INTERNATIONAL QUALIFICATIONS

AND ASSESSMENT CENTRE (IQAC)

«Approved»

2025 y. «16» iyul

Programme	**Level 7 Diploma in Artificial Intelligence**		
Unit Number/ Unit Title	UNIT 4 HUMAN-CENTERED AI AND SOCIETAL IMPACT		
Cohort Code:	L07HCSI-U4		
Unit Level	7		
Total GLH	Total qualification time 200/ Total Guided learning hours 90/ Self-guided learning hours 110		
Credits	20 CATS/ 10 ECTS		
Lecturer			
Start Date		**End Date**	

Unit Aims	This unit provides a critical examination of Human-Centered AI (HCAI), focusing on designing AI systems that are transparent, equitable, and aligned with human values. Learners will explore inclusive design, participatory approaches, and the societal implications of AI deployment, including labour displacement, digital divides, and algorithmic bias. Emphasis is placed on building systems that enhance human well-being, autonomy, and social justice.
Differentiation Strategies *(e.g. planned activities or support for individual learners according to their needs)*	The total number of students to be in the lesson is approximately 20. This is a multicultural group of students predominantly between the ages of 24 – 45, with numerous ethnic, gender, and creed background. These are UK academic level 5 students; hence it is assumed that they have practical, theoretical, or technological knowledge and understanding of a subject or field of work to find ways forward in broadly defined, complex contexts. These students must be able to generate information, evaluate, synthesise the use information from a variety of sources. Various approaches to addressing the various identified students needs will be adopted throughout the lesson. Such will include:- 1. Progressive tasks

	2. Digital resources 3. Verbal support 4. Variable outcomes 5. Collaborative learning 6. Ongoing assessment 7. Flexible-pace learning
Equality & Diversity	Variety of teaching techniques will be employed to ensure that the needs of each individual learner are met.
Safeguarding & Prevent	Safeguarding policies and the Prevent duty are strictly observed to ensure the safety, well-being, and inclusivity of all students and staff.
Health & Safety	SIRM H&S policies will be maintained.
Learning Resources	**Teaching and Learning Materials**
	• Shneiderman, B. (2022). Human-Centered AI. Oxford University Press. • Eubanks, V. (2018). Automating Inequality. St. Martin's Press. • Benjamin, R. (2019). Race After Technology. Polity Press. • Binns, R. (2018). Fairness in Machine Learning: Lessons from Political Philosophy. FAT Conference. • UNESCO (2021). Recommendation on the Ethics of Artificial Intelligence.

Learning Outcome	Assessment Criteria
LO1. 1. Understand the principles of human- centered AI design.	Written Report: 1.1 Discuss HCAI design frameworks and values- based design. 1.2 Evaluate stakeholder inclusion methods in AI development.
LO2. 2. Analyse the societal and cultural impacts of AI deployment.	Policy Brief: 2.1 Examine case studies where AI influenced social inequality or bias. 2.2 Recommend socio-technical policy responses.
LO3. 3. Assess AI's impact on human labour, agency, and autonomy.	Research Essay: 3.1 Critically evaluate labour automation trends. 3.2 Explore ways AI systems can augment rather than replace human skills.
LO4. 4. Design inclusive, ethical, and user- aligned AI systems.	Design Portfolio: 4.1 Present a prototype that applies universal design principles. 4.2 Incorporate user feedback and ethical impact assessments.
LO5. 5. Reflect on global governance, justice, and equity in the age of AI.	Seminar and Reflective Essay: 5.1 Facilitate a seminar on AI justice frameworks. 5.2 Write a critical reflection on global AI governance gaps.

No	Learning Outcome / Topic	Learning and Teaching Activities	Which assessment criteria does the session relate to?	Day/month/year/ signature
1.	**Design Frameworks for HCAI**	**Design Frameworks for HCAI** Value-sensitive design (VSD), participatory design, co-creation	LO1: Human-Centered AI (HCAI) Design Principles	
2.	**Stakeholder Mapping & Inclusion**	**Stakeholder Mapping & Inclusion** Identifying affected groups, equity-centered design	LO1: Human-Centered AI (HCAI) Design Principles	
3.	**AI Transparency & Explainability**	**AI Transparency & Explainability** Interpretability vs. explainability, user trust	LO1: Human-Centered AI (HCAI) Design Principles	
4.	**Case Study: Successful HCAI Systems**	**Case Study: Successful HCAI Systems** Examples from healthcare, education, and accessibility tech	LO1: Human-Centered AI (HCAI) Design Principles	
5.	**AI and Social Inequality**	**AI and Social Inequality** Algorithmic bias in hiring, lending, and policing (e.g., COMPAS)	LO2: Societal & Cultural Impacts	
6.	**Cultural Bias in AI Systems**	**Cultural Bias in AI Systems** Language models, facial recognition, and global applicability	LO2: Societal & Cultural Impacts	
7.	**Digital Colonialism**	**Digital Colonialism** Data exploitation, AI monopolies in the Global South	LO2: Societal & Cultural Impacts	
8.	Half-Term Exam	- Review of LO1 topics - Practice questions and mock assessment - **Half-term assessment** based on LO1 (theory)	LO1 LO2	
9.	**Policy Responses to AI Bias**	**Policy Responses to AI Bias** EU AI Act, Algorithmic Accountability Act (US)	LO2: Societal & Cultural Impacts	
10.	**Case Study: AI in Education**	**Case Study: AI in Education** EdTech equity, personalized learning pitfalls	LO2: Societal & Cultural Impacts	
11.	**Automation and Job Displacement**	**Automation and Job Displacement** Historical parallels, reskilling strategies	LO3: AI, Labor & Human Agency	

12.	**AI-Augmented Work**	**AI-Augmented Work** Human-AI collaboration (e.g., GitHub Copilot, medical diagnostics)	LO3: AI, Labor & Human Agency	
13.	**Gig Economy & AI Surveillance**	**Gig Economy & AI Surveillance** Algorithmic management in Uber, Amazon warehouses	LO3: AI, Labor & Human Agency	
14.	Final Exam Preparation & Review	- Comprehensive review of all learning outcomes - Practice questions and revision of key topics		
15.	Final Exam	- **Final-term assessment** covering all learning outcomes (theory and practical elements)		
16.	Feedback & Reflection	- Review of final exam - Individual feedback on performance - Reflective discussion on key learning points		
17.	**Universal Basic Income (UBI) Debates**	**Universal Basic Income (UBI) Debates** AI-driven economic shifts, pilot programs	LO3: AI, Labor & Human Agency	
18.	**Future of Skills**	**Future of Skills** Critical thinking, creativity, and emotional intelligence in the AI era	LO3: AI, Labor & Human Agency	
19.	**Universal Design Principles**	**Universal Design Principles** Accessibility standards (WCAG), inclusive datasets	LO4: Inclusive & Ethical AI Design	
20.	**Prototyping for Marginalized Users**	**Prototyping for Marginalized Users** AI for disability, low-literacy, and non-English speakers	LO4: Inclusive & Ethical AI Design	
21.	**Ethical Impact Assessments (EIAs)**	**Ethical Impact Assessments (EIAs)** Templates, risk matrices, stakeholder feedback loops	LO4: Inclusive & Ethical AI Design	
22.	**User Testing & Feedback**	**User Testing & Feedback** Participatory workshops, iterative design	LO4: Inclusive & Ethical AI Design	
23.	Half-Term Exam	**Capstone Project** Design an HCAI solution with an ethics impact report		
24.	**Case Study: AI in Healthcare**	**Case Study: AI in Healthcare** Bias in diagnostic tools, patient-centered design	LO4: Inclusive & Ethical AI Design	

25.	**AI Justice Frameworks**	**AI Justice Frameworks** Rights-based approaches, distributive justice	LO5: Global AI Governance & Justice	
26.	**Global AI Governance Gaps**	**Global AI Governance Gaps** UN vs. EU vs. national policies, enforcement challenges	LO5: Global AI Governance & Justice	
27.	**Decolonizing AI**	**Decolonizing AI** Indigenous data sovereignty, local AI ecosystems	LO5: Global AI Governance & Justice	
28.	**Seminar: AI for Social Good**	**Seminar: AI for Social Good** Student-led discussions on climate AI, humanitarian tech	LO5: Global AI Governance & Justice	
29.	Final Exam Preparation & Review	LO1, LO2, LO3, LO4	LO1, LO2, LO3, LO4	
30.	Final Exam		LO1, LO2, LO3, LO4	