

Courses for a more connected world

This first-of-its-kind guide is aimed equally at students and companies. It lists courses that will equip them to tackle wicked problems and pursue better outcomes from our systemically complex and connected built environment

Traditional education and training often fall short in equipping people – from aspiring undergraduates to seasoned professionals – with the skills needed to address today's complex challenges: net zero, resilience, the circular economy, biodiversity, social equity, investibility, construction safety and productivity, asset management and whole-life value.

This guide offers a starting point. It's the first listing of UK courses that apply systems thinking to the built environment, helping students

and professionals navigate complexity, interdependence and change – hallmarks of modern cities and infrastructure.

The guide includes bachelor's and master's degrees with systems-focused content, and it picks out dedicated systems thinking programmes, apprenticeships and executive training modules. It enables students to find relevant options and helps companies connect with universities producing systems-capable graduates. It also supports firms in identifying partners for

professional development and senior-level training.

The need for this resource emerged at the inaugural meeting of the Built Environment Connective's academic community. While collaborations like UKCRIC have advanced systems thinking, no clear overview of available courses existed – until now.

This is a first edition, to be updated later this year and annually thereafter. We welcome feedback from students, companies and academic partners.

If you're delivering a relevant

course not yet listed, please get in touch.

This short guide reveals a strong foundation for building the systems thinking capacity the sector urgently needs. We look forward to tracking progress and expanding the guide as systems thinking becomes integral to the built environment.

■ Contact: limited@ukcric.com

Find the right course for you

More detail on all courses listed can be found by clicking on the course names.



	Provider	Course	Qualification gained
Apprenticeships	Transport for London Academy	Transport Planning Apprenticeship	Level 3
	University of Central Lancashire	Building Services and Sustainable Engineering Degree Apprenticeship	Level 6 / BEng
	Cranfield University	Systems Engineering Master's Apprenticeship	Level 7 / MSc
Undergraduate courses	University of Exeter	Systems Engineering	BEng (Hons)
	UCL: Bartlett School	Sustainable Built Environments, Energy and Resources	BSc (Hons)
Postgraduate courses	Cardiff University	Sustainable Energy and Environment	MSc
	Cranfield University	Systems Thinking Practice	MSc
	Imperial College London	Transport	MSc
	King's College London	Sustainable Cities	MSc
	London School of Economics: LSE Cities	City Design and Social Science	MSc
	Loughborough University	Net Zero Building Services Engineering	MSc
	Newcastle University	Urban Planning	MSc
	Open University	Systems Thinking in Practice	MSc
	Oxford Brookes University	Sustainable Architecture: Evaluation and Design	MSc / PDDip
	UCL: Bartlett School	Built Environment: Environmental Design and Engineering	MSc
	UCL: Bartlett School	Light and Lighting	MSc
	UCL: Bartlett School	Smart Buildings and Digital Engineering	MSc
	UCL: Bartlett School	Urban Regeneration	MSc
	UCL: Bartlett CASA	Urban Spatial Science	MSc
	UCL: Civil, Environmental, Geomatic Engineering	Environmental Systems Engineering	MSc
	UCL: Infrastructure Systems Institute	Infrastructure Systems	MSc
	UCL: Institute for Sustainable Heritage	Sustainable Heritage (routes: Data Science / Heritage Science / Heritage Management)	MSc
	University of Bristol	Sustainable Engineering: Civil Engineering and the Built Environment	MSc
	University of Cambridge: Cambridge Institute for Sustainability Leadership	Sustainability Leadership for the Built Environment (IDBE)	MSt / PGCert

	Provider	Course	Qualification gained
Postgraduate courses	University of Edinburgh: Edinburgh College of Art	Advanced Sustainable Design	MSc
	University of Exeter	Water Engineering	MSc
	University of Glasgow	City Planning & Real Estate Development	MSc
	University of Leeds	Sustainable Cities	MSc
	University of Manchester	Urban Design and International Planning	MSc
	University of Nottingham	Sustainable Building Technology	MSc
	University of Oxford: Department for Continuing Education	Sustainable Urban Development	MSc
	University of Portsmouth	Building Information Management	MSc
	University of Reading	Design and Management of Sustainable Built Environments	MSc
	University of Salford	BIM and Digital Built Environments	MSc / PgDip / PgCert
	University of Strathclyde	Sustainable Engineering: Renewable Energy Systems & the Environment	MSc
	University of Strathclyde	Urban Design	MSc
	University of the Built Environment	Innovation in Sustainable Built Environments	MSc / PgDip / PgCert
	University of the Built Environment	Urban Planning	MSc
	University of Westminster	Architecture and Environmental Design	MSc
	University of Cambridge	EPSRC Centre for Doctoral Training in Future Infrastructure and Built Environment: Unlocking Net Zero	MRes / PhD
Short courses	BRE Academy	BREEAM In-Use International	Assessor
	BRE Academy	BREEAM New Construction: Residential (formerly HQM)	Assessor
	BRE Academy	BREEAM UK New Construction	Accredited Professional
	BRE Academy	BREEAM UK New Construction – Assessor Training	Assessor
	BRE Academy	BREEAM UK Non-domestic Refurbishment and Fit-out New Assessor	CPD Certificate
	CIBSE Training	Advanced Simulation Modelling for Design for Performance	CPD Certificate

	Provider	Course	Qualification gained
Short courses	CIBSE Training	Heat Networks Code of Practice (CP1)	CPD Certificate
	CIBSE Training	Low Carbon Consultant – Design	CPD Certificate
	CIBSE Training	Mastering the Application of Heat Pumps	LCC Certificate
	CIBSE Training	The Importance of Energy Efficient Buildings	CPD Certificate
	Edinburgh Futures Institute	Circular Economy in the Built Environment	ECTS Credits
	FutureLearn: University of Leeds	Transport Systems: Global Issues and Future Innovations	CPD Certificate
	ICE Training	Carbon in Infrastructure Procurement	CPD Certificate
	ICE Training	Introduction to Sustainable Drainage Systems	CPD Certificate
	ICE Training	Sustainability	CPD Certificate
	Institute of Sustainability and Environmental Professionals	Advanced Environmental Impact Assessment Training	CPD Certificate
	Institute of Sustainability and Environmental Professionals	Environmental Management in Construction	CPD Certificate
	IStructE	Net-zero Structural Design	CPD Certificate
	London School of Business and Administration	Life Cycle Assessment in Construction	CPD Certificate
	RIBA Academy	Designing for Circularity	CPD Certificate
	RIBA Academy	Sustainable Architecture	CPD Certificate
	RICS	An Introduction to Sustainability in the Built Environment	CPD Certificate
	RICS	Certificate in Whole Life Carbon Assessment Training Programme	CPD Certificate
	RICS	Global Introduction to Whole Life Carbon Assessment	CPD Certificate
	RICS	Residential Retrofit	CPD Certificate
	RICS	Sustainable Real Estate: Creating a Better Environment	CPD Certificate
	UKGBC	Writing Whole Life Carbon Assessment Reports in Built Environment	CPD Certificate
	UWE Bristol	Sustainability in the Built Environment	CPD Certificate