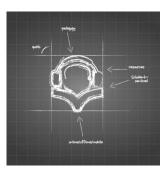


## Overview

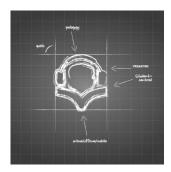


- Why we developed LD at the OU
- Benefits of LD
- Our approach & Tools
- Examples of application
- Some tools for you to try

### What is Learning Design?



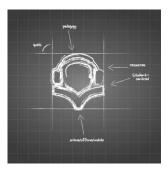
### Learning design – what is it?



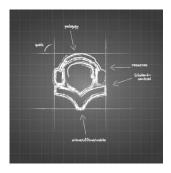
- "the practice of planning, sequencing and managing learning activities, usually using ICT-based tools to support both design and delivery." – JISC Design Studio
- Applicable at all levels of learning: activity, unit, module, curriculum, qualification...

## The design approach

- Analogous to software design
- Take a user perspective
- Make design decisions explicit



### The approach

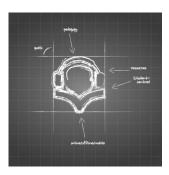


- The use of design 'views'
- Mechanisms to encourage the sharing and discussing of learning and teaching ideas
- The development of tools to help guide the decision-making process

### Why did we adopt it?

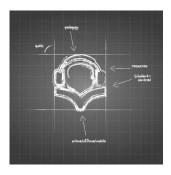


## Aim



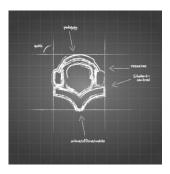
#### To aid the course design process by providing a set of tools that support a student-activity based approach

# Drivers for change



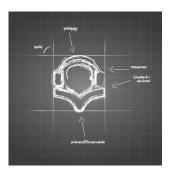
- New technologies, pedagogies are available,
- The process of course design and specification is inconsistent across the uni
- Best practice is not well shared
- Current design focus is centred on content and delivery rather than student experience

### Design context at the OU



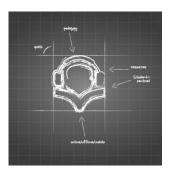
- Creating a course was becoming more complex
- Staff agreed that there was a need for clearer methods of representing the structure and key content/components of a course
- Belief in educational potential of ICT but confidence that this potential would be realised was weaker
- Many staff felt overwhelmed by the challenge of integrating ICT in courses

# How LD supports design processes



- Introduced a consistent, structured design, specification and review process
- Provides a set of simple tools
- Reveals the costs and performance outcomes of design decisions
- Puts student activity at the focus of the design process
- Shared language for team
- Enables the sharing of best practice
- Supports faculty teams in choosing and integrating a range of media, technologies and pedagogies in OU offerings
- Tool to support Innovation eg MOOCs

# Activity



- Think of 1 or 2 ways to ruin an online/blended course
- Post in chat
- (Can be from your own experience or not!)

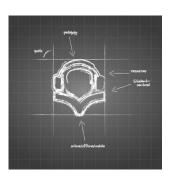
• What do these tell us?

### Our approach



# Products

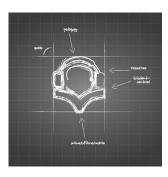
- Activity Planner
- Range of activities
- Tools



- Paper pack
- Software tools
- Exemplar library
- Staff support process



# Positive impact across design roles



"From a Curriculum Managers point of view, it's definitely been positive. It's definitely helped me with getting involved with the whole module [...] I don't think there has been more work for me to do apart from those early workshops which is not much to be involved in, just half a day each and I've definitely benefited from it "

#### **Curriculum Manager 2011**

"...the workshops then meant that the regular team meetings started from a different point. We didn't have to go over some of that ground in subsequent team meetings [...] one of the difficulties I have witnessed in other modules is where the thinking hasn't really be made explicit, so therefore you have to spend a lot of time checking what you all as a team think and where you are heading [...] whereas it feels like with the early thinking that has been done, we can make the subsequent learning decisions more quickly"

#### Module team chair 2011

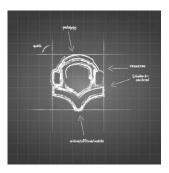
"What I want to do is to reinforce the case that this thinking in front has got benefits both pedagogically and financially, and that at the end of it all the student experience [is better]"

#### AD L&T 2011

*"I think Learning Design will revolutionise the way we work"* 

#### PVC L&T 2013

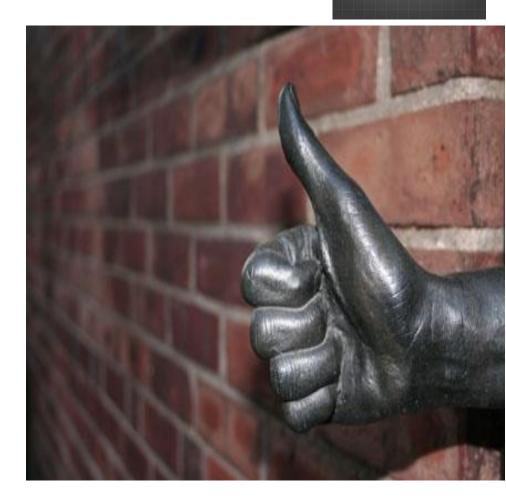
### Principles



- Pedagogy neutral
- Start with student activity
- Integrate into standard practice
- Encourage innovation & creativity
- Facilitate the production process

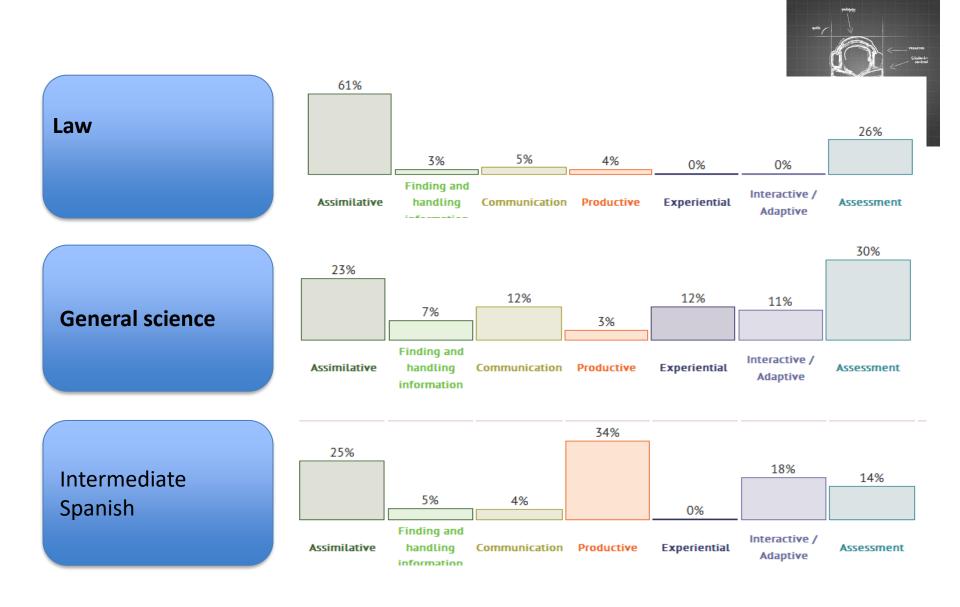
### A standard framework allows

- Sharing of good practice
- A conduit for other teaching related projects
- Quality audit
- Review

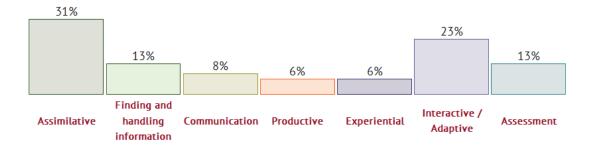


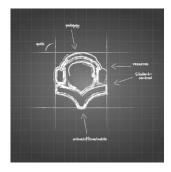
Assimilative	e.g. Read, Watch, Listen, Think about, Access, Observe, Review, Study
Finding and handling information	e.g. List, Analyse, Collate, Plot, Find, Discover, Access, Use, Gather, Order, Classify, Select, Assess, Manipulate
Communication	e.g. Communicate, Debate, Discuss, Argue, Share, Report, Collaborate, Present, Describe, Question
Productive	e.g. List, Create, Build, Make, Design, Construct, Contribute, Complete, Produce, Write, Draw, Refine, Compose, Synthesize, Remix
Experiential	e.g. Practice, Apply, Mimic, Experience, Explore, Investigate, Perform, Engage
Interactive/ Adaptive	e.g. Explore, Experiment, Trial, Improve, Model, Simulate
Assessment	Include summative (graded) assessment only here e.g. Write, Present, Report, Demonstrate, Critique

Topic/ week/ session	Assimilativ e	Finding and handling informatio n	Communica tion	Productive	Experientia I	Interactive/ Adaptive	Assessment
1	7	1		2			
2	6	1	1	2			
3	4					1	5
4	7			2			
5	7	1		2			
6	7	1		2			
7	7	1		2			
8	7	1		<sup>19</sup> 2			



#### Some examples

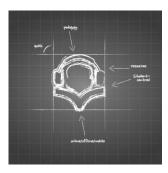




#### LD as means of addressing

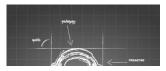
- Retention
- Workload
- Social media
- Open educational resources
- Diversity and inclusion
- Students as creators, etc

# Analytics informs the design of new curriculum



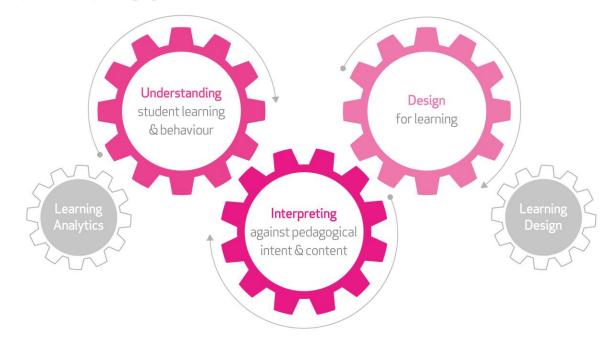
Design data is combined with student satisfaction and performance data to identify the design features that appear to impact most commonly on student experience across the curriculum



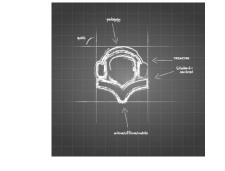


#### Virtuous circle of Learning Analytics and Learning Design

Translating analytics into pedagogical action

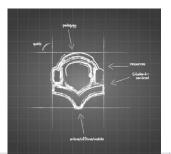


The Open University



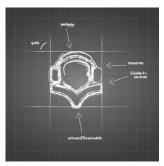
Example of analytics - Mapping Student Workload

- Initial workload mapping of 11 modules
- Mapping took place using the Learning Design taxonomy
- Times were estimated per activity to calculate workload per week



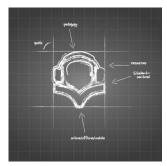
#### Mapping Student Workload

A	В	С	D	E	F	G	Н	1.1	J	K	L	М	N	0	Р	Q	R	S				
1	BLOCK 1																					=
2			End of					Assimila	•				FHI	Comm.	Prod.	Exper.	Int/Adap.	Assess.	Assimilative	Total	Cumulative	Week
3	Item	Section	week	Word count	Figures (no.)	Photos (no.)	Tables (no.)	Equs. (no.)	ITQs (no.)	Audio (Mins)	Video (Mins)	Other (Mins)	(Mins)	(Mins)	(Mins)	(Mins)	(Mins)	(Hrs)	Total (Hrs)	(Hrs)	time this week (Hrs)	no.
4	Module Guide			4597	3		(110.)	(110.)	(110.)	(wiins)	(wiiiis)	(winis)							1.34	1.34		1
	Study Guide week	1		1840	-														0.44	0.44		
5 6 7		Section 1		1650		4													0.53	0.53		
	TGF activity													60						1.00	3.31	1
8	Book 1	Section 2		6270	4	9													2.13	2.13	5.44	1
9	Activity 1.1											10							0.17	0.17	5.60	1
10	Activity 1.2														10					0.17	5.77	1
11	Activity 1.3														10					0.17	5.94	1
12	Activity 1.4														10					0.17	6.10	1
13	Activity 1.5														10					0.17		1
14	Interactivity 1.1											10							0.17	0.17		
15	Interactivity 1.2									7					10				0.23	0.40		
16	Activity 1.6											10							0.17	0.17		
17	Activity 1.7											10							0.17	0.17		
18	Interactivity 1.3									9					10				0.30	0.47		
19	Interactivity 1.4										1				10				0.05	0.22		
20	Interactivity 1.5										8								0.40	0.40		
21	Activity 1.8												10							0.17		
22	Activity 1.9												10							0.17		
9       10       11       12       13       14       15       16       17       18       19       20       21       22       23       24       25	Study Skills											60							1.00	1.00		
24	Good academic pra											30							0.50	0.50		
25	Ground rules for fo		X	353															0.08	0.08		
26	Study Guide week	2		1735															0.41	0.41	0.41	2 🚽



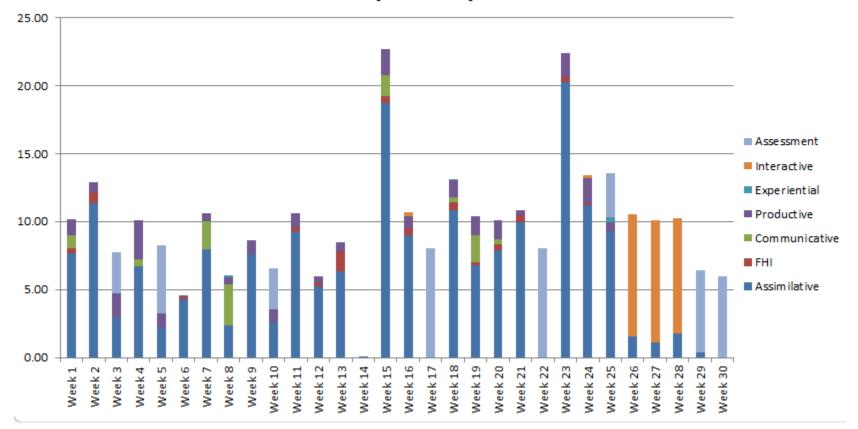
#### Student workload in the Online Learning Design Tools

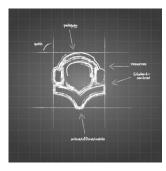
** Module Summary		→I Learning	) Outcomes	Activity	Planner	📕 Module	2 Мар	💾 Design	n Log						
Hours spent undert	Hours spent undertaking each type of activity														
Topic, block or theme		Assimilative	Finding and handling information	Communication	Productive	Experiential	Interactive / Adaptive	Assessment	Total hours						
Meek 1	→I	5.33 🌶	hours 🥖	0.5 🖊	0.72 🌶	hours 🥒	hours 🌶	hours 🖌	6.55 🗕						
Week 2	→I	9.5 🌶	0.5 🖊	0.5 🖊	0.46 🖉	hours 🥒	hours 🖉	hours 🖌	10.96 🗕						
Week 3	→I	2.74 🌶	hours 🌶	hours 🖌	0.7 🖌	hours 🥒	hours 🥒	0.5 🖌	3.94 🗕						
∎ Week 4	→I	5.24 🥒	hours 🥖	0.33 🖌	0.95 🖌	hours 🥒	hours 🥒	hours 🖌	6.52 😑						
Meek 5	→I	2.42 🌶	hours 🥖	hours 🥖	0.31 🖊	hours 🥒	hours 🥒	5 🖊	7.73 😑						
∎ Week 6	→I	3.7 🌶	0.25 🌶	hours 🥒	0.33 🥒	hours 🌶	hours 🥒	hours 🥒	4.28 😑						
Week 7	→I	6.42 🌶	hours 🥒	1.5 🥒	1.16 🥒	hours 🌶	hours 🥒	hours 🥒	9.08 😑						
Meek 8	→I	1.68 🥒	0.25 🥒	0.25 🥒	0.34 🥒	0.17 🥒	hours 🥖	hours 🥖	2.69 👝						



#### Student Workload weekly chart

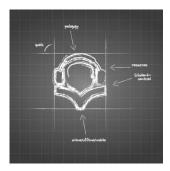
Study hours by week



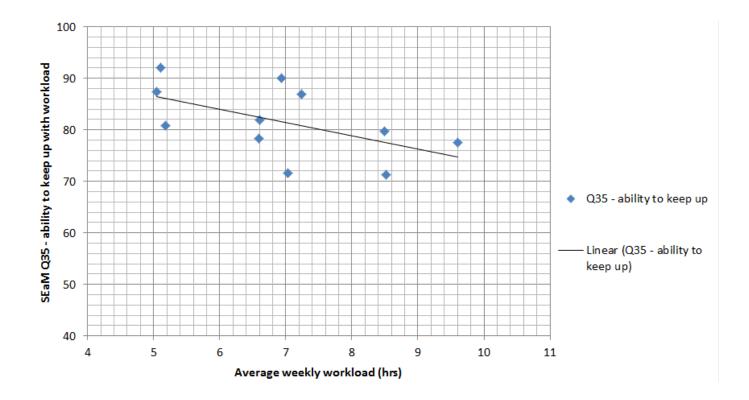


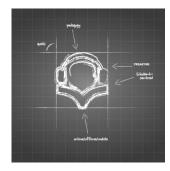
#### Mapping Student Workload

	average weekly	Workload	Q35 - ability to		
Module	workload	spread	keep up	Completion (all)	Pass (all)
AA100	6.93	2.19	90.1	69.8	67.4
B120	5.05	2.56	87.4	62.1	58.4
B122	6.6	3.37	81.9	61.5	58.6
BU130	7.03	2.35	71.6	60.1	49.2
L120	5.18	1.02	80.9	68.2	66.5
LB160	6.59	2.17	78.3	62.3	59.5
MST124	9.6	4.25	77.5	44.3	39.7
S104	8.52	4.05	71.3	54.5	46.6
T174	7.24	2.91	86.9	63.6	62.2
U101	8.49	1.82	79.7	61.8	59.4
U116	5.1	1.4	92	75.7	74.7

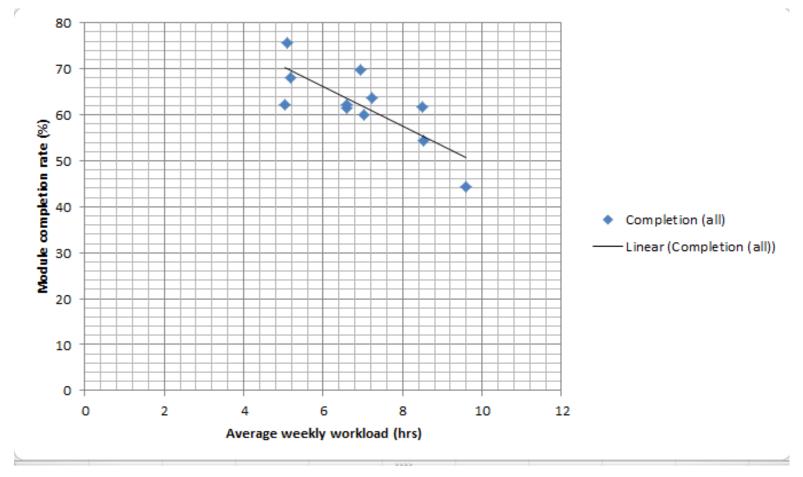


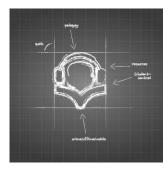
#### The impact of workload on ability to keep up



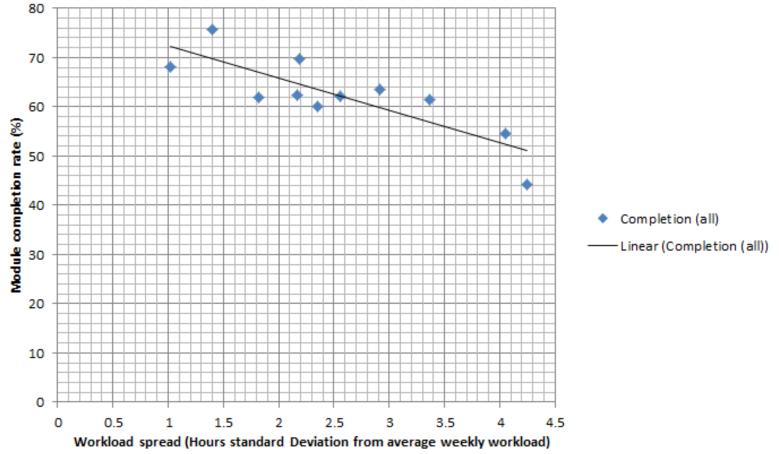


#### The impact of workload on completion





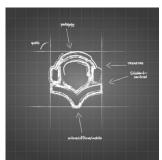
#### The impact of workload distribution on completion



#### Example – poor distribution of workload

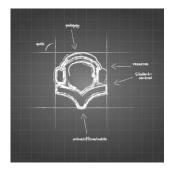
** Module Summary	→ Learning	Outcomes	Activity Pla	nner	Module M	lap I	🗂 Design Lo	og	Evaluation
Hours spent undertak	ing each ty	ne of activit	v						
Week	Assimilat	Finding and	d Communication	Productive	e Experiential	Interactive / Adaptive	Assessment		Total hours
II Week 1	→1 7.27	0.33 🥒	1	0.5 🥒	0.5 🥒	1	1	Avg: 6.63 9.60	StDv: 1.89 Hide Guides
	→1 6.58		1	0.33 🥒	1	-	-	7.08	-
🚹 Week 3	→1 4.76 🖌	1	/	1	/	/	0.5 🥒	5.26	-
💵 Week 4	<b>→I</b> 4.63 🌶	1 /	/	0.5 🥒	/	/	1	6.13	-
Meek 5	<b>→I</b> 3.08 🖋	1	/	/		/	2 🥒	5.08	-
💵 Week 6	<b>→I</b> 4.72 🖋	1	/	1	/	/	1	4.72	-
Meek 7	<b>→I</b> 5.4 🌶	/	/	0.25 🥒	/	/	0.5 🥒	6.15	-
Meek 8	→1 6.66 🌶	0.75 🥒	/	/	/	/	0.5 🥒	7.91	-
🚹 Week 9	→ 3.11 🖌	/	/	1	/	/	7.5 🥖	10.61	-
💵 Week 10	→1 5.76 🖌	1 /	/	0.67 🥒	/	/	0.5 🥒	7.93	-
III Week 11	<b>→I</b> 3.38 🖌	/	/	1.67 🥒	/	1.25 🥒	0.5 🥒	6.80	-
🕕 Week 12	→I 6.56 🖌	/	/	/		0.33 🥒	0.5 🥒	7.39	-
Meek 13	→1 3.86 🌶	/	/	/	/	/	2.5 🥒	6.36	-
Meek 14	→ 4.04 🖌	/	/	1.25 🥒	/	/	/	5.29	-
Meek 15	→ 4.01 🖌	/	/	0.67 🥖	/	/	0.5 🥒	5.18	-
💵 Week 16	→1 3.51 🖌		/	1.67 🥒	/	/	0.5 🥒	5.68	-
💵 Week 17	<b>→</b> 1 2.79 🖋	/	/	1 🥒	/	/	7 🥒	10.79	-

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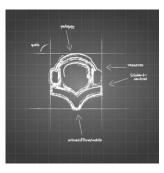
#### Example – balanced distribution of workload

** Module Summary	→	Learning O	utcomes	<ul> <li>Activity Pla</li> </ul>	anner	Module M	ap Ć	🗂 Design Lo	g 🕢 Evaluation	
Hours spent underta	aking	each type	of activity	1						
Week		Assimilative	Finding and handling information	Communication	Productive	Experiential	Interactive / Adaptive	Assessment	Total hours	
Meek 1	→I	2.61 🥒	1	1	2.61 🥒	/	1	0.67 🌶	Avg: 5.18 StDv: 1.02 Hide Guid	les 🗕
Meek 2	→I	1.24 🥒	/	/	3.65 🌶	/	/	0.25 🌶	5.14	-
Meek 3	→I	1.33 🥒	/	/	4.17 🥒		1	0.59 🥒	6.09	-
🕕 Week 4	→I	1.35 🥒	1	/	3.22 🥒	/	1	0.33 🌶	4.90	-
💵 Week 5	→I	0.72 🥒	/	/	2.72 🥒	/	/	2.42 🥒	5.86	-
III Week 6	→I	1.26 🥒	/	/	4.27 🥒	/	/	0.25 🥒	5.78	-
💵 Week 7	→I	1.47 🥒	1	/	3.77 🥒		1	0.49 🥒	5.73	-
Meek 8	→I	1.16 🥖	/	/	3.4 🥒		1	0.25 🥒	4.81	-
💵 Week 9	→I	1.3 🥒	/	/	3.11 🥒		1	0.25 🥒	4.66	-
💵 Week 10	→I	1.49 🥖	/	/	2.58 🥖		1	0.3 🥒	4.37	-
💵 Week 11	→I	1.53 🥒	/	/	3.4 🥒		1	0.65 🥒	5.58	-
💵 Week 12	→I	1.35 🥒	/	/	3.93 🥖		/	0.24 🥒	5.52	-
💵 Week 13	→I	1.3 🥒	/	/	3.51 🥒		1	0.33 🥒	5.14	-
Neek 14	→I	1.31 🥒	/	/	4.18 🥖		1	0.41 🥒	5.90	-
💵 Week 15	→I	0.72 🥒	/	/	2.18 🥒		1	3.08 🥒	5.98	-
💵 Week 16	→I	1.07 🥒	1	/	2.68 🥖		1	0.48 🥒	4.23	-



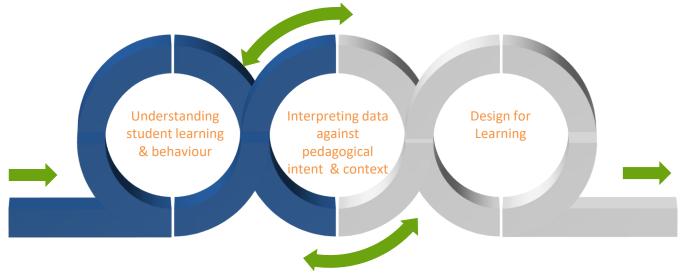
#### Action taken by module

- Informed tutors of distribution of workload in the module
- Simple message to students on 'busy' and 'quiet' weeks
- Moved workload to reduce workload in block 1



#### **ict** Translating Analytics into Pedagogical Action

How Learning Analytics and Learning design may work together to provide better understanding and evaluation of pedagogical intent in context.

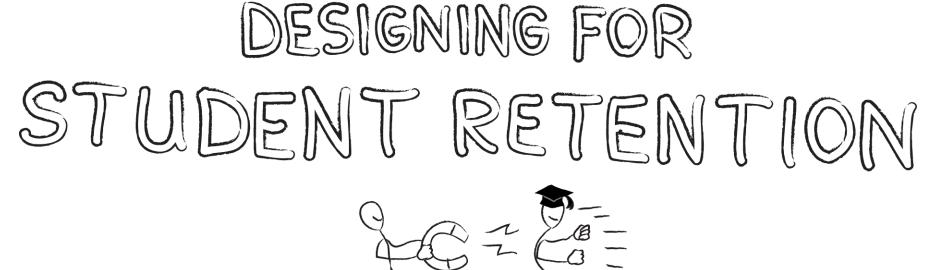


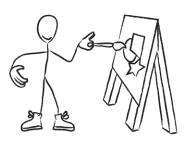
#### **Learning Analytics**

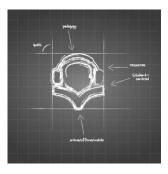
Triangulation of various data and information sources to gain holistic view of complex variables related to learning design. Strengthen links between learning analytical and learning design, module content and student behaviour.

#### **Learning Design**

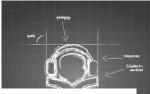
Case studies: work with Data Wranglers & Rebecca Galley's team (LTD) to support CAUs improving module design and student learning.



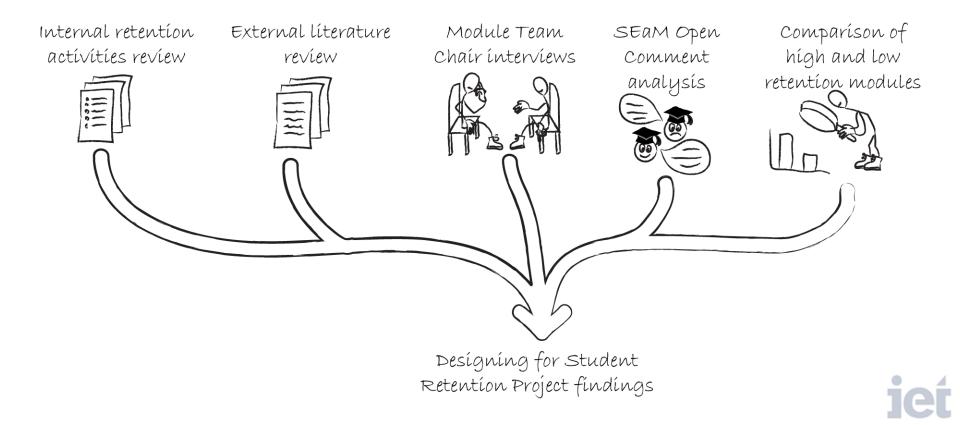


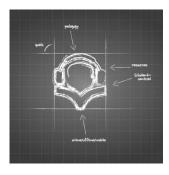


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METHODOLOGY









ightarrow Lack of clear definitions around retention and mixed terminology

Predominant emphasis on post-design interventions to support retention

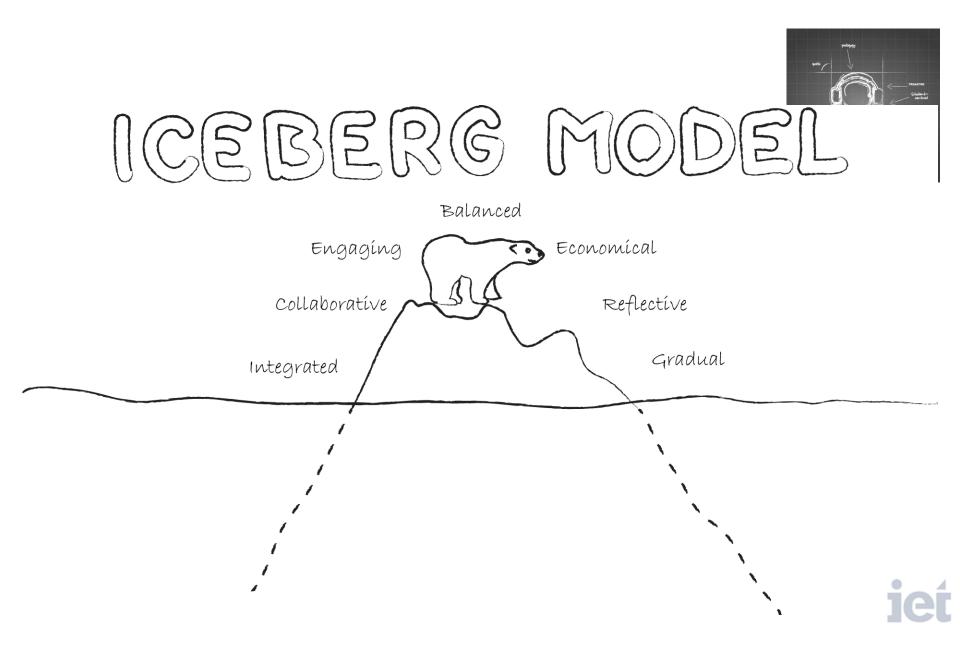
ightarrow Some emphasis on workload, assessment design and tuition



Module Team Chair interviews Some MTCs focused on outcomes of good design, others on design process
 Effective engagement of students through interesting materials regularly mentioned
 Different MTCs focused on different design aspects and none had overall overview

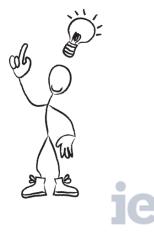


- -> Most commonly mentioned factor was out-of-date materials
- > Next most commonly mentioned factor was importance of engaging materials
- Other factors included alignment between content and assessment, usefulness of SAQs and formative assessment





- 1 Engage students early on in the module and make sure the first few weeks of study materials draw students in
- 2 Look for potential retention blackspots and address these as far as possible
- 3 Monitor workload during production and conduct a final workload check before handing over to LTS
- **4** Make sure all materials, resources and media are easy to access by students and minimise usage complexity
- 5 Effectively break modules up in shorter chunks and explore ways of rewarding students for completing each





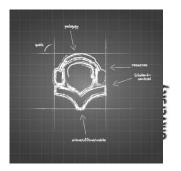
- 6 Build in sufficient opportunities for self-assessment and formative assessment
- 7 Make assessment relevant, interesting, challenging and perhaps even fun
- 8 Make sure the study planner is broken up on a week-by-week basis
- 9 Build study, revision and assessment skills throughout the module and qualification
- 10
- Build in sufficient reflection and revision time to enable students to consolidate their learning and prepare for assessments



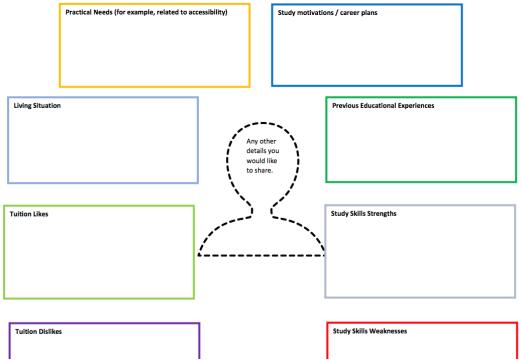
#### Some tools



#### Personas

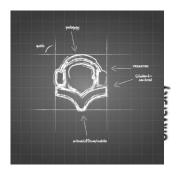






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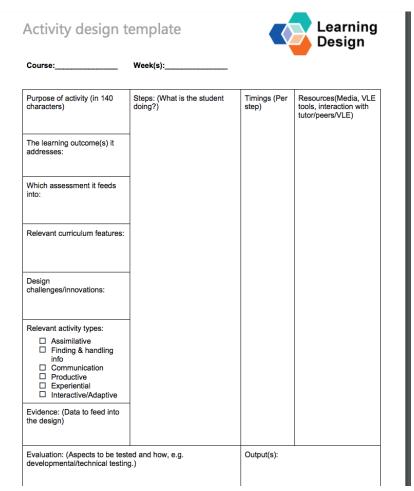
## **Activity Planner**



MODULE TITLE								
Weeks / Topics	Learning outcomes and skills	Assessment	Communicative	Finding and handling information	Productive	Experiential	Interactive/adaptive	Assin
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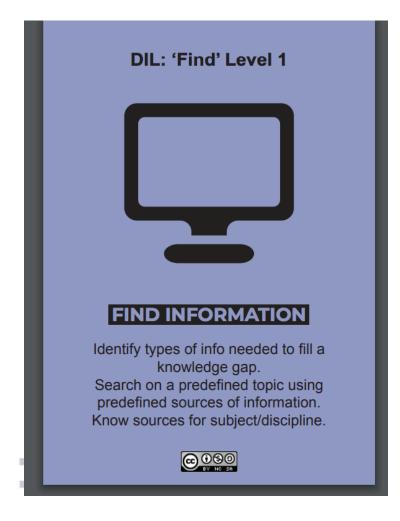
## Activity design



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http://www.open.ac.uk/blogs/learning-design/wp-content/uploads/2020/07/Activity-design-template.pdf

## Cards



Academic skills Digital Information Literacy Employability

At UG Levels 1-3 & PG

Range of activities



#### Resources

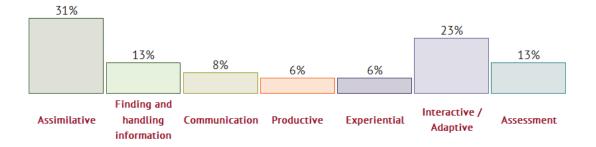
Design approaches to:

- Collaborative activities
- Employability
- Retention
- Inclusive curriculum
- Active learning





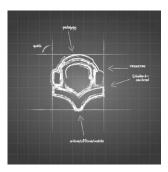
### To consider/discuss



### Academic concerns

- It restricts innovation
- It is just another bunch of forms
- These categories don't suit my subject
- Telling me how to design courses...

# Online pivot



- Physical architecture does a lot of work
- This needs to be designed in explicitly online
- LD is a means to achieve this
- Cost/resource issues
- Team vs individual
- Levels of LD
- Getting from here to there...