

Embedding and scaffolding students' digital capability development

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Who Are We?

- **Dr Heather Gray**
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Institutional Context

GCU Strategy 2020

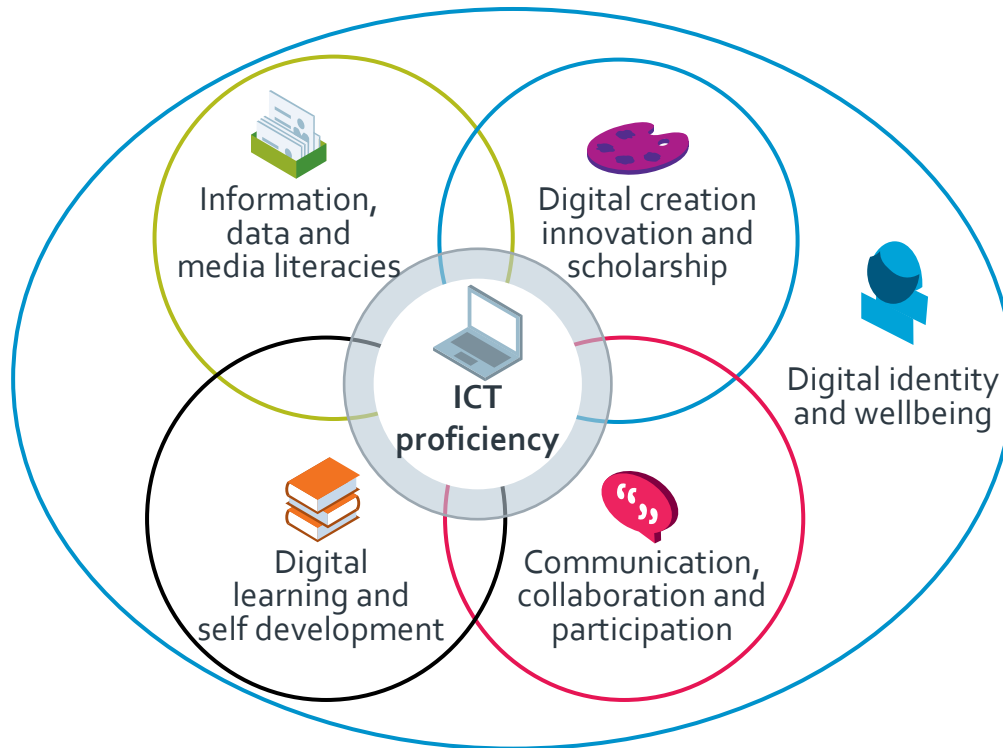
“We aim to develop our digital education environment and **expand the use of learning technologies** to enhance the student experience, **support high-level digital literacy**, scale up our online and distance learning offerings, and increase the connectivity of our campuses and communities.”

Institutional Context

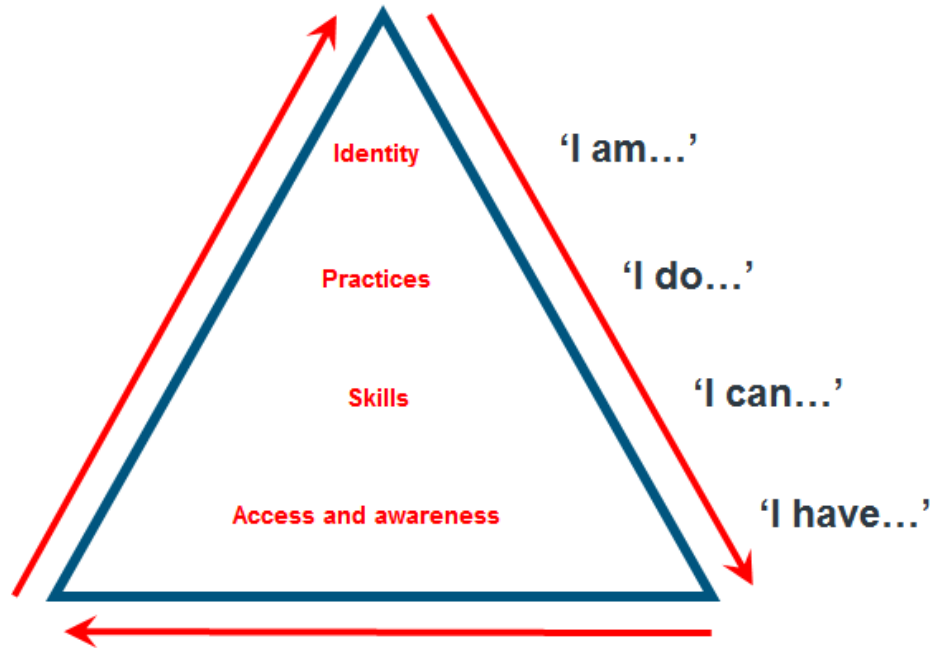
GCU's Strategy for Learning (SfL) 2015-2020

“The implementation of the SfL will be supported by the **extensive use of digital education and learning technologies** to enhance student engagement, accessibility, flexibility and personalisation of the curriculum. Learning, teaching and assessment need to be **embedded in a digital environment** across all programmes.”

JISC Digital Capabilities Framework (2017)



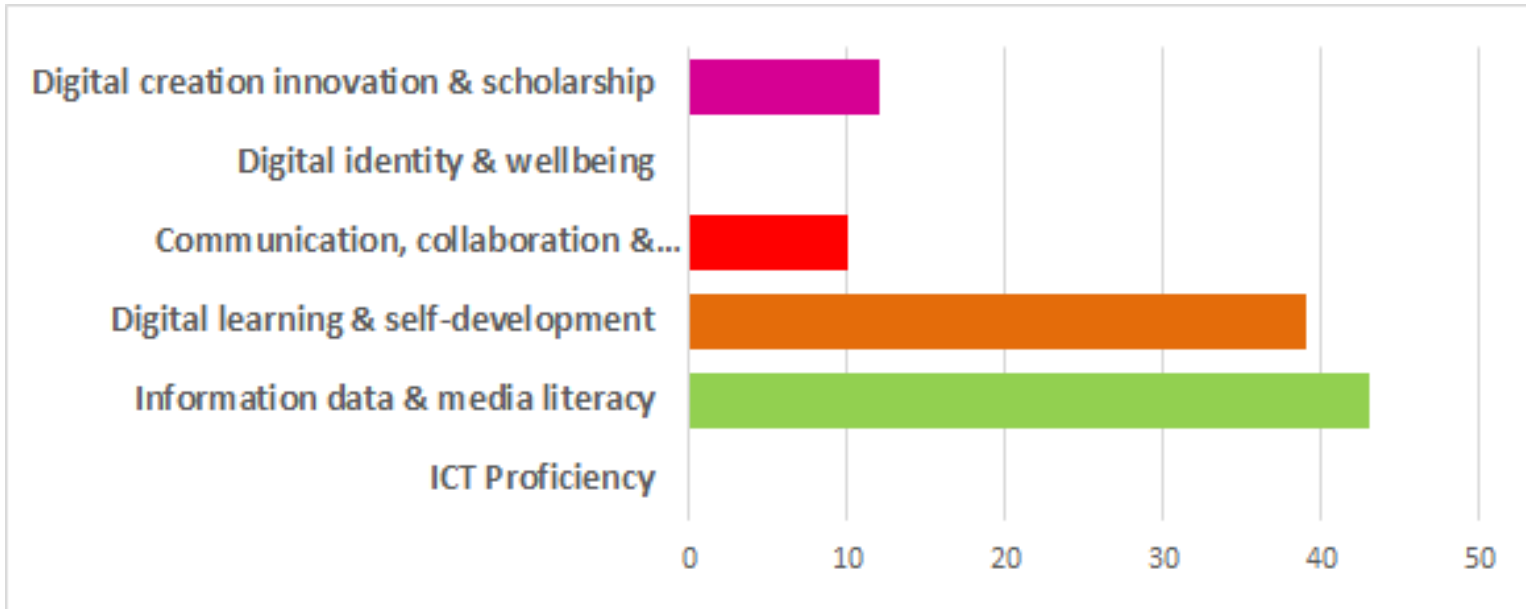
Digital Literacy Model (Beetham & Sharpe, 2010)



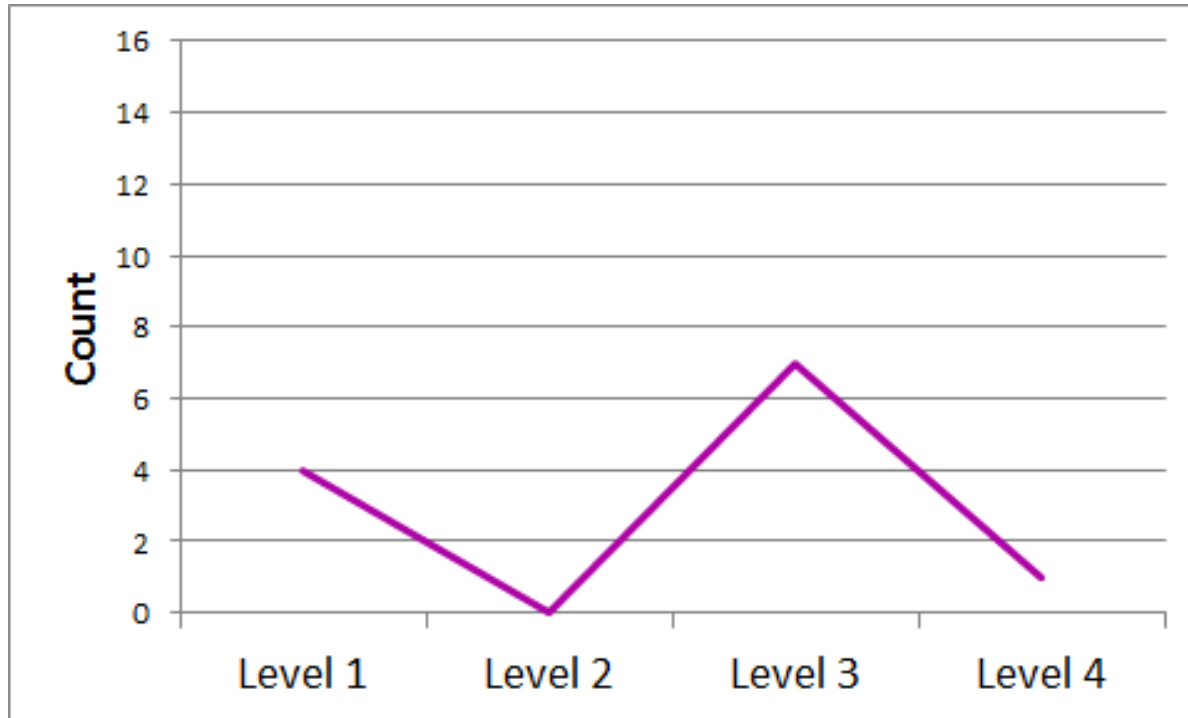
Mapping Process

Module	Theme	Digital Competency	ICT Prof	Info Data & Media Literacy	Dig Learning & Self Dev	Comm, Coll & Partic	Dig identity & wellbeing	Dig creation innov & scholarship
NMM	Accessing & viewing online content	Accessing and interacting with online presentations and workbook			1			
CPP	Creating wikis	Developing and accessing wikis on GCU learn				1		
NEURO	Creating wikis	Developing and accessing wikis on GCU learn				1		
NMM	Creating wikis	Developing and accessing wikis on GCU learn				1		
NEURO	Electronic survey completion	Completing SmartSurveys		1				
CPP	e-submission	Creating Turnitin/ similarity reports			1			
NEURO	e-submission	Creating Turnitin/ similarity reports			1			
NMM	e-submission	Creating Turnitin/ similarity reports			1			
NMM	Evaluating online content	Assessing quality and validity of online health literature		1				
CPP	Interactive online bulletin	Utilising Padlet and Socrative				1		
NEURO	Interactive online bulletin	Utilising Padlet and Socrative				1		

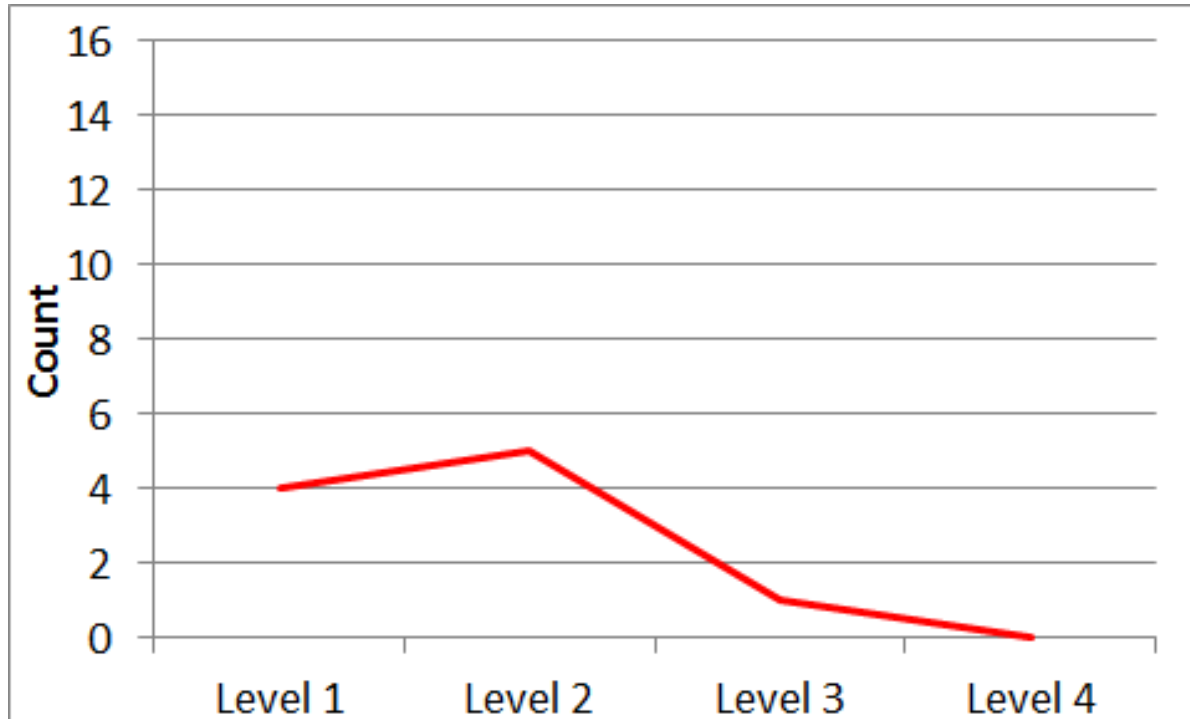
Outcome of Mapping Process



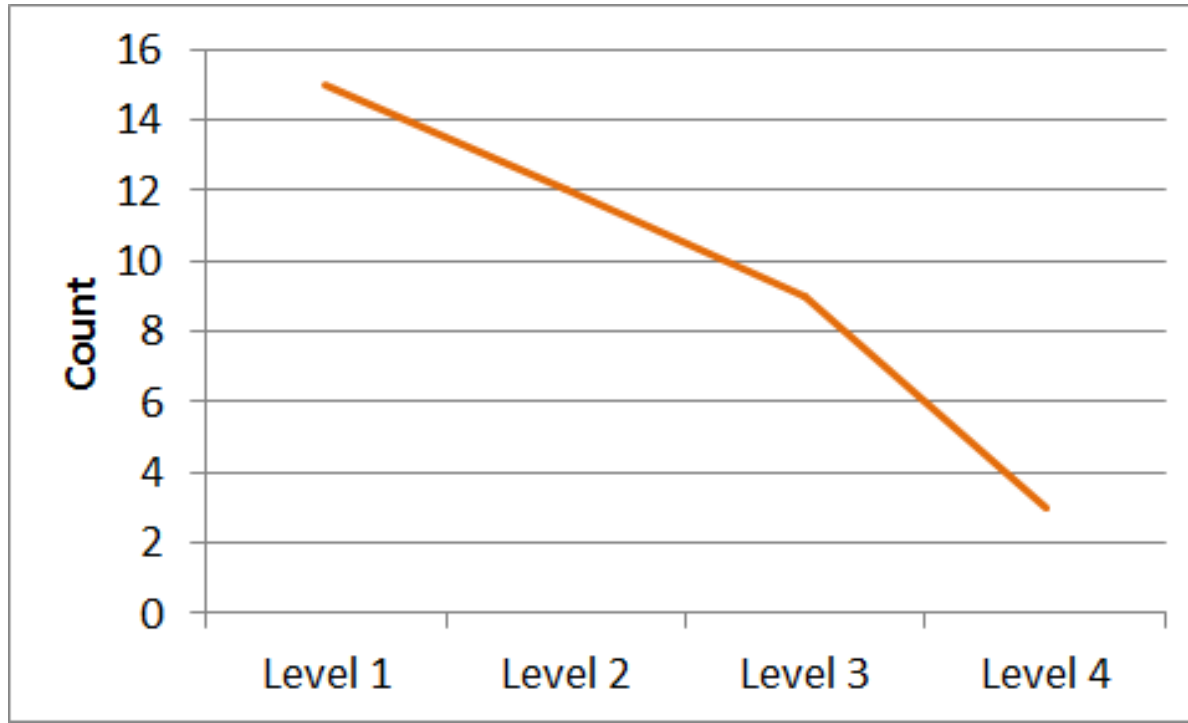
Digital Creation, Innovation & Scholarship



Digital Communication, Collaboration & Participation



Digital Learning & Self Development



Information Data and Media Literacy



Creation of Resource Library

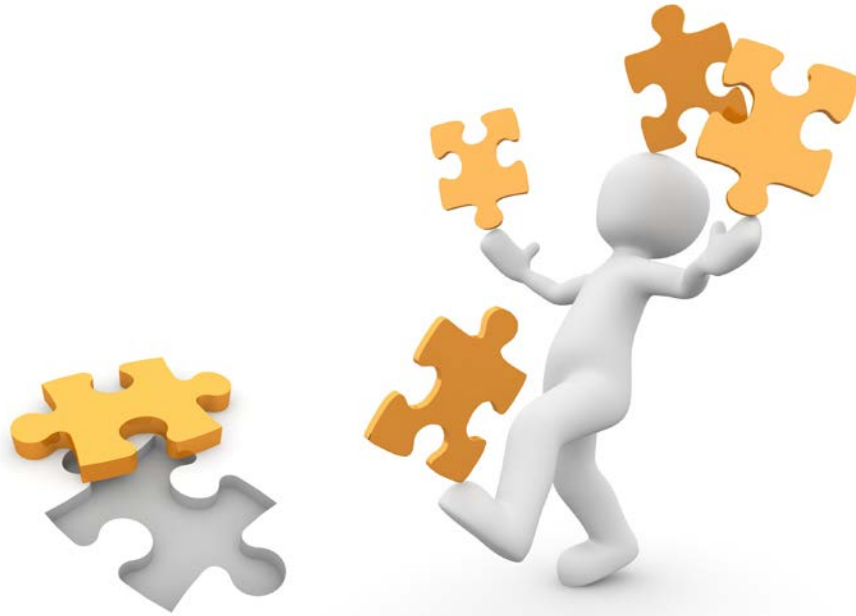
- Learning Development Centre [resources](#)
 - Presentations
 - Posters
 - Wikis
 - Spreadsheetsetc.
- Original software/ platforms [help pages](#)
- Other sources



Creation of Resource Library

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Session	Level	Module	Theme	Digital Competency	ICT Prof	Info Data & Media Literacy	Dig Learning & Self Dev	Comm, Coll & Partic	Dig identity & wellbeing	Dig creation innov & scholarshi P	unique	I have	I can	I do	I am	Resources
	1	HM: B AND PA	e-submission	Creating Turnitin/ similarity reports			1					1				
	1	HPPP	e-submission	Creating Turnitin/ similarity reports			1					1				
	1	MREP	e-submission	Creating Turnitin/ similarity reports			1									
	1	FUNDAMENTALS OF HUMAN PHYSIOLOGY	Evaluating online content	Recognising valid and trustworthy online resources		1							1			https://sites.google.com/site/ldgculearn/ict-skills/searching-the-internet
	1	HM: B AND PA	Interactive online bulletin board	Utilising Padlet				1					1			
	1	HM: A AND E	Creating PowerPoint presentations	PowerPoint presentation skills		1								1		https://sites.google.com/site/ldgculearn/ict-skills/presentations
	1	HM: B AND PA	Creating PowerPoint presentations	Creating PowerPoint presentations		1							1			
	1	HPPP	Creating PowerPoint presentations	Creating PowerPoint presentations		1							1			
	1	FUNDAMENTALS OF HUMAN PHYSIOLOGY	Searching electronic databases	Performing online database searches for basic information		1							1			https://sites.google.com/site/ldgculearn/ict-skills/searching-the-internet
	1	HM: B AND PA	Searching electronic databases	Accessing electronic databases (beyond Google Scholar)		1						1				
	1	MREP	Searching electronic databases	Accessing electronic databases (beyond Google Scholar)		1										
	1	HPPP	Social media	Using social media (Twitter)				1			1	1				
	1	HM: A AND E	Video creation, uploading & sharing	Digital video recording and editing						1	1		1			
	1	HM: A AND E	Video creation, uploading & sharing	Creating, uploading & sharing YouTube videos						1	1		1			https://support.google.com/youtube/answer/57407?hl=en-GB
	2	CPP	Accessing & viewing online	Accessing and watching videos on You			1							1		

Have a go!



Moving Forward

- Include digital capabilities within module descriptors, e.g. learning outcomes & transferable skills (use of Bloom's digital taxonomy verbs)
- Ensure progression of digital capabilities levels 1-4
- Better alignment of assessment methods to scaffolded digital skills
- More creative assessment methods
- Encourage other programmes to adopt the mapping process
- Continuous collaboration with LDCs to enhance the resource library
- Closer collaboration with LDCs to better develop any embedded tailored session as needed
- Staff development needs++

Recommendations

- JISC's Digital Capabilities Framework is useful for mapping
- Explicit digital skills should be outlined within module descriptors
- ePortfolio of skills is recommended
- Students should [evaluate](#) their digital capabilities
- Staff evaluate using [JISC's Discovery Tool](#)
- Set up a resource library
- Staff and students need access to Digital Education specialists (available in the LDCs)

Links

- Beetham and Sharpe, 2010, Digital literacy model
<https://www.jisc.ac.uk/full-guide/developing-digital-literacies>
- Jisc & Beetham 2017 Digital Capabilities Framework
<https://www.jisc.ac.uk/rd/projects/building-digital-capability>
- Jisc Digital Capability Discovery Tool,
<https://discoverytool.jisc.ac.uk/discovery-tool/57f5af9013b67a9a177f2ff1/intro>
- SCQF Level Descriptors
<http://scqf.org.uk/wp-content/uploads/2014/03/SCQF-Revised-Level-Descriptors-Aug-2012-FINAL-web-version1.pdf>
- Blooms Digital Taxonomy
<https://gdcf-0916001bcltd.netdna-ssl.com/wp-content/uploads/2015/06/blooms-poster-copy.pdf>