
REFERENC	E BOOKS								
	Fazelpour, Sina, and David Danks. "Algorithmic bias: Senses, sources, solutions." Philosophy Compass 16.8								
1.	(2021): e12760								
	Bartmann, Marius. "The Ethics of Al-Powered Climate Nudging—How Much Al Should We Use to Save the								
2.	Planet?." Sustainability 14.9 (2022): 5153								
3	Coeckelbergh, Mark. "Artificial intelligence, responsibility attribution, and a relational justification of								
	explainability." Science and engineering ethics 26.4 (2020): 2051-2068								
	Bostrom N. and Yudkowsky E. "The ethics of artificial intelligence". In W. M. Ramsey and K. Frankish, editors,								
4	The Cambridge Handbook of Artificial Intelligence, Cambridge University Press, 2014, p. 316–334								
5.									
	for Artificial Intelligence. Artificial Intelligence: Foundations, Theory, and Algorithms, Springer 2017								
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