No.	Project	Call	Ref	Project Leader(s)	Project Title	Theme(s)	Keywords	Module(s)	School(s)/	Other staff involved	Other eSTEeM projects as PL	Start date	Estimated end
	call	date						involved	Unit(s)				date
1	15	Jul-19	19J-AA-CC-01	Adeola Adeliyi	Pair Programming as a tool to enhance	Technologies for	Pair Programming, remote pair	TM112, TM129,	C&C	Michel Wermelinger		Oct-19	Mar-22
					teaching and learning of programming at a	STEM learning	programming, extreme	M250, M269		(C&C), Jon Rosewell			
					distance_		programming, teaching			(C&C) and Karen Kear			
2	18	lan-21	211-FACH-FFFS-	Fiona Aiken and	Evaluation and improvement of print	Equality diversity	Print pack disability SiSE	\$112 \$XE206	FFFS	(CaC)	Student development and percentions of employability	Oct-21	Oct-23
~	10	5011 22	02	Chris Hutton	packs use for Environmental Science	and inclusion - APP	reasonable adjustment, accessibility	S397, SDT306	2225		skills in stage 1 science	00021	000 25
					students		, , ,						
											Aiken joint PL - Typical Support Seeking Behaviour of		
											STEM Students, their Outcomes and Successes		
											Hutton joint PL - Unline peer mentoring at scale: Benefits and impacts from a student huddy perspective		
											benefits and impacts from a statent baday perspective		
3	18	Jan-21	21F-MA-CC-01	Mustafa Ali	Decolonising Computing: A Resource for	Equality, diversity	Decolonisation, decolonial	TM353, TM359	C&C	Magnus Ramage, Ray		Jun-21	Nov-22
					Educators	and inclusion - APP	computing, history of computing,			Corrigan, Clem Herman			
							computing pedagogy, inclusive			and Steve Walker (C&C)			
							curriculum						
4	2 AL	Mar-20	20G-CB-MS-01	Col Blundell	Investigation into running course specific	Equality, diversity	Offender learner, prison, vulnerable		M&S	Katie Chicot and Andrew	Joint lead - Blended tutorials in Mathematics:	Jul-20	Dec-22
					students		recruitment, widening participation			Forter (Mas)	simultaneous r2r una onnne leanning events		
					Statence		in STEM, EDI, gender						
5	13	Jul-18	18K-DB-CC-01	David Bowers	Evaluation of service management	Employability	Gamification, simulations,	TM254	C&C	Matthew Nelson (C&C)		Nov-18	Dec-21
					simulation activities		communication skills, service						
c	2.41	Max 21	2111 MR 51 01	Martin Drawn	Investigating how to enhance the idea	Cupporting students	management, team working	T452 T460	F 9 1			Aug 21	Iul 22
0	5 AL	IVIdI-21	210-100-01	IVIdI UII DI dUII	generation process by students for their	supporting students	capstone project, student	T802 and T847	EORI			Aug-21	Jui-22
					T452 project		experience, project and professional						
							skills						
7	18	Jan-21	21D-	Carol Calvert,	Developing student use of feedback on	Supporting students	Student views, using TMA feedback,		M&S & C&C	Charly Lowndes, Tricia	Calvert - Implementation of lessons learnt from	Apr-21	Sep-22
			CCCMCCPRW-	Clare Morris,	their marked TMAs		correspondence tuition, improving			Terndrup, Jo Smedley	students who succeed "despite the odds"		
			MSCC-01	Colette Christensen and			student understanding, growing			and Jason Verrall (ALS)	Calvert - Early start M140		
				Pat Ryser-Welch			connucite				curvert - Eury start m140		
											Calvert joint PL - MU123 & M140 Early start: 18J		
											Calvert - Usage of Early Alerts Indicators on two level 1		
											modules		
											Calvert joint PL - How one module can serve multiple		
											qualifications through tailored implementation of		
											presentation		
8	12	Jan-18	18E-ACMJAMG-	Anne Campbell, Mark Jones and	Perceptions, Expectations and Experience	Supporting students	Tuition, group tuition, tuition policy,	5111, 1192, T102 SM4122	Academic Sopricos SBS and		Perceptions, Expectations and Experience of Group	May-18	Jan-22
			A331 3E1 01	Anne-Marie	understanding amongst stakeholders (part		attitudes, student perceptions.	1155, 510125	E&I		stakeholders		
				Gallen	II: the student perspective)								
											Campbell joint PL - Accessibility and inclusion in tuition		
											(AccIT)		
											lones - Developing practice in online synchronous		
											tuition by peer observation, feedback and reflection		
											Jones - Unline Team Investigations in Science (UTIS)		
											Joint PL - Evaluation of Assessment and Tuition Changes		
											for S284 Astronomy		
											Gallen joint PL - Evaluating the level 1 engineering		
											tutors resource		
											Collegia (stat D) - Fraternia (st. 1)		
									1		Gallen Joint PL - Factors influencing female		
1											Programmes		
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9	17	Jul-20	20K-AC-SPS-01	Alan Cayless	Using Learning Logs in SXPS288 — Effectiveness in helping students to reach. Learning Outcomes, to enhance and document their employability skills, and raise awareness of opportunities in the space sector	Employability	Employability, Learning log, Learning outcomes, Skill development, Self awareness and achievement	SXPS288	SPS	Arabella Nock (AS)		Nov-20	Feb-22
10	18	Jan-21	21D-PCFA- STEMDEEES-01	Paul Collier and Fiona Aiken	Typical Support Seeking Behaviour of STEM Students, their Outcomes and Successes	Equality, diversity and inclusion - APP	Student Success, Support Models, APS Characteristics		STEM Deanery and EEES		Aiken joint PL - Student development and perceptions of employability skills in stage 1 science Aiken joint PL - Online peer mentoring at scale: Benefits and impacts from a student buddy perspective	Apr-21	Mar-22
11	15	Jul-19	20A-TCSD- KMIEEES-01	Trevor Collins and Sarah Davies	Disseminating inclusive field teaching — sharing resources and practices across disciplines and institutions	Equality, diversity and inclusion	Inclusive teaching and learning; fieldwork education; scholarship translation; scholarship impact	5206, S209	KMI & EEES	Tom Argles (EEES)	Collins joint PL - Assessing The 'Open Field Lab': Evaluating Interactive Fieldcasts for Enhancing Access to Fieldwork Davies joint PL - Geospatial technologies in distance learning and teaching in Science Davies joint PL - Hybrid/Digital Networked Learning scruffy mongrel or sleek new breed? Practices and implications of blending physical and digital resources for learning in HE Davies - Place-making and student identity in fieldwork learning Davies - Embedding research into teaching: practices, motivations and impacts Davies - Investigating Barriers and Inclusive Messaging around Fieldwork Learning in the Earth, Environmental and Ecological Sciences	Jan-20	Jun-22
12	17	Jul-20	20L-CC-EI-01	Chris Corcoran	Barriers and enablers to higher education: the experiences of disabled students from minority cultural backgrounds	Equality, diversity and inclusion - APP	BAME, disability, inclusion, widenin participation, values	g U116	E&I			Dec-20	Dec-21
13	12	Jan-18	18F-ECNCKB- LHCSSD-01	Eleanor Crabb, Nick Chatterton and Kate Bradshaw	Developing responsive approaches to. enhance personalized learning in selected LHCS modules.	Technologies for STEM learning	Personalised learning, teaching assets, media, video, Camtasia, screencasts, Adobe Connect, online best practice guide,		LHCS and STEM Deanery	Karen New (LHCS), Ray Jones and Peter Cains (ALS)	Crabb - Online remate experiments in chemistry- analysis of delivery, assessment, tracking and student perception Crabb Joint PL - Improving success and satisfaction of credit transfer students entering L3 modules in Science Crabb Joint PL - Online Summer Schools Crabb Joint PL - Understanding how our assessment contributes to retention and awarding gaps for black students on LHCS modules Chatterton joint PL - Online Chemistry Support Clinics	Jun-18	Dec-21

14	14	Jan-19	19E-ECJI-LHCS- 01	Eleanor Crabb and Jane Loughlin	Improving success and satisfaction of, credit transfer students entering 13 modules in Science	Supporting students	Credit transfer, level 3, student support, distance learning, transition		LHCS	Catherine Halliwell (AL) Tanya Noon (AS), Clare Dum (AS) and Elaine Walker (AS)	Crabb joint PL - Developing responsive approaches to enhance personalized learning in selected LHCS modules Crabb joint PL - Online remote experiments in chemistry - analysis of delivery, assessment, tracking and student perception Crabb joint PL - Online Summer Schools Loughlin joint PL - Early Start S294: evaluation Loughlin joint PL - Understanding awarding gaps for disabled and black LHCS students at Level 1	May-19	Dec-21
15	16	Jan-20	20E-SDLW-LHCS- 01	Sarah Daniell and Lorraine Waters	Evaluation of D-flag students accessibility to and use of online tutorials and forums in L2 modules	Equality, diversity and inclusion	Online tutorials, forums, participation, disability, accessibility	SK299, S294	LHCS	Kate Fox (AL)		May-20	Apr-23
16	19	Jul-21	21K-SD-EEES-02	Sarah Davies	Embedding research into teaching: practices, motivations and impacts	Supporting students	Research-teaching nexus; student engagement; environmental science	U116, S112, S/XF206, S397, SDT306, SXE390	EEES	Phil Holden and Kadmie Maseyk	Joint PL - Geospatial technologies in distance learning and teaching in Science Hybrid/Digital Networked Learning scruffy mongrel or sleek new breed? Practices and implications of blending physical and digital resources for learning in HE Joint PL - Disseminating inclusive field teaching – sharing resources and practices across disciplines and institutions Place-making and student identity in fieldwork learning Investigating Barriers and Inclusive Messaging around Fieldwork Learning in the Earth, Environmental and Ecological Sciences	Nov-21	Apr-23
17	19	Jul-21	21K-DKSKM-CC- 01	Dhouha Kbaler and Soraya Kouadri Mostefaoui	Analysis of COVID-19's impact on BAME students' attainment (A case study of Leve 1 C&C Open University modules)	Equality, diversity and inclusion - APP	BAME students, COVID-19, students' attainment, students' experience, enhancing tuition experience	TM111, TM112	C&C		Kouadri Mostéfaoui - Assessing 'alternative media' elements: is there a generic model? Kouadri Mostéfaoui joint PL - Visualising the code: are students engaging with programming at level 1? Kouadri Mostéfaoui joint PL - Supporting Degree Apprenticeship students: Tutors' and Students' perspectives Kouadri Mostéfaoui joint PL - Using Bitesize Videos to Enhance Students' Experiences in a Level 2 Programming Module Kouadri Mostéfaoui joint PL - Are You Ready for Your Studies - Are we Assessing Students Readiness? An evaluation of the usefulness of the Level 2 ARFY quizzes Kouadri joint PL - Modern Container-based Learning Interface and Delivery Infrastructure (MCLIDI)	Nov-21	Apr-23
18	3 AL	Mar-21	21H-JDHK-EEES- 01	Jenny Duckworth and Harriet Kopinska	Challenges of assessment for a level 3 interdisciplinary module: an AL and student perspective	Innovative assessment	Assessment, learning outcomes, marking grids, tutor feedback, interdisciplinary	SDT306	EEES	Jennie Bellamy and Yoseph Araya (EEES)	Duckworth joint PL - Can an asynchronous student conference in Open Studio develop students' critical evaluation skills?	Aug-21	Dec-22
19	17	Jul-20	20K-FE-MS-01	Fadlalla Elfadaly	Using knowledge from Associate Lecturers in a Bayesian model to predict the probability of students' results	Supporting students	Associate Lecturers, expertise, Predictive probabilities of success, Student feedback, Student satisfaction and retention	M140, M249, M347	M&S	Carol Calvert and Rachel Hilliam (M&S)		Nov-20	Dec-22

20	17	Jul-20	20K-MFMHTF- KMI-01	Miriam Fernandez, Martin Hlosta and Tracie Farrell	Understanding the BAME attainment gap at the OU by means of quantitative and qualitative data analytics	Equality, diversity and inclusion - APP	BAME attainment gap, learning analytics, pattern divergences, focus groups, qualitative understanding of root causes		КМі	Vaclav Bayer Venetia Brown	Hlasta - Disproved predictions of at-risk students: Some students fail despite doing well, others succeed despite predicted as at-risk	Nov-20	Feb-22
21	19	Jul-21	21J-CG-CC-02	Christine Gardner	Early Start for TM470 project students	Supporting students	Retention, progression, early support, tutor support	TM470	C&C	Michael Bowkis and Alexis Lansbury (C&C)	Analytics for tracking student engagement Joint PL - Are virtual insight visits an effective way of engaging learners and supporting student retention in distance learning environments?	Oct-21	Apr-23
22	18	Jan-21	21D-HGJRIGJW- LHCSEEES-01	Hannah Gauci, Julie Robson, Jon Golding and Janette Wallace	Impact of introducing new practical and dataset project options to the science undergraduate capstone project module. [\$390]	Equality, diversity and inclusion - APP	Practical project work, secondary data handling, accessibility, independent learning, undergraduate capstone science project.	5390, SXL390, SXE390	LHCS & EEES	Miranda Dyson (EEES), Vicky Taylor (LHCS), Clare Lawson (EES), Vikki Hayley-Mirnar (LHCS) and Lorraine Waters (LHCS)	Gauci joint PL - Assessing the effectiveness of the induction process for novice Associate Lecturers in the School of Life Health and Chemical Sciences in preparing them for the Associate Lecturer role Gauci joint PL - Evaluating a new STEM AL induction programme Gauci joint PL - Summer Series of Journal Clubs: an apportunity to develop employability skills and a sense of community amongst students in secure environments Robson joint PL - Online peer mentoring at scale: Benefits and impacts from a student buddy perspective Wallace joint PL - Assessing the effectiveness of the induction process for novice Associate Lecturers in the School of Life Health and Chemical Sciences in preparing them for the Associate Lecturer role Wallace - Evaluating student perspectives of different types of learning events provided on SDK228, a level 2 LHCS module	Apr-21	Jun-23
23	15	Jul-19	19J-NG-CC-01	Nigel Gibson	Do they know what they are doing? A review of IT use by prison-based students	Equality, diversity and inclusion	Study skills, offender learning, students in prison, supporting students, onscreen practice		C&C		Joint PL - Pair marking: Working together to improve our teaching	Oct-19	Dec-22
24	19	Jul-21	21K-NGKS-CC-01	Nigel Gibson and Kate Sim	Pair marking: Working together to improve our teaching	Innovative assessment	Marking efficiency, correspondence tuition, development, mentoring, induction	TM111	C&C		Gibson - Do they know what they are doing? A review of IT use by prison-based students	Nov-21	Oct-22
25	15	Jul-19	19J-DG-CC-01	Daniel Gooch	Teaching distributed computing using Raspberry Pi clusters at a distance	Technologies for STEM learning	Raspberry Pi cluster, distance learning, distributed architectures, parallel, CS education	TM111, TM112, TM129, M269	C&C	Mike Richards (C&C) and Jon Rosewell (C&C)		Oct-19	Jan-23
26	12	Jan-18	18E-AC-EI-01	Alec Goodyear	Evaluating the impact of a qualification based approach to student engagement and success in engineering study	Supporting students	Student success, engagement, progression, teaching quality assessments, TEF, assessment and tuition groups, personal development planning, professional skills, peer interactions		E&I	Carol Morris (E&I), Sally Organ (E&I), Zahra Golrokhi (E&I) and Maria Kantirou (CIO Portfolio)	Joint PL - Engineering residential school or home experiments? A comparison from the perspective of both the student and the tutor	May-18	May-22
27	18	Jan-21	21D-AGIIJKCMDS EI-01	Alec Goodyear, lestyn Jowers, Jan Kowal, Carol Morris and David Sharp	Engineering residential school or home experiments? A comparison from the perspective of both the student and the tutor	Supporting students	Engineering, residential schools, home experiment kits, practical skills, team-working	T176, T276	E&I		Goodyear - Evaluating the impact of a qualification based approach to student engagement and success in engineering study Morris joint PL - Understanding factors influencing BAME students' achievements within Engineering and Innovation	Apr-21	Dec-21
28	3 AL	Mar-21	21J-MGVC-LHCS- 01	Melanie Gregg and Vivien Cleary	Cultivating student led tutorials in STEM	Supporting students	Student centred learning, equal opportunities, maximising student potential, improving tutorial attendance, inverted classroom	SDK100	LHCS			Oct-21	Dec-22

	4.00												0.00
29	1/	Jul-20	21A-MHSKM-CC-	Mark Hall and	Modern Container-based Learning	lechnologies for	Container-based delivery, Cloud	11284, IM351	C&C		Kouadri Mostefaoui joint PL - Using Bitesize Videos to	Jan-21	Oct-22
			01	Soraya Kouadri	Interface and Delivery Infrastructure	STEM learning	technologies, Accessibility,				Enhance Students' Experiences in a Level 2		
				Mostéfaoui	(MCLIDI)		Integrated Learning Interface				Programming Module		
											Kouadri Mostéfaoui - Assessing 'alternative media'		
											elements: is there a generic model?		
											elements, is there a generic model.		
											Kouadri Mostėfaoui joint PL - Visualising the code: are		
											students engaging with programming at level 1?		
											Kouadri Mostéfaoui joint PL - Supportina Dearee		
											Apprenticeshin students: Tutors' and Students'		
											Apprenticeship students. Tutors und students		
											perspectives		
											Kouadri Mostéfaoui joint PL - Using Bitesize Videos to		
											Enhance Students' Experiences in a Level 2		
											Programming Module		
											r ogranning module		
											Kouadri Mostefaoui joint PL - Are You Ready for Your		
											Studies - Are we Assessing Students Readiness? An		
											evaluation of the usefulness of the Level 2 ARFY quizzes		
											Analysis of COVID-19's impact on BAME students'		
											Analysis of COVID 15 S impact on DAME Statemes		
											attainment (A case study of Level 1 C&C Open		
											University modules)		
	10					a 11. 11. 11.							
30	13	Jul-18	18K-CH-CC-04	Clem Herman	Developing a strategy for an LGBT+	Equality, diversity	LGBTQ+, equality, diversity,		C&C	Nacho Romero (STEM	Evaluation of a community partnership approach using	Nov-18	Jul-22
					inclusive STEM Faculty	and inclusion	inclusion, Athena SWAN, learning			Deanery)	open educational resources: Equate Scotland and the		
							environment, study goals,				Returning to STEM BOC		
							workplace cultures confidence						
							enter programien				Condered Chaines Maturation and degree chaines of		
							career progression				Gendered Choices - Wollvation and degree choices of		
											Computing and IT students: a gendered analysis		
											Career Development for STEM professionals		
											Career Development for STEM professionals		
31	19	lul-21	211-MHCH-LHCS-	Mark Hirst and	Student progression through linked	Technologies for	ISE confidence scientific enquiry	\$290	LHCS	Hilary MacQueen (LHCS)	Career Development for STEM professionals	Oct-21	Oct-22
31	19	Jul-21	21J-MHCH-LHCS-	Mark Hirst and	Student progression through linked	Technologies for	ISE, confidence, scientific enquiry	S290	LHCS	Hilary MacQueen (LHCS)	Career Development for STEM professionals	Oct-21	Oct-22
31	19	Jul-21	21J-MHCH-LHCS- 01	Mark Hirst and Christopher Heath	Student progression through linked interactive screen experiments: building	Technologies for STEM learning	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of	S290	LHCS	Hilary MacQueen (LHCS)	Career Development for STEM professionals	Oct-21	Oct-22
31	19	Jul-21	21J-MHCH-LHCS- 01	Mark Hirst and Christopher Heath	Student progression through linked interactive screen experiments: building confidence and competence	Technologies for STEM learning	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification	\$290	LHCS	Hilary MacQueen (LHCS)	Career Development for STEM professionals	Oct-21	Oct-22
31	19	Jul-21	21J-MHCH-LHCS- 01	Mark Hirst and Christopher Heath	Student progression through linked interactive screen experiments: building, confidence and competence	Technologies for STEM learning	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification	\$290	LHCS	Hilary MacQueen (LHCS)	Career Development for STEM professionals	Oct-21	Oct-22
31	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E-	Mark Hirst and Christopher Heath Foroogh	Student progression through linked. Interactive screen experiments: building. confidence and competence. Investigating students perception of some	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering,	S290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female	Oct-21 May-21	Oct-22 May-23
31	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH-	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh,	Student progression through linked interactive screen experiments: building confidence and competence investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering Laboratory,	S290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research	Oct-21 May-21	Oct-22 May-23
31	19 18	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- FILDS-01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie	Student progression through linked interactive screen experiments: building, confidence and competence. Investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering Laboratory, Mathematics. Software skills. Real	5290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Pranammer	Oct-21 May-21	Oct-22 May-23
31	19 18	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie	Student progression through linked interactive screen experiments: building confidence and competence. Investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering Laboratory, Mathematics, Software skills, Real time at under foodback	5290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes	Oct-21 May-21	Oct-22 May-23
31 32	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie Gallen, Helen	Student progression through linked. Interactive screen experiments: building, confidence and competence. Investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering, Laboratory, Mathematics, Software skills, Real time student feedback	5290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes	Oct-21 May-21	Oct-22 May-23
31 32	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and	Student progression through linked. interactive screen experiments: building confidence and competence. Investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering Laboratory, Mathematics, Software skills, Real time student feedback	\$290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen jpint PL - Perceptions, Expectations and	Oct-21 May-21	Oct-22 May-23
31	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and Rafael Hidalgo	Student progression through linked interactive screen experiments: building, confidence and competence investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering, Laboratory, Mathematics, Software skills, Real time student feedback	5290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen jpint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared	Oct-21 May-21	Oct-22 May-23
31	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and Rafael Hidalgo	Student progression through linked Interactive screen experiments: building, confidence and competence. Investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering Laboratory, Mathematics, Software skills, Real time student feedback	5290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen jaint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen jpint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (par III: the	Oct-21 May-21	Oct-22 May-23
31	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and Rafael Hidalgo	Student progression through linked_ interactive screen experiments: building, confidence and competence_ investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering Laboratory, Mathematics, Software skills, Real time student feedback	5290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen jpint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (part II: the student perspective)	Oct-21 May-21	Oct-22 May-23
31	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and Rafael Hidalgo	Student progression through linked. interactive screen experiments: building. confidence and competence. Investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering Laboratory, Mathematics, Software skills, Real time student feedback	\$290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen jpint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (part II: the student perspective)	Oct-21 May-21	Oct-22 May-23
31	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and Rafael Hidalgo	Student progression through linked interactive screen experiments: building, confidence and competence Investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering Laboratory, Mathematics, Software skills, Real time student feedback	5290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen jpint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (part II: the student perspective)	Oct-21 May-21	Oct-22 May-23
31	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and Rafael Hidalgo	Student progression through linked interactive screen experiments: building, confidence and competence. Investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering Laboratory, Mathematics, Software skills, Real time student feedback	5290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen jpint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (part II: the student perspective) Gallen joint PL - Perceptions, Expectations and	Oct-21 May-21	Oct-22 May-23
31	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and Rafael Hidalgo	Student progression through linked Interactive screen experiments: building, confidence and competence. Investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering Laboratory, Mathematics, Software skills, Real time student feedback	5290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (part II: the student perspective) Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared	Oct-21 May-21	Oct-22 May-23
31	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and Rafael Hidalgo	Student progression through linked interactive screen experiments: building, confidence and competence. Investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering, Laboratory, Mathematics, Software skills, Real time student feedback	S290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (part II: the student perspective) Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders	Oct-21 May-21	Oct-22 May-23
31	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and Rafael Hidalgo	Student progression through linked. interactive screen experiments: building. confidence and competence. Investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering Laboratory, Mathematics, Software skills, Real time student feedback	S290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen jpint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (part II: the student perspective) Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders	Oct-21 May-21	Oct-22 May-23
31	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and Rafael Hidalgo	Student progression through linked_ interactive screen experiments: building, confidence and competence. Investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering Laboratory, Mathematics, Software skills, Real time student feedback	5290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen jpint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (part II: the student perspective) Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Evaluating the level 1 enaineerinn	Oct-21 May-21	Oct-22 May-23
31	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and Rafael Hidalgo	Student progression through linked interactive screen experiments: building, confidence and competence. Investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering Laboratory, Mathematics, Software skills, Real time student feedback	S290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (part II: the student perspective) Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Evoluating the level 1 engineering tutors resource.	Oct-21 May-21	Oct-22 May-23
31	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and Rafael Hidalgo	Student progression through linked interactive screen experiments: building, confidence and competence investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering. OpenEngineering Laboratory, Mathematics, Software skills, Real time student feedback	S290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen jpint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (part II: the student perspective) Gallen joint PL - Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Evaluating the level 1 engineering tutors resource	Oct-21 May-21	Oct-22 May-23
31	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and Rafael Hidalgo	Student progression through linked. Interactive screen experiments: building. confidence and competence. Investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering Laboratory, Mathematics, Software skills, Real time student feedback	S290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (part II: the student perspective) Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Evaluating the level 1 engineering tutors resource	Oct-21 May-21	Oct-22 May-23
31	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and Rafael Hidalgo	Student progression through linked. interactive screen experiments: building. confidence and competence. Investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering Laboratory, Mathematics, Software skills, Real time student feedback	S290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (part II: the student perspective) Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Evaluating the level 1 engineering tutors resource Lockett - An investigation into the breadth of learning	Oct-21 May-21	Oct-22 May-23
31	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and Rafael Hidalgo	Student progression through linked. Interactive screen experiments: building. confidence and competence. Investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering Laboratory, Mathematics, Software skills, Real time student feedback	S290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (part II: the student perspective) Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Evaluating the level 1 engineering tutors resource Lockett - An investigation into the breadth of learning outcomes and skills developed in OpenSTEM Labs	Oct-21 May-21	Oct-22 May-23
31	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and Rafael Hidalgo	Student progression through linked interactive screen experiments: building, confidence and competence. Investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering Laboratory, Mathematics, Software skills, Real time student feedback	S290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (part II: the student perspective) Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Evaluating the level 1 engineering tutors resource Lockett - An investigation into the breadth of learning outcomes and skills developed in OpenSTEM Labs experiments	Oct-21 May-21	Oct-22 May-23
31	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and Rafael Hidalgo	Student progression through linked interactive screen experiments: building, confidence and competence. Investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering Laboratory, Mathematics, Software skills, Real time student feedback	S290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (part II: the student perspective) Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Evaluating the level 1 engineering tutors resource Lockett - An investigation into the breadth of learning outcomes and skills developed in OpenSTEM Labs experiments	Oct-21 May-21	Oct-22 May-23
31	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and Rafael Hidalgo	Student progression through linked interactive screen experiments: building, confidence and competence. Investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering Laboratory, Mathematics, Software skills, Real time student feedback	5290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (part II: the student perspective) Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Evaluating the level 1 engineering tutors resource Lockett - An investigation into the breadth of learning outcomes and skills developed in OpenSTEM Labs experiments	Oct-21 May-21	Oct-22 May-23
31	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and Rafael Hidalgo	Student progression through linked_ interactive screen experiments: building, confidence and competence. Investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering Laboratory, Mathematics, Software skills, Real time student feedback	5290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (part II: the student perspective) Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Evaluating the level 1 engineering tutors resource Lockett - An investigation into the breadth of learning outcomes and skills developed in OpenSTEM Labs experiments Hidalgo joint PL - Improving student engagement duran apile-apily causes through the use of	Oct-21 May-21	Oct-22 May-23
31	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and Rafael Hidalgo	Student progression through linked. interactive screen experiments: building. confidence and competence. Investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering Laboratory, Mathematics, Software skills, Real time student feedback	5290	LHCS E&i and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (part II: the student perspective) Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Evaluating the level 1 engineering tutors resource Lockett - An investigation into the breadth of learning autcomes and skills developed in OpenSTEM Labs experiments Hidalgo joint PL - Improving student engagement during online-only courses through the use of https://www.investiga.com/end/duriden/	Oct-21 May-21	Oct-22 May-23
31	19	Jul-21 Jan-21	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and Rafael Hidalgo	Student progression through linked. interactive screen experiments: building. confidence and competence. Investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, Laboratory, Mathematics, Software skills, Real time student feedback	S290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (part II: the student perspective) Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Evaluating the level 1 engineering tutors resource Lockett - An investigation into the breadth of learning outcomes and skills developed in OpenSTEM Labs experiments Hidalgo joint PL - Improving student engagement during online-only courses through the use of interactive question-embedded videos	Oct-21 May-21	Oct-22 May-23
31	19	Jul-21 Jan-21 Jul-20	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01 20L-EHTPLB-EI-	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and Rafael Hidalgo	Student progression through linked. Interactive screen experiments: building. confidence and competence. Investigating students perception of some of the key learning activities in T272.	Technologies for STEM learning Supporting students Equality, diversity	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering Laboratory, Mathematics, Software skills, Real time student feedback	S290 T272	LHCS E&I and LDS E&I	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (part II: the student perspective) Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Evaluating the level 1 engineering tutors resource Lockett - An investigation into the breadth of learning outcomes and skills developed in OpenSTEM Labs experiments Hidalgo joint PL - Improving student engagement during online-only courses through the use of interactive question-embedded videos Bowers - Haptic thinking; identifying haptic tooling	Oct-21 May-21 Dec-20	Oct-22 May-23
31	19	Jul-21 Jan-21 Jul-20	21J-MHCH-LHCS- 01 21E- FHAMGHLRH- EILDS-01 20L-EHTPLB-EI- 01	Mark Hirst and Christopher Heath Foroogh Hosseinzadeh, Anne-Marie Gallen, Helen Lockett and Rafael Hidalgo Elouise Huxor, Theo Philcox and	Student progression through linked interactive screen experiments: building, confidence and competence. Investigating students perception of some of the key learning activities in T272	Technologies for STEM learning Supporting students Equality, diversity and inclusion - APP	ISE, confidence, scientific enquiry and skills, scientific thinking, ease-of use/gamification STEM, engineering, OpenEngineering Laboratory, Mathematics, Software skills, Real time student feedback	S290 T272	LHCS E&I and LDS	Hilary MacQueen (LHCS)	Career Development for STEM professionals Gallen joint PL - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (part II: the student perspective) Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Gallen joint PL - Evaluating the level 1 engineering tutors resource Lockett - An investigation into the breadth of learning outcomes and skills developed in OpenSTEM Labs experiments Hidalgo joint PL - Improving student engagement during online-only courses through the use of interactive question-embedded videos Bowers - Haptic thinking: identifying haptic tooling interventions for an online design course	Oct-21 May-21 Dec-20	Oct-22 May-23 Dec-21

34	16	Jan-20	20F-MJHF-SPS- 01	Mark Jones and Helen Fraser	Evaluation of Assessment and Tuition Changes for S284 Astronomy	Supporting students	Assessment, Tuition, Student- support, Online-learning, AL- experience	5284	SPS	Olivia Rowland and Rafa Hildago (LDS)	Jones - Developing practice in online synchronous tuition by peer observation, feedback and reflection Jones - Online Team Investigations in Science (OTIS) Jones Joint PI - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Joint Joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (part II: the student perspective)	Jun-20	Dec-21
35	14	Jan-19	19H-SS-SPS-02	Sally Jordan	Concept inventories in physics: from development to impact	Equality, diversity and inclusion	Concept inventory, free-text response, automated marking, learning gain	SM123, S112, S217	SPS	Holly Hedgeland (University of Cambridge)	Thresholded assessment: Does it work?	Aug-19	Jul-22
36	2 AL	Mar-20	20H-AK-MS-01	Abi Kirk	Learning lessons from Mathematics Individual Support Sessions in order to promote verbal communication by students in group online tutorials	Supporting students	Online group tutorials, interaction, verbal communication, individual support sessions	M337	M&S			Aug-21	Feb-22
37	15	Jul-19	19K-SKMOH-CC- 01	Soraya Kouadri Mostéfaoui and Oli Howson	Are You Ready for Your Studies - Are we. Assessing Students Readiness? An. evaluation of the usefulness of the Level 2. ARFY quizzes	Supporting students	Retention and progression, students satisfaction, gender bias, pre- requisite	M250, TT284, M269	C&C		Kouadri Mostéfaoui - Assessing 'alternative media' elements: is there a generic model? Kouadri Mostéfaoui joint PL - Visuallising the code: are students engaging with programming at level 1? Kouadri Mostéfaoui joint PL - Supporting Degree Apprenticeship students: Tutors' and Students' perspectives Kouadri Mostéfaoui joint PL - Using Bitesize Videos to Enhance Students' Experiences in a Level 2 Programming Module Kouadri Mostéfaoui joint PL - Modern Container-based Learning Interface and Delivery Infrastructure (MCLIDI) Kouadri Mostéfaoui joint PL - Analysis of COVID-19's impact on BAME students' attainment (A case study of Level 1 C&C Open University modules)	Nov-19	May-22

20	16	lan 20	20D SKMMAC CC	Corava Kouadri	Lising Bitosizo Vidoos to Enhance Students'	Supporting students	Brogramming visual programming	TT204	C.8.C		Kouadri Mostófaqui Assossina 'alternativo modia'	Apr 20	Doc 21
30	10	Jan-20	200-38101010-00-	Solaya Kouaun	Costing bitesize videos to Enhance Students	Supporting students	riogramming, visual programming,	11284	Cac		Roudul Wostejuour - Assessing unernative media	Api-20	Dec-21
			01	iviostelaoui,	Experiences in a Level 2 Programming		video tutorial, student engagement,				elements: is there a generic model?		
				Marina Carter and	Module		retention.						
				Mark Hall							Kouadri Mostéfaoui joint PL - Visualising the code: are		
											students engaging with programming at level 1?		
											Kouadri Mostéfaoui joint PL - Supporting Degree		
											Apprenticeship students:		
											Kouadri Mostéfaoui joint PL - Are You Ready for Your		
											Studies - Are we Assessing Students Readiness? An		
											evaluation of the usefulness of the Level 2 AREV auizzes		
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											Koundri Mastéfaqui and Mark Hall joint Dis Madara		
											Contribution la contribution de la contributica de		
											Container-based Learning Interface and Delivery		
											Infrastructure (MCLIDI)		
											Kouadri Mostéfaoui joint PL - Analysis of COVID-19's		
											impact on BAME students' attainment (A case study of		
											Level 1 C&C Open University modules)		
											Carter joint PL - Workday day-time tutorials for		
											apprentices – what is the best practice in Computing?		
39	18	Jan-21	21D-ALSD-CC-01	Alexis Lansbury	Accessibility of Jupyter Notebooks on	Equality, diversity	Jupyter notebooks, accessibility,	M269	C&C		Lansbury joint PL - An investigation into how STEM	Apr-21	Sep-22
				and Sharon	M269	and inclusion - APP	usability, iPython				students use learning resources in different formats,		
				Dawes							and how this use develops over time		
											Lansbury joint PL - Dearee-Apprenticeships; Embedding		
											learning in the practice-tutor apprentice employer		
											tringrite		
											aiparate		
											Dower joint BL An investigation into the way lupytor		
											Natabaaks anhansa laamina and taashina an TM251		
											Notebooks enhance learning and teaching on 110351		
40	16	Jan-20	20E-ALCTAH-CC-	Alexis Lansbury,	Degree-Apprenticeships: Embedding	Employability	Apprenticeships; practice-tutors;		C&C		Lansbury joint PL - An investigation into how STEM	May-20	May-22
			01	Chris Thomson	learning in the practice-tutor, apprentice,		quality assurance and				students use learning resources in different formats,		
				and Andy	employer tripartite		enhancement; evaluation				and how this use develops over time		
				Hollyhead									
											Lansbury joint PL - Accessibility of Jupyter Notebooks on		
											M269		
											Thomson joint PL - An investigation into the way		
											Jupyter Notebooks enhance learning and teaching on		
											TM351		
1													
					1						Thomson - Workday day-time tutorials for appropriate -		
1											what is the best practice in Computing?		
					1						what is the best proctice in computing?		
41	16	lan 20		Holon Lockott	An investigation into the breadth of	Tochnologios for	Pomoto laboratorios, oplins		E 9.1	Jamos Smith and	loint DL Investigating students percention of some of	lup 20	Son 22
41	10	Jan-20	20F-HL-EI-U1	neien Lockett	An investigation into the breadth of	CTENA loosning	Remote laboratories, online		EQU	James Smith and	Joint PL - investigating students perception of some of	JUII-20	Sep-22
1					Conception of the second skills developed in	SI EIVI learning	laboratories, Opens i Eivi Labs,			Reviil Gowans (STEM	the key learning activities in 1272		
1					Opensi EM Labs experiments		learning outcomes, practical work			Deanery)			
<u> </u>	-	L											
42	17	Jul-20	20K-AL-SPS-01	Annika Lohstroh	Investigating the impact of ethnicity on	Equality, diversity	Ethnicity, Physical Sciences, Student	SM123, S217	SPS	Laura Alexander (SPS)		Nov-20	Apr-22
1					student experience in stage 1 and 2	and inclusion - APP	Experience, Retention, Student						
1					Physical Sciences (PS)-oriented modules		Success						
1	1	1									1		

43	13	Jul-18	18K-JLKRDB- LHCS-01	Jane Loughlin, Katja Rietdorf and Diane Butler	Early Start 5294: evaluation.	Supporting students	Bridging interventions, module start, retention, forum support, tutorials	S294, SDK100, S112, SK299	LHCS		Butler joint PL - Investigating factors which affect active student participation during tutorials in online rooms Butler joint PL - Monitoring student behaviour on a level 1 Science module using a multidisciplinary team approach Loughlin joint PL - Improving success and satisfaction of credit transfer students entering L3 modules in Science Loughlin joint PL - Understanding how our assessment contributes to retention and awarding gaps for black students on LHCS modules Rietdorf and Loughlin - Assessing the impact of skills development through formative assessment on student retention and success in S294	Nov-18	Aug-22
44	18	Jan-21	210-ILDBEC- LHCS-01	Jane Loughlin, Duncan Banks and Eleanor Crabb	Understanding how our assessment, contributes to retention and awarding gaps for black students on LHCS modules	Equality, diversity and inclusion - APP	Awarding gap, retention gap, assessment strategy, assessment design	S111, S112	LHCS	Sarah Daniell, Lorraine Waters, Karen New and Nicola McIntyre (LHCS)	Loughlin joint PL - Early Start 5294: evaluation Crabb and Loughlin - Improving success and satisfaction of credit transfer students entering L3 modules in Science Rietdorf and Loughlin - Assessing the impact of skills development through formative assessment on student retention and success in 5294 Loughlin joint PL - Understanding awarding gaps for disabled and black LHCS students at Level 1 Crabb joint PL - Online remote experiments in chemistry- analysis of delivery, assessment, tracking and student perception Crabb joint PL - Improving success and satisfaction of credit transfer students entering L3 modules in Science Crabb joint PL - Online Summer Schools Crabb joint PL - Developing responsive approaches to enhance personalized learning in selected LHCS modules	Apr-21	Dec-22
45	17	Jul-20	20K-NLMS-EI-01	Nicole Lotz and Muriel Sippel	Understanding the mental health attainment gap in Design modules	Equality, diversity and inclusion - APP	Mental Health, Design, E&I, Study Experience	U101, T217, T317	E&I	Lisa Bowers (E&I)	Lotz - Are we making progress? Progression through learners' interaction in OpenStudio across a qualification Lotz - Developing a sense of community through cross- level engagement between staff and students in creative industries subjects	Nov-20	Dec-21
46	17	Jul-20	20K-LMJB- LHCSEEES-01	Louise MacBrayne and Jennie Bellamy	Black student experience and outcomes on \$112: improving a level 1 STEM module	Equality, diversity and inclusion - APP	Attainment gap, BAME, BME, exam, online tuition	\$112	LHCS & EEES	Elaine McPherson (EEES)		Nov-20	Jun-22
47	14	Jan-19	19D-CM-SPS-01	Calum MacCormick	Implementing quantum mechanics visualisation tools in a distance learning context	Technologies for STEM learning	QuVIs, Quantum mechanics visualisation	SM358	SPS	Silvia Bergamini (SPS) and Jimena Gorfinkiel (SPS)		Apr-19	Feb-22
48	16	Jan-20	20F-EM-EEES-01	Elaine McPherson	Investigating the motivations of female_ students choosing an open versus named qualification	Equality, diversity and inclusion	Gender, qualification, women, STEM, motivation, aspiration, engineering	Y033	EEES	Anne-Marie Gallen (E&I) Anactoria Clarke (WELS) and Mary Keys (E&I)	Joint PL - Proactive support for students to make the transition from print material to online study Joint PL - Engaging students as experts in the trial and evaluation of Disability Language Guidance McPherson joint PL - Accessibility and inclusion in tuition (AccIT)	Jun-20	Jun-22

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4		18	Jan-21	21D-CIVIJL-LHCS-	Lane Loughlin	understanding awarding gaps for disabled	equality, diversity	Awarding gap, retention gap	SDK100, S111, \$112	LHCS	MacBravne Fiona	magiey joint PL - SDK100 – what aspects of this online	Apr-21	Jui-22
				01	June Loughin	and black they students at tever 1			5112		Moorman and Vikki	only module are the statents engaging with		
											Haley-Mirnar (LHCS)	Loughlin joint PL - Early Start S294: evaluation		
												Loughlin joint PL - Improving success and satisfaction of		
												credit transfer students entering L3 modules in Science		
												Loughlin joint PL - Assessing the impact of skills		
												development through formative assessment on student		
												retention and success in \$294		
												Loughlin joint PL - Understanding how our assessment		
												contributes to retention and awarding gaps for black		
												students on LHCS modules		
5) 1	15	Jul-19	20D-AMHJ-EI-01	Alice Moncaster	Improving and evaluating inclusivity in	Equality, diversity	Inclusivity, group work, project-	T176, T276,	E&I	Fiona Gleed and Silvia		Nov-21	Mar-23
					and Hedieh	group project work for distance-learning	and inclusion	based learning, engineering	T229		Varagnolo (E&I)			
5	1 1	14	Jan-19	19E-FMKN-LHCS-	Fiona Moorman	STEM ISSS - where are we now?	Supporting students	Individual student support session.		LHCS	Deborah Peat (AS).	Online journal clubs in distance higher education: an	Mav-19	Mar-22
				02	and Karen New	Evaluating awareness, usage and		effective, supportive			Roberta Nathan (AS),	opportunity to develop skills and community?		-
						effectiveness of individual student support	-				Catherine Coldbeck (AS)			
						sessions					and Maria Kantirou (CIO Portfolio)	New - Use of augmented reality in a second level human bioloav module: benefits and challenges		
											,			
												Summer Series of Journal Clubs: an opportunity to		
												amongst students in secure environments		
	, ,	17	1.1.21		Carol Marris and	Understanding factors influencing DAME	Foundity dispersity	DAME attainment intersectionality	T102 U101	F 8 1	Father Comple (FRI)	Marris isint DI Fasingaring qualifications at the OII	Oct 21	Dec 22
5.	2	17	JUI-21	21A-CIVIKS-EI-U1	Rachel Slater	students' achievements within Engineering	and inclusion - APP	recruitment, engagement	U116	Eðil	Esther Sample (E&I)	what motivates women to study?	Oct-21	Dec-22
						and Innovation								
												Morris joint PI - Engineering residential school or home experiments? A comparison from the perspective of		
												both the student and the tutor		
												Classes inite DI Accessibility and inclusion in suition		
												(AccIT)		
5	3 1	18	Jan-21	21F-KNFM-LHCS- 01	Karen New and	An evaluation of use and impact of zero	Equality, diversity	Zero grade, academic conduct, L	SDK100, S111, S112, SDK228	LHCS	Ellen Heeley and Dan	Online journal clubs in distance higher education: an	Jun-21	Dec-22
				01	FIONA WOOTHIAN	consistent, fair, and transparent?	and inclusion - AFF	marker, outcomes, consistency	\$294 \$294		Johnson (Encs)	opportanity to develop skins and commanity:		
												Summer Series of Journal Clubs: an opportunity to		
												develop employability skills and a sense of community		
												STEM ISSS - where are we now? Evaluating awareness,		
												usage and effectiveness of individual student support sessions		
												New - Use of augmented reality in a second level human biology module: henefits and challenges		
												naman biology modale, benefits and chanenges		
5	4 1	17	Jul-20	20K-KNEC-LHCS-	Kate Nixon and	Online Summer Schools	Online/onscreen	On-line experiments, research skills,		LHCS	Rob Janes, Daniel	Crabb joint PL - Developing responsive approaches to	Nov-20	Mar-22
				01	Eleanor Crabb		STEW practice	engagement			Batham (LHCS)	modules		
											. ,			
												Crabb - Online remote experiments in chemistry-		
												perception		
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1												crapp - improving success and satisfaction of credit transfer students entering L3 modules in Science		
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1												Understanding how our assessment contributes to retention and awarding gaps for black students on		
												LHCS modules		
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55	15	Jul-19	19J-TO-STEMD- 01	Tom Olney	Measuring the Impact of Learning Design and Course Creation (LDCC) Workshops	Academic professional development	Learning Design, Course Creation, Professional Development, Impact, Belarus, China, International Engagement, Pedagogy Research.		STEM Deanery	Duncan Banks (LHCS), Bart Rienties (IET) and Daphne Chang (E&I) (Mark Endean was part of team but retired in Oct 2020)	Joint PL - Piloting OU Analyse and the Student Probabilities Model on 12 STEM Modules Evaluating the Impact of Implementing Learning Design Approaches in STEM over 4 Years	Oct-19	Mar-22
56	18	Jan-21	21D-TO-STEMD- 02	Tom Olney	Evaluating the Impact of Implementing Learning Design Approaches in STEM over 4 Years	Learning design	Learning design, OULDI, quality, process, governance		STEM Deanery	Carlton Wood, Anne Higson and Alison Edwards (STEM Deanery)	Joint PL - Piloting OU Analyse and the Student Probabilities Model on 12 STEM Modules Measuring the Impact of Learning Design and Course Creation (LDCC) Workshops	Apr-21	Feb-22
57	17	Jul-20	20K-SP-MS-01	Sue Pawley	Exploring the extent of maths anxiety within the STEM Faculty at The Open University	Equality, diversity and inclusion - APP	Maths Anxiety, Mental Health, Supporting Students, Maths teaching	MU123, MST124, T192, TM111, U101, U116, S111, SDK100	M&S	Sally Organ (E&I) and John Morgan (AL)	Joint PL - Supporting MST224 students with bridging material during their transition from level one mathematics	Nov-20	Dec-22
58	19	Jul-21	21J-SPCB-MS-01	Sue Pawley and Cath Brown	Creating a community of support through social activities	Supporting students	Student support; Student community; Retention; Resilience	MST124	M&S		Pawley joint PL - Supporting MST224 students with bridging material during their transition from level one mathematics Pawley - Exploring the extent of maths anxiety within the STEM Faculty at The Open University Brown joint PL -	Oct-21	Sep-23
59	17	Jul-20	20K-APDTCH-MS 01	Andrew Potter, Delyth Tomos and Chris Hughes	Welsh-medium tuition in Level 1. Mathematics	Supporting students	Wales, Welsh-medium tuition, apprehension in learning mathematics, student experience, minority languages	MU123	M&S	Chris Hughes (M&S), Ann Williams (AL) and Ceinwen Gwilym (WELS)	Potter joint PL - Developing students and tutors perceptions of good mathematical communication on level one service mathematics module MU123: an investigation Potter joint PL - Associate Lecturer Reflections on Student Perceptions of Usefulness of Level 1 Service Mathematics Potter joint PL - Blended tutorials in Mathematics: simultaneous F2F and online learning events Hughes - Hughes - Evaluating the accessibility of an alternative format of module materials in Maths & Stats Hughes joint PL - Usage of Early Alerts Indicators on two level 1 modules Hughes joint PL - Supporting MST224 students with bridging material during their transition from level one mathematics Hughes joint PL - Sonification partial pilot on M140 Hughes joint PL - Sonification of depictions of numerical data	Nov-20	Dec-22
60	16	Jan-20	20F-SP-EI-01	Sotiria Psoma	Comparative study of distance teaching of Electronics using simulation software versus OpenEngineering Laboratory	Technologies for STEM learning	Distance teaching practical laboratory, real-time remote-control electronic laboratory, simulation in education, distance teaching undergraduate student, learning tools in electronic engineering education	T212, T312	E&I			Jun-20	Mar-22
61	14	Jan-19	19C-CRMBAMG- EILIV-01	Clare Reger, Mark Bowden and Anne Marie Gallen	Eactors influencing female participation in Physical Science Postgraduate Research Programmes	Equality, diversity and inclusion	Female postgraduates; fusion; nuclear; under-representation; postdoctoral; progression; recruitment; physical science; physics; engineering		E&I and Uni of Liverpool		Reger and Gallen - Evaluating the level 1 engineering tutors resource Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders (part II: the student perspective) Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders	May-19	Dec-21

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62	18	Jan-21	211-KRJL-LHCS-01	Katja Rietdorf and	Assessing the impact of skills development	Equality, diversity	Formative assessment, student	5294	LHCS	Lorraine Waters and	Joint PLs - Early Start S294: evaluation	Sep-21	May-22
				Jane Loughlin	through formative assessment on student	and inclusion - APP	retention, student success, student			Angelika Fischenich			
					retention and success in S294		performance, student feedback,			(LHCS)	Loughlin joint PL - Improving success and satisfaction of		
							student engagement				credit transfer students entering L3 modules in Science		
											Loughlin joint PL - Understanding awarding gaps for		
											disabled and black LHCS students at Level 1		
											Loughlin joint PL - Understanding how our assessment		
											contributes to retention and superding game for black		
											contributes to retention and awaraing gaps for black		
											students on LHCS modules		
63	11	Jul-17	17K-I R-FI-02	Linda Robson	Assessment banking – useful break or	Supporting students	Assessment banking TMA retention	11101	F&I	Laura Stafford (AS)	A quantitative and qualitative investigation into	Nov-17	Jul-23
05		Jul 17	17 K EK EF 02	Linda Nobson	Assessment banking useral break of	Supporting students	Assessment banking, TWA, retention	0101	Loci	caula stallola (AS)	A quantitative and quantative investigation into	1404 17	501-25
					deterred withdrawal? An investigation of						communications sent to students for selected level 1		
					the outcomes and experience for students						MST and science modules		
					who have assessment banked								
64	14	lan 10		Julia Pahran and	Online near mentoring at scale: Repofits	Supporting students	Boor montoring, sustainability	C112 C/VE)206	EEEC		Hutton joint BL Student development and percentions	Jul 10	1
04	14	Jan-13	19G-JKCH-LLL3-	Julie Robsoli allu	Online peer mentoring at scale. Benefits	supporting students	reel mentoring, sustainability,	3112, 3(AF)200,	LLLJ		nation joint PE - stadent development and perceptions	101-19	Jul-22
			01	Chris Hutton	and impacts from a student buddy		employability skills, student buddles	\$209, \$390			of employability skills in stage 1 science		
					perspective								
											Hutton joint PL - Evaluation and improvement of print		
											nacks use for Environmental Science students		
											Robson joint PL - Impact of introducing new practical		
											and dataset project options to the science		
											undergraduate capstone project module (\$390)		
65	14	Jan-19	19E-ER-EEES-03	Emma Rothero	Floodplain Meadows Partnership	STEM engagement	Floodplain meadows, ambassadors		EEES	David Gowing	Flight of the Fritillary	May-19	Dec-21
					Ambassadors		-			-		-	
											Elight of the Fritillan, phase 2		
											right of the rithing phase 2		
66	10	Dec-16	17I-HRTO-MS-01	Hayley Ryder and	Use of OULive recordings of Tive	Supporting students	Growth mindset, maths resilience,		M&S		Ryder - Use of STACK to generate formative assessment	Oct-17	Apr-22
				TC O'Neil	mathematics' and discussion forums on a		drop-out, retention, OU Live,				for level 3 Pure mathematics		
					level 3 Pure mathematics module in order		forums, level 3						
					to enable students to move to a growth						Does the provision of an 'own working space' for tutors		
					mindest in maths and to add a social						anhanna the learning superiones for students		
					mindset in maths and to add a social						ennance the learning experience for students		
					dimension to learning mathematics								
											Evaluating the increase in student wellbeing brought		
											about by informal online sessions and computer		
											congrated worked examples on a level 2 pure maths		
											generated worked examples on a level 5 pure maths		
											module.		
67	11	Jul-17	17K-HRTO-MS-	Hayley Ryder and	Does the provision of an `own working	Technologies for	Online tuition, Adobe Connect, tutor	M303	M&S		Use of OULive recordings of 'live mathematics' and	Jan-18	Apr-22
			02	TC O'Neil	space' for tutors enhance the learning	STEM learning	room approach, individual rooms.				discussion forums on a level 3 Pure mathematics		
					oversienes for students		shared reams				medule in order to enable students to move to a		
					experience for students		shared rooms				module in order to enable students to move to a		
											growth mindset in maths and to add a social dimension		
											to learning mathematics		
											Evaluating the increase in student wellbeing brought		
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											about by informal online sessions and computer		
											generated worked examples on a level 3 pure maths		
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1	1	1							1		about by informal online sessions and computer		1
1	1	1							1		generated worked examples on a level 3 pure maths		1
	1	1							1		modulo		

68	17	1	lul-20	20K-HRTO-MS- 03	Hayley Ryder and TC O'Neil	Evaluating the increase in student. wellbeing brought about by informal online sessions and computer generated worked examples on a level 3 pure maths module	Equality, diversity and inclusion - APP	Wellbeing, mathematical anxiety, cognitive load theory, resilience, worked example effect	M303	M&S		Use of OULive recordings of 'live mathematics' and discussion forums on a level 3 Pure mathematics module in order to enable students to move to a growth mindset in maths and to add a social dimension to learning mathematics Does the provision of an 'own working space' for tutors enhance the learning experience for students Ryder - Use of STACK to generate formative assessment for level 3 Pure mathematics	Nov-20	Oct-22
69	15	J	lul-19	20A-RSACEM- EIASEEES-01	Rachel Slater, Anne Campbell and Elaine McPherson	Accessibility and inclusion in tuition (AccIT)	Equality, diversity and inclusion	Accessibility, inclusion, students with disabilities, tutors, distance learning, face-to-face tuition, online tuition		E&I, AS and EEES	Vic Pearson (SPS), Kate Lister (RES), Christine Pearson (E&I), Jo Buxton (WELS), Zoe Clayton (PVC Students) and Carol Howells (FBL)	Slater joint PL - Understanding factors influencing BANE students' achievements within Engineering and Innovation Campbell joint PL - McPherson joint PL - Proactive support for students to make the transition from print material to online study McPherson joint PL - Engaging students as experts in the trial and evaluation of Disability Language Guidance McPherson - Investigating the motivations of female students choosing an open versus named qualification	Jan-20	Mar-22
70	16	١	lan-20	20D-CTMC-CC-01	Chris Thomson and Marina Carter	Workday day-time tutorials for apprentices – what is the best practice in Computing?	Supporting students	Apprenticeships, tutorials, workday daytime study, weekday tutorials	TMXY130, MXY250, TTXY284	C&C	Emily Wood (AS), Alison Leese (BDU) and Dave McIntyre (AL)	Thomson joint PL - An investigation into the way Jupyter Notebooks enhance learning and teaching on TM351 Thomson joint PL - Quality Assurance and Enhancement in Degree Apprenticeships: Developing New Approaches Carter joint PL - Using Bitesize Videos to Enhance Students' Experiences in a Level 2 Programming Module	Apr-20	Feb-22
71	13	١	lul-18	18K-CWLC- EEESLHCS-01	Carlton Wood and Lynda Cook	Supporting students in online tuition from Access through the student journey	Online/onscreen STEM practice	Tuition, synchronous, online, student behaviour, learning experience, tutor-student relationship	Y033, SDK100, U116, S111, S112	EEES & LHCS	Anactoria Clarke (WELS)		Nov-18	Mar-22
72	3 A	LN	Mar-21	21J-AZ-EI-01	Ann Zata	Understanding the challenges faced by BAME students studying T219 Environmental Management 1, to better support and enhance their learning	Equality, diversity and inclusion - APP	BAME, diverse cultural experiences, participation, tutor interactions, academic performance	T219	E&I	Daphne Chang and Kevin Collins (E&I)		Oct-21	Oct-22

No.	Project call	Call date	Ref	Project Leader(s)	Project Title	Theme(s)	Keywords	Module(s) involved	School(s)/Unit(s)	Other staff involved	Other eSTEeM projects as PL	Start date	Status	Final report submitted	Key findings/impact
1	13	Jul-18	18K-FACH-EEES- 01	Fiona Aiken and	Student development and perceptions of employability skills in state 1 science	Employability	Employability, personal development planning (PDP), radar chart, radar diagram, science, skills development	5112	EEES	Isabella Henman, Jane Kendall- Nicholas and Nius; Marigheto (ALs)	Evaluation and improvement of print packs use for Environmental Science students Alken joint PL - Typical Support Seeking Behaviour of STEM Students, their Outcomes and Successes Hutton joint PL - Online peer mentoring at scale: Benefits and impacts from a student buddy perspective	Nov-18	Project completed	Nov-20	Our project has highlighted that students who have studied \$112 show some evidence of developing employability skills, however certain LOS (business and customer awareness) and the use of radir diagrams as computisory to record skills development are not popular. Students also find it difficult to engage with PDP at the start of the module where they lack a benchmark to assess their skills against. We met with the Module Team in October 2020 to share our findings, and a constructive discussion ensued. The MT were unsure aboot making modulance, including materials to promote elf-assessment in the introductory total session. 1. Help students establish as realistic a benchmark as possible at module start (e.g. promotion of the Are You Ready for \$1127 quiz). 2. Provide thot gruidmes, lincluding materials to promote elf-assessment in the introductory total session. 3. Increase tutors' awareness of students' confidence levels in existing skills at module start, and provide guidance to tutors in helping students see the value of PDP / to facilitate authentic engagement. Our own awareness PDP design for future modules will probably avoid radar diagramm, or make them available as an optional tool. The \$112 MT are considering numerous small changes in PDP on \$112 in order to improve student engagement with this. This should enhance students' PDP on the module in future presentations. Furthermore, It is better for PDP to be introduced to students using a consistent method for recording them throughout a qualification e.g. through use of the FutureYou tool.
2	1	Feb-11	11D-745D-EEES- 01	Tom Argles &	Generatial technologies in distance learning and teaching in Science	Technologies for STEM learning	Geospatial, geology, spatia Hinking skills, spatial Hiteracy, threshold concepts geolocated data, GIS software	\$276, 5209, \$288	EEES		Argles - Evoluation of The OpenScience Lab's 3D Virtual Skiddaw application Davies joint PL - Geospatial technologies in distance learning and teoching in Science Davies joint PL - Hybrid/Digital Networked Learning scraffy mangel or sleek new bread? Practices and implications of blending physical and digital resources for learning in HE Davies joint PL - Disseminating inclusive field teoching – sharing resources and practices across disciplies and institutions Davies - Place-making and student identity in fieldwork learning Davies - Embedding research into teaching: practices, motivations and imports Davies - Imeestigating Barriers and Inclusive Messaging around Fieldwork Learning in the Earth, Environmental and Ecological Sciences	Apr-11	Project completed	Nov-14	Development of a Geology Photo Blog tool based around a Google Maps interface, to enable OU geology students and tutors to share pictures related to their studies and encourage discussion. Tool embedded in S209 <i>Earth science</i>
3	11	Jul-17	17K-LAAL-SPSCC- 01	Laura Alexander and Alexis Lansbury	An investigation into how, STEM students use learning resources in different formats, and how this use develops over time	Online/onscreen STEM practice	Digital content, books, learning resources, virtual learning, distance learning	S217, MST224, M250	SPS	Sharon Dawes	Alexander Joint PL - SISE only tutor groups and the effect on SISE students and their tutors Lansbury Joint PL - Degree-Apprenticeships: Embedding learning in the practic-tutor, apprentice, employer tripartite Lansbury Joint PL - Accessibility of Jupyter Notebooks on M269	Nov-17	Project completed	Feb-21	In summary, in the STEM faculty, module teams should be aware that students prefer a combination of books and digital resources to entrely digital resources, and this is not age related. Students would like more non-textual (audio-visual) digital resources, and more online quizzes. Qualification leads and module teams should be aware that students meeting an entrely digital module for the first time are likely to have problems adapting their study methods, particularly if this happens after stage-1. In addition, the impact on the students from poorer backgrounds of entirely digital modules should be considered, since entrely digital modules seem to require at least two different digital devices for effective study, as well as a good broadband connection and access to a printer.
4	15	Jul-19	191-ALTVN- SPSLHCSEEES-01	Laura Alexander, Linda Thomson and Vic Nicholas	SSE only tutor mough and the effect on SSE students and their tutors	Equality, diversity and inclusion	Students in secure environments, SSE, Tutor Allocation, S111, Supporting students, SISE only tutor groups	5111	SPS, LHCS, EEES	Melanie McCabe, Tom Wilks, Lance Dalton, Siothan McGuigan, Trevor Scott, Jane Kendal- Nicholas (ALs)	Alexander Joint PL - An investigation into how STEM students use learning resources in different formats, and how this use develops over time Thomson Joint PL - The impact of live streaming module-wide events in student engagement and motivate Thomson Joint PL - Online tutarial design: can we do better? Nicholas - Gathering student perception about online/distance practical science at level 1 Nicholas - Gathering student perception about online/distance practical science at level 2	Oct-19 5	Project completed	0ct-20	The single thing that the OL could do to improve the SSE experience is to fix and enforce a Final Enrolment Date for SSE students. This would: Increase the likelihood that SSE students receive their module materials in good time allow sensible geographic allocation of SSE students to tubors, making some face to face tution possible ensure that in each prison Education Officers only have to deal with one tubor per module, allowing tubors to build up relationships with the EOs and improving communication For high population modules with more than say 10 SIES students, SSE provemers etc. It would also allow the SSE only tubors to work more closely with the relevant module team to improve the resources available over time.
5	1	Feb-11	11D-LB-CC-01	Leonor Barroca	Understanding different perspectives of postgraduate education in the international arena	International curriculum delivery	Postgraduate, international ICT, computing, Brazil, Portugal, professional development		C&C			Apr-11	Project completed	Jun-12	Ongoing strategic collaboration with Brazilian institutions leading to further publications and study visits
6	14	Jan-19	19F-LBMW-CC- 01	Leonor Barroca and Matt	Understanding the profile of apprentices	Equality, diversity and inclusion	Student profile, apprentices diversity		C&C		Barroca - Understanding different perspectives of postgraduate education in the international arena	Jul-19	Project completed	Due Feb-22	
7	11	Jul-17	17J-EI-SB-01	waikley Simon Bell	Wisdom from Groups	Supporting students	Group work, graphic, novel, animation, retention, student engagement	T219, T319	E&I	Kevin Collins (E&I) Charles Cutting		Oct-17	Project completed	Mar-19	At the time of writing (March 2019) it is too early to identify any significant findings or measures or impact. The site is just launched, and students are only beginning to engage with it. The conic site has been advertised in online/live module-wide tutorials for both T219 and T319 cohorts. These broadcasts remain available as podcasts to students on either module. This project was all about reaching out to students with the means of a story about collaborating in online groups presented in a graphic novel. To achieve maximum outreach the project anheed co-funding by Open Media and Informal Learning (OMLI) and is available along with a variety of supplementary materials in its final form at: https://www.open.edu/openlearly/science-maths- technology/design-innovation/when-two-worlds-collide-achieving-wisdom-online-groups

8	7	Feb-15	15F-LB-EI-01	Lisa Bowers	Isapit: University and Contributory and Control of Cont	Technologies for STEM learning	Haptics, accessibility, online, applied design, engineering, touch, future technology, sensory centric tooling		E&I	Nick Braithwaite, Mark Endean, Ryan Hayle		Jun-15	Project completed	Jan-18	Students who were invited to the project had no previous hnowledge of haptics, the specific divice used, nor the concept of how haptics owded in the virtual realm. Thereby students were introduced to new fields of design interaction and protoped sesmelty. Many of the students have since followed up their interest in haptics. One specific case of a NS participant (now a PMD student) reading haptic, (M+ Haptics) and was inspired by the particular process and device and stated he would like to include the shape assembly project as a literature review in the future. The longer term inspact revealing the effect on students' retention etc will be measured after more testing with mobile haptic devices or gesture haptics. The legacy this project has left with academic teaching staff has been interesting. From the three volunteer design ALs selected to work with the BETA version of the shape assembly, all of them have been inspired to read further on haptics in education. They all were interested and stated they were inspired about the OU investing in research for design TEL. Externally this project has left beingeric tead adding the actemation by through University Hertfordshire (UH). It has also been placed in the project leads PhD thesis, as a main trial of haptic testing. Papers have been submitted to external haptic conference.
9	13	Jul-18	18K-LBRJ- WELSLHCS-01	Lesley Boyd and Rob Janes	Using technology-enabled learning networks to drive module improvements in STEM	Technologies for STEM learning	Learning networks, collaboration, action research, learning design analytics, Tricky Topics	\$215	WELS & LHCS	Tom Olney (STEM Deanery), Christine Leach (AL) Carol Calvert	Janes Joint P. – Blending lobcasts and remote/virtual experimentation: students' perception in practical skill development alternative Janes Joint PL – Utilising the Teaching Tricky Topic process to Identify and Address Student Misunderstandings across Three OU Modules	Nov-18	Project completed	Sep-21	As a result, as series of 'signosting' materials were developed by a tutor for five Block identified by tutors and students as 'pressure point'. The signost were promoted to students via hear Time Studer foreback (MS7) austicationnaire in the Study Planner. This communicated to students that the module hear were aware of and immestigating the verbload issue, and provided reassurance to students who may have been falling behind. Thus targeted practical and emotional support was provided to those students requiring it. Signosts have been realisative two providevity by students. Tutors considered the project to be a 'welcome collaborative process' in which 'any improvements were made, for students, based directly on the project reflection and solutions put forward. Project data formed a backhoose of evidence for the module Mid II Meelewing to that the lessons and evidence from the project will be integrated into the forthcoming module re-write (beginning 2021-22).
10	10	Dec-16	17E-AB-MS-01	Alison Bromley	Supporting the student's learning journey through the transition of mathematics and statistics from level 2 to level 3	Supporting students	Bridging interventions, transition, level 2, level 3, retention, student journey	MST224	M&S	Gareth Williams, Sue Pawley, Gaynor Arrows mith (M&S) and Alex Siddons (AS) Rochel Hilliam Joint PL until 31 July 18	Joint PL - M140 B VLE usage	May-17	Project completed	Due Feb-22	
11	15	Jul-19	19J-VB-KMI-01	Venetia Brown	Associate Lecturers' Involvement in Improved Practice in a SXPS288 Labcast Delivery	Technologies for STEM learning	Distance learning, synchronous online learning, labcasts, tutor perceptions, sense of community	SXPS288	KMi	Alan Cayless (SPS)		Oct-19	Project completed	Dec-21 - with MJ for review	
12	6	Jun-14	14L-PB-SPS-01	Pam Budd/Holly Hedgeland	Sender Differences in completion and credit obtained in Level 2 study in Physical Sciences	Equality, diversity and inclusion	Equality, gender differences, physics, level 2	5207, 5217, MST121	SPS	Jimena Gorfinkiel, Sally Jordan and Victoria Pearson (SPS) Holly Hedgeland	Hedgeland - Concept inventories in physics: from development to impoct	Dec-14	Project completed	Feb-18	This project involved further data analysis in relation to various aspects of the assessment in S207- both continuous assessment and various exam component. Data from other modules in related areas was also examined. Results suggested that the difference in success between the genders in S207 could be not explained by the assessment strategy or by other factors (e.g. online forum activity, gender of tubol) (dont et al. (2015)). Demographic information gave no obvious differences for women and men e.g. age, previous qualifications etc but for Open University student previous study is very varied and individual student information known is very limited. To determine further information in this area some students on the 2015 preventiation of 2312 were surged and a cohord of these students interviewed by phone. These telephone interviews allowed more detailed discussions of students' reasons for studying 2312 as well as their preparedness for the module particular/in iterms of any previous study of physics and/or mathematics. Common themes were identified and allowed recommendations for additional resources to be made to the module team.
13	12	Jan-18	18F-SB-EI-01	Stephen Burnley	Investigating the challenges faced by postgraduate students in developing countries	International curriculum delivery	Commonwealth Scholarship Commission, postgraduate, developing countries, Environmental Management MSc programme		E&I	Sinead O'Connor and Richard Campen (ALs)		Jun-18	Project completed	Due Feb-22	
14	8	Oct-15	160-08LCVHM- LHCS-01	Diane Butler, Lynda Cook and Uxiki Haley- Mirnar	Investigating factors which affect active subdent, participation during tutorials in online rooms	Supporting students	Online, ututoriais, active student participation, student experience	5294, SK277, 5295, SXHL288	LHCS	Louise MacBrayne and Catherine Halliwell (ALS)	Cook - A quantitative and qualitative investigation into communications sent to students for selected level 1 MST and science modules Holey-Minrar Joint PL - SDK100 – what aspects of this online only module are the students engaging with? Butler Joint PL - Early Start S294: evaluation Cook and Butler - Monitoring student behaviour on a level 1 Science module using a multidisciplinary team approach	Apr-16	Project completed	Sep-18	Our detailed focus on the realities of tutorial provision in this area of our curriculum therefore suggests a modified approach to tutorial provision using a greater variety of approaches/techniques that may better serve the variety of expectations of our students. The design of future module tutorial strategies may encompass the following without the intention that all students will use all types of provision. • A greater variety of types of well signposted, small group tutorials, clearly defined in terms of expectations of active student participation, including drop in support, clinic, problem solving, skills focused sessions, assessment focused sessions. • Provision of inge scale, high production value (potentially pervisely recorded) fectures' proving the data detained value with the explains key module concepts and gives the coverage many students crave. • Provision of inge scale, high production value (potentially pervisely recorded) fectures' proving the data distant volar which advalue to the student experience such as live debates or lab casts. • Creative use of forum spaces to provide places for follow up asynchronous discussion of online fectures' or other synchronous densities for follow up asynchronous discussion of online fectures' or other synchronous discussion of online fectures' or other synchronous discussion of source basis with anomalise the limportance and value of student to student interaction. • Opportunities for peer to peer 'tutor less' synchronous meetings.

15	8	Oct-15	16A-CC-MS-01	Carol Calvert	Implementation of lessons, learnt from students who, succeed "despite the odds"	Supporting students	Retention, data		M&S	Rachel Hilliam (M&S), Linda Brown and Dave Edwards (ALS) , Colin Fulford, Julie Coleman	A Flexible Start to M140 Early start MU123 Unint PI - Unage of Early Alerts Indicators on two level 1 modules Joint PL - How one module can serve multiple qualifications through tailored implementation of presentation Joint PL Developing student use of feedback on their marked TMAs	Jan-16	Project completed	Jun-17	The findings from the project have been incorporated into an Induction Programme for a group of students on a Level 1 Mathematics entry module. This induction Session has also been made available to all the students on the 2017 February start for entry level Mathematics & Satistics modules
16	10	Dec-16	17E-CC-MS-02	Carol Calvert	A Resible Start to M140	Supporting students	Bridging interventions, module start, retention, tutor support	M440, M6T124, MU123, MU123, B124, D8123	M&S	Karen Vines (M&S Gaynor Arnosmith, Colin Fulfod, Mark Hobbs, Luay Salman, Tricia Terndrup	Implementation of lessons learnt from students who succeed "despite the odds" Early start MU123 Joint PL - Usage of Early Alerts Indicators on two level 1 modules Joint PL - How one module can serve multiple qualifications through tailored implementation of presentation Joint PL - Developing student use of feedback on their marked TMAs	May-17	Project completed	Aug-18	 The pilot has established that a substantial number of students are keen to take part in an opportunity to start M140 on a more flexible basis prior to the October module start. Students have identified the benefits in terms of reduction in stress, better time management and a better understanding of how study at the OU is organized. Student responses to the questionnaire were clearly showing how much they valued the tutors and the tutorials support and yet uptake of the ficility offered by those served low. This may simply be that the sam (portant for the students to NUV the tutor was there if needed but that actually the materials were well within the undestanding of the majority of the students. Nuther students no tutos lief that there are strong benefits for most students to faving the same tutor on the early start programme as they do on the main presentation. Student retention has improved by 12 percentage points between registration and module start. Around 30-40 more students starfaction will also have improved but it is unlikely that will be identifiable within the annual tutinesity student satisfaction starts passed M140 than we would have expected compared with registration numbers in 2015 and 2016. It is anticipated that student startsfaction will also have improved but it is unlikely that will be identifiable; have also have improved but it is unlikely that will be identifiable. Thus the programme registration as clifficable to 15 days. This is of a teganist a potential retention in 18 of at least 30 students. Thus the programme registrates act effective way of increasing retention. The explanatory factor to be added to the predictive model is not "take part" but more critically being "offered a place and not taking up the place". This is acting as a proxy for lick of engagement at an early stage with study. Additionally following discussions with AL's, colleagues in assessment, and the Board of studes it was agreed
17	13	Jul-18	18K-CCABCH- MS-01	Carol Calverf, Alison Bromley and Chris Hughes	Usage of sairy Alerts. Indicators on two level 1. modules.	Supporting students	Bridging interventions, module start, retention, tutor support, at risk students, analytics, VLE	M140	MBS	Clare Morris (AL)	Calvert - Implementation of lessons learnt from students who succeed "dispite the odds" Calvert - A Flexible Stort to M140 Calvert joint PL - Early stort M1/23 Calvert joint PL - Early stort M1/23 Calvert joint PL - How one module can serve multiple qualifications through tailored Implementation of presentation Calvert joint PL - Developing student use of feedback on their marked TMAs Bromley Joint PL - Developing student use of feedback on their marked TMAs Bromley Joint PL - Developing student use of feedback on their marked TMAs Bromley Joint PL - Developing student set learning journey through the transition of mathematics and statistics from level 2 to level 3 Hughes joint PL - Webb-medium fuition in Level 1 Mathematics Hughes - Evaluating the accessibility of an alternative format of module materials in Maths & Stats Hughes joint PL - Supporting MST224 students with bridging material during their transition from level noe mathematics Hughes joint PL - Sonfication partial pilot on M140 Hughes joint PL - Sonfication and epiccions of numerical data	Nov-18	Project completed	Dec-19	Associate lecturers were asked to consider contacting students on the basis of the Early Alerts indicators and they reported students were generally wery happy to be contacted. Students were also asked for their views and they had few reservations of predictions being generated and used as the basis for their tutor to contact them. The pars rates of the students in tutor groups of the ALs involved in the project showed no consistent differences to the pars rates of those not involved in the project. The impact of this project on student learning and on AL practice earnot be assessed within this project. This project has established a clear message for other ALs: the Early alert indicators are useful but they are a supplement not a replacement to your involvedige. With a secondary clear message that students like you to provide view (contact them). The work on inplicitation should be make the information more acceptable to tutors and the work on quantifying how much accuracy is lost by providing early predictions should help an AL deed how much reliance to place upon LL tuging the interfun AL inport. Annex A-his message has been shared with module teams and Level 1 chairs and influenced the information in use in the October presentation. There is a clear message for students as well. To a new student is simply that being cautious over how much you commit to at first is good and engaging with the VLE as soon a syou can is good. And for students who did that last year we have the quantified evidence that those that did so did batter in terms of passing their module. To a continuing student the message is similar engaging with the VLE as soon as you can is good and bear in mind you previous track record because it is likely to be similar unless you change something. In both cases we can measure VLE engagement pre-module start but actually any engagement pre-module start is likely to be positive. For Mathematics and statistics modules, where we are increasingly running early access to materials.
18	16	Jan-20	20C-CCRH-MS- 01	Carol Calvert and Rachel Hilliam	How one module can serve multiple qualifications through tallende implementation of presentation	Supporting students	Key routes, conditional qualification study routes, tutor allocation by qualification, tutor group discussions	M248	M&S		Calvert - Implemention of Jespinence of multitude data Succeed "despite the odds" Calvert - Early stort M140 Calvert joint PL - MU123 & M140 Early start: 18J Calvert joint PL - Usage of Early Alerts Indicators on two level 1 modules Calvert joint PL - Developing student use of feedback on their marked TMAs Hilliam - Enabling Mathematics and Statistics Associate Lecturers to achieve their potential Hilliam - Investigating the careers of Staff Tutors in STEM for Athena SWAN Hilliam - The Mathematics and Statistics Community of Learners	Mar-20	Project completed	Nor-21 - with NU for review	

19	13	Jul-18	18F-CCLS-MS-01	Carol Calvert and Luay Salman	Early start MU123	Supporting students	Bridging interventions, module start, retention, tutor support, at risk students	MU123, M140	M&S		Calvert - Implementation of lessons learnt from students who succeed 'despite the odds' Calvert - Early start M140 Calvert Joint PL - Usage of Early Alerts Indicators on two level 1 modules Calvert Joint PL - How one module can serve multiple qualifications through tailored implementation of presentation	Jul-18	Project completed	May-20	To date there is minimal detectable difference in terms of retention for those who took part in the early start programme. This is in contrast with M140 and suggests that the choice of students offered an early start opportunity is critical.
20	8	0ct-15	16E-DC-EI-01	Daphne Chang	Impact study of the taught. MScs in Technology related subjects on students' employability	Employability	Employability, postgraduate professional development, student perception, technology	e, T847, T802	E&I	Jo Walshe (AL)		May-16	Project completed	Due Feb-22	
21	8	0ct-15	16A-NCEM-LHC: 01	Nick Chatterton and Elaine Moore	Online Chemistry Support. Clinics	Online/onscreen STEM practice	endejing interventions, rörg in clinics, retention, chemistry, online, Khan Academy, screencasts, Learn Chemistry	5104, 5215	LHCS	Louise Macbrayne and Catherine Halliweil (ALS)Elaine Moore,	Moare - Students' study of online modules Chatterton joint PL - Developing responsive approaches to enhance personalized learning in 5315	Jan-16	Project completed	Jan-20	The direct impact of the clinic on S15 161 presentation is difficult to assess. Each presentation has a different cohort of students, some of which may be better or less well engaged with the module materials inherently, so comparisons with provide years can be problematic. Additionally, there were several other retention measures undertaken by S215 module team during 161, including inductions to course content and the introduction of assessment weeks. Undoubted by S215 module team during 161, including inductions to course content and the introduction of assessment weeks. Undoubted by S215 module team during 161, including impact on retention - students' would be presumably less likely to fail too far behind and that sdop-od. Bearing this in mind, we must be cautious when drawing direct conclusions on the impact of the clinics. Figure 5 shows a comparison of the student retention for the 161 presentation along with similar data for earlier S215 and S205 presentations. Caveats aside, the 161 presentation of S215 was more successful than other presentations, and this may be in part due to the clinic although intract widence is elsuive. As mentioned earlier, we had plently of opportunities to disseminate our approach and findings both within STEM and the university more widely. In terms of our projects' impact we could claim that there has been an increase in the number of clinic/hootcamp-type initiatives since 1611 Howevery, we cannot claim to be there also lengiation for this by any means as there were several other initiatives of similar type being piloted around the same time. Some bridging activities that have started since end of our pilot include: 4315 "Getting Ready for S315" website and clinic 4324 " farity start; involving some reusion pilot toroials 43 indiging activities in Maths and Stats for students transitioning between levels 2 and 3
22	7	Feb-15	15F-FC-CC-01	Frances Chetwynd	Breaking the coding barrier, Transition from Level 11 Level 2 programming	Supporting students	Bridging interventions, transliton, programming, level 1, level 2, retention	TU100, TM129, M250, M269, TT284	C&C	Helen Jefferis and Fiona Aiken (ALS)		Jun-15	Project completed	Jul-18	During the course of the project work the C & C School replaced the subject Stage 1 60 credit module, TUID0, with two 30 credit modules, TMI11 and TMI12. The first of these – TMI12 – uses PUBuil for programming which is a version of Scratch and very similar to Sense as used on TUID0. The second of these – TMI12 – uses PUbuil for programming that is a version of Scratch and very similar to Sense as used on TUID0. The second of these – TMI12 – uses PUbuil for 10100, and meetangle frequently used in elecucions. While the programming teaching on TMI11s of a similar level to TUID0, and generally the students do very well on This, the programming on TMI12 is of a higher level and moves the students. from using visual programming to text-based programming. The first two findings of this project contribute significant knowledge to the efficacy of numing bridging courses for distance learning students. The findings demonstrate that students who are most likely to benefit from attending a bridging course will need to be contacted personally and encouraged to sign up for it and attend. Overall, the project thas demonstrate that students when considering multiple modules across a number of years, is extremely complex. Whils it is relatively easy to track an individual student, following multiple cohorts of students acros serval possible pathways and qualifications result is a splor's who differeconnectivity. Given the current work on CSR and a new data strategy for the OU, consideration should be given to providing this type of data in a readily accessible and usable format.
23	11	Jul-17	17K-KC-MS-01	Katie Chicot	Using Student Analytics with tutors to increase retention	Supporting students	Analytics, retention, ALs, support tool, growth mindset, mathematics resilience	MU123	M&S	Gerry Golding (M&S), Sally Crighton (M&S) and Carol Calvert (M&S)		Nov-17	Project completed	Aug-18	This project was included in a cross-Faculty evaluation of module use of analytics (Walker et al, 2018), and as such some qualitative data regarding tutors' views of our project is available. The results of these qualitative and quantitative assessments suggest that there is potential for expanding and rolling out this project across all of our level one Mathematics and Statistics modules.
24	15	Jul-19	19J-SCRMCH- LHCS-01	Simon Collinson Rachel McMullan and Catherine Halliwell	(<u>Can a new OU Study App.</u> experience of students on S350, an ordine only module?	Supporting students	Online, distance learning, innovations, supporting students, flexible study	\$350	LHCS	Jenny Duckworth (AL)	Calinaso jaint PL - Online remote experiments in chemistry - analysis of delivery, assement, tracking and student perception Halliwell joint PL - How are students using extensions and what is the impact on success? Halliwell joint PL - Can an asynchronous student conference in Open Studio develop students' critical evaluation skills?	Oct-19	Project completed	Apr-21	Our research has shown that students valued the App to enhance their studies of a level 3 science module, using the App in different ways with different interst. For many it was a simpler and quicker means to just check details on assignments or on study calendars and 's tay in touch' with the module, but at least one student used it for significantly longer and for first reading of module content. This aspect of use, particularly for disable students should be investigated ruther. Students commented on the 'informality' of its use and this, along with taking part in scholarship led to positive sentiments towards the module, which could be considered as a greater sense of leaner ownership [Dommet, E. 2018]. This has beet on a positive impact on the student experience of the module. The students benefitted from taking part as their participation allowed them to reflect and comment on their could be considered evidence of this for their assignments. As educators this research has impacted on our practice in a number of ways. Firstly, the work was widely disseminated at a number of workshops and ruthe presentations at the OU and at estematic conferences and their with positive feedback. Secondly, the project enables the baviour. Thirking the project has highlighted unexpected student behaviours that the module team are keen to better understand and engage with. This eSTEEM project was highlighted in the S350 QME module review.

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15	15	Jul-19	01	- David Comway Chris Gardner and Janet Hughes	dre vinaal insettre verste an friktuite was of engeling. Izanene and supporting zudent retertion in strance. Izanning environments2.	supporting students	wieening participation, employability, student support, student satisfaction, virtual field trips, virtual visits, student programme retention	1122, 1M111, TM112, TM129, TMY130, TMY130, TMY125, TXY122	Academic Services and C&C		Gardner - Analytics for tracking student engagement Gardner - Early Start for TM470 project students Hughes Joint PL - Investigating the perceived benefits to computing students of remote pair programming	Dec-19	May-20	NOv-21 with - MJ for review	
26	13	Jul-18	18K-LCDB-LHCS 01	Lynda Cook and Diane Butler	Monitoring student behavlour on a level 1 Science module using a mattidisciplinary team approach	Supporting students	Retention, progression, Level J, SST, MILLS interventions, student behaviour,	\$112, \$104	LHCS	Dan Berwick (LHCS) Marcus Badger (LHCS) Anthony Short (SRSC, Manchester) David Appleton (SRSC, Manchester) Oliver Burney	Joint PLs - Investigating factors which affect active student participation during tutorials in anilier rooms Butler joint PL - Early Start 5394: evoluation Cook joint PL - Assessing and supporting student experience of synchronous anilute utilion Cook joint PL - A quantitative and qualitative investigation into communications sent to students for selected level 1 MST and selecem candules	Nov-18	Project completed	Due Mar-22	
27	9	May-16	16J-SC-MS-01	Sally Crighton	Leading the way as a hydro nation in Scotland – supporting student transitions within a strategic partnership between Glasgow Chde College. The Open University in Scotland and Heriot-Watt University	Supporting students	Student transition, student motivation, employer engagement, strategic partnership	MU123, MST124, MST224	M&S	Felicity Bryers, Laura Howe and Andrew Potter (ALs)	Using peer observation within a Mathematics and Statistics community of practice in Scattand Joint PL - Developing students and tutars perceptions of good mathematical communication on level one service mathematics module MU123: an investigation	Oct-16	Project completed	Oct-19	Our thoughts on setting up the strategic partnership and subsequent exploration into the experience of the first cohort of students was shared within the HE community in Scotland (Crighton & Berndt, 2017a) and the STEM community (Crighton & Berndt, 2017b).
28	10	Dec-16	17E-SC-MS-02	Sally Crighton	Using peer observation within a Mathematics and Statistics community of practice in Scotland	Academic professional development	Peer observation, community of practice, growth mindset, Associate Lecturers, ALS, feedback, peer support, AL practice, reflective practice		M&S	Andrew Potter (AL)	Leading the way as hydro nation in Scotland – supporting student transitions within a strategic protnessing between Glosgow Clyde Callege, The Open University in Scotland and Heriot-Watt University kint PL - Developing students and tutors perceptions of good mathematical communication on level one service mathematics module MU123: an investigation	May-17	Project completed	Sep-19	In conclusion, we can strongly recommend our approach for the first round of observations, noting the importance of our three-step process, and its value in terms of impact on tasking protects. Feedback from NLs at a recent protessional advelopment event indicated no immediate appetite for another round of observations, however ideas from both rounds continue to provide food for thought and benefit to AL practice. We conclude, therefore, that the paired-ger observations scheme has worked extremely well as part of on-paring professional development initiatives within the community. All participants noted that as a result of this intervention they planned to take actions to develop their practice in various ways. The impact on students is beyond the scoge of this project, but forms part of on-pairing professional development work in the community. Our thoughts on per observation was started with colleagues in the wider higher education community through presentation papers delivered by both authors (Crighton & Potter, 2018a) and by the first named author (Crighton & Potter, 2018b).
29	14	Jan-19	19D-SCAPGG- MS-01	Sally Crighton, Andrew Potter and Gerry Golding	Developing students and tutors exercisions of aod mathematical communication on lowed one sensities mathematics module MU123: an investigation	Employability	Good mathematical Communication making grid, focus groups, service teaching	MU123	M&S		Crighton - Leading the way as a hydro nation in Scotland - supporting sudent transitions within a strategic partnership between Glasgow Cyde College, The Open University in Scotland and Heriot-Watt University Crighton - Using peer observation within a Mathematics and Statistics community of practice in Scotland Patter and Galding - Associate Lecturer Reflections on Student Perceptions of Usefulness of Level 1 Service Mathematics Patter joint P. Lended turariols in Mathematics imilitaneous F2F and online learning events Patter joint PL - Welsh-medium tuition in Level 1 Mathematics	Apr-19	Project completed	Due Mar-22	
30	4	Oct-12	13G-BD-LHCS- 01	Basiro Davey	SDK125 Student Intentions and Retention Study	. Supporting students	Retention, progression, online tutorials, support strategies, module choices	SDK125, SDK100	LHCS	Ellie Dommett (LHCS)		Jul-13	Project completed	Jul-14	The overall intended outcomes are to inform strategies for helping student support teams guide students towards appropriate module choices and enabling the module team to design in 'improved gedagogic approaches to teaching difficult concepts and a tuition strategy that maximises retention and progression for the students we are currently losing. This is particularly important given that SDX125 will be replaced in 2015 by a 60-credit module (SDX100) addressing similar curriculum areas and skills development, but with greater emphasis on virtual scientific experimentation and scientific literacy.
31	15	Jul-19	19J-SDCT-CC-01	Sharon Dawes and Chris Thomson	An investigation into the way Jupyter Notebooks enhance learning and teaching on TM351	Technologies for STEM learning	Jupyter notebook, iPython, TM351, lab book, code, pandas, python, visualisation, study resources, study location, integrating theory and practice	TM351	C&C	Ann Walshe (C&C)	Dawes Joint PL - Accessibility of Jupyter Notebooks on M269 Thomson Joint PL - Quality Assurance and Enhancement in Degree Apprenticeships: Developing New Approaches Thomson - Workday day-time tutorials for apprentices – what is the best aractice in Computing?	Oct-19	Project completed	Due Mar-22	
32	2 AL	Mar-20	20G-LD-LHCS-01	. Laura Dean	Learning and Development Needs of Autistic Adults Studying STEM Subjects via Distance Learning	Equality, diversity and inclusion	Autism, disability, autistic, communication		LHCS, FASS and WELs			Jul-20	Project completed	Jan-22	

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33	11	Jul-17	177-AD-CC-02	Anton Dil	uevelopment and evolution of a software tool for automated ava specification marking	rechnologies for STEM learning	Java, se portication, marking color, portication, marking language, marking tool	M/250	1.4C	Jose Truby (C&C), Joseph Osunde (C&C)	Java Aloud	0ct-17	irroject completed	1	A prototype structural specification checking too for Java was developed and tested on M250. In addition to a BlueJ plugin tool, a version of the software was deployed on the module's VL, where it was used extensively. 1. The software developed offers a way for students to check their understanding of specifications, to a large extent without the need to consult their tutor. Reuse of the tool offers i terative feedback of the student's progress towards completing code according to the required specification. 2. CheckM250 offers a way of quickly checking some aspects of a solution, and we hope that tutors may therefore give more attention to other aspects of code that are less easily tested automatically, for example the readability of the student's code. 3. Module teams have a tool they can use to check that provided solution code meets our own question specifications. 4. Tutors who used the software observed that it holged them find errors in student's work, powel than y have bened then down somewhat. Some indicated that a changed workflow might lead to shorter working times. The tool could also act as a self-assessment of marking, depending on the workflow adopted. 5. We noted that structural specification checking should succeed for unit testing to take place and that it may detect errors that unit tests have not caterered for. Although there were some concerns expressed over the use of automated marking tools, we consider the project to have provided good evidence for the advantages of automated assessment of code quality in a variety of scenarios.
34	1	Feb-11	11F-CD-CC-01	Chris Dobbyn	Transforming retention and progression in a new Level 1 course	Innovative assessment	Models of assessment, tutor guides, retention, feedback	TU100	C&C	Frances Chetwynd (C&C) and Helen Jefferis (AL)		Jun-11	Project completed	May-14	A key aspect of this project was the need for rapid and frequent feedback to the rest of the Module Team, to allow for ongoing development of the assessment and rededack regime in time for the following presentation (123) and to put in place additional resources and make module modifications in the fastest timescale possible. The interviews supplied us with material for many changes to the design of 128 TMAs and Tutor Guides.
35	3	Oct-11	12B-HD-CC-01	Helen Donelan	Enhancing professional networking and engagement using social media	STEM engagement	Engagement, professional, networking, social media, LinkedIn, blogs, wikis, career progression		C&C		Changing spaces for students' online interactions	Feb-12	Project completed	Aug-14	It has provided a timely investigation that is pertinent to the engagement manifesto and current discussions on digital scholarship. Results have been shared with the Communications office and working relationships estabilished with the "Catalyst for Public Engagement with Research' team. These working relationships are ongoing and this project continues to contribute to the development of tools for running workshops on research impact and digital engagement.
36	5	Sep-13	13K-CD-CC-01	Chris Douce	Understanding the challenges of learning to program at level 2	Technologies for STEM learning	Programming languages, coding, technologies	TU100, TM129, TT284	C&C	Dave McIntyre and Jon Williams (ALs)	Understanding on-line teaching practice: the importance of the observation Understanding STEM tutor motivation	Dec-13	Project completed	0ct-15	The biggest impact of this research is to provide a group of tutors a volce, it allows different module teams to learn more about how a group of tutors work together, and how they differ students additional support by creating additional materials. It has also been instructive in terms of exposing significant differences in OU live practice. In terms of impacts on programming, a significant timing that will be continued to be communicated to module teams is the importance of helping students to carry out problem solving and toobleshooling by the use of different tools. To offer help to our students, tutors have created videos. A key recommendation is that video resources are used to show students how to work with code, whils bearing in mind the importance of addressing accompanying accessibility challenges.
37	9	May-16	17A-CD-CC-02	Chris Douce	Understanding on-line. traching particle: the importance of the observation	Online/onscreen STEM practice	Tutotiais, online, face-to- face, observations, feedback, STEM teaching practice, Saff Intors, Associate Lectures	TT284, TU100, TM129	C&C	Sarah (Chyriwsky (AL) and Brendan Quinn (M&S)	Understanding the challenges of learning to program at level 2 Understanding STEM tutor motivation	Jan-17	Project completed	Jul-18	The tutor discussions that took placed can be summarised by a set of keywords: purpose, importance, dimensiom, acknowledgment, dialogue, frequency, practicalities, negatiation, feedback, differences, opportunities and connections. Discussions from the staff tutor facus group can be summarised as: philosophy, relationships, dialogue, guidelines, feedback, online, experience, priority and opportunities. One of the immediate outcomes of these facus groups was to uncover a set of practical and adaptable guidelines that have been used for Science tutors. Looking towards the future, a systematic survey of tuition practice, attitudes and experience could be established. Also, since the research has been carried out within the Faculty of STEM, it may be useful to extend this work to other faculties to uncover a more detailed and broader attitudes survey of tuition practice, attitudes and experience could be established. Also, since the research has been carried out within the Faculty of STEM, it may be useful to extend this work to other faculties to uncover a more detailed and broader attitudes. Survey and the findings from the two focus groups. To conclude, there are a number of key themes that are key to successful tuition observations, and this is reflected in the results from the two groups. These themes are of course, the importance of trust between tutor and line manager, and the importance of clear communication.
38	12	Jan-18	18E-CE-EH-01	Claudia Eckert	Besarch and Education in Product Development for 2040	Employability	Technologies, Industrial rends, curiculum planning, engineering, design		E&i			May-18	Project completed	Aug-20	Over the next 20 years: • The world will be changing mpidly to respond to the pressing challenges of a changing climate, a polluted planet, depleting resources, and a growing and increasingly-mobile world oppolation. • New technologies, such as quantum computing will emerge, while other technologies like rapid manufacturing and manatchhologies, such as quantum computing will emerge, while other technologies like rapid manufacturing and manatchhologies, such as quantum computing will emerge, while other technologies like rapid manufacturing and manatchhologies, such as quantum computing support and objects, giving rise to both ethical questions and unprecedented evidence- based engineering. • Product devicement plans a viail part in creating a sustainable and prosperous future for all. Whilst at the same time, it will be • Product devicement plans a viail part in creating a sustainable and prosperous future for all. Whilst at the same time, it will be • Product devicement supports will increasing be empowered by advancements in simulation and Al to design the desired behaviour before defining the system structure. • While the rate of charge in technology is increasing, the need to reuse existing components and systems will also rise to conserve resources. Components and subsystems will be shored across multiple products as consumer demand integrated solutions. • Principles of circularity will become mainstream and new materials will come to the market to reglace those that become scarce. • The ability to simulate product behaviour in multiple use constantibule products as consumer dependention to upper upper solutions. • Principles of circularity will become mainstream and new materials will come to the market to reglace those to tacceme taceans • Principles of circularity will be come common throughout the development process and enable companies to simulate individual-tace cases and product like cycles. This will be supported through analysis of user performance data. With rising compares can
39	15	Jul-19	19J-EEAG-LDS- 01	Elizabeth Ellis and Alice Gallagher	Learning behaviours and successful outcomes in STEM students	Supporting students	Learning behaviour, student success, retention, progression, learning design		LDS	Alice Peasgood (Educational Research Consultant), Melanie McCabe		Oct-19	Project completed	Dec-20	Students who demonstrate learning behaviours could be likelier to progress. Relationships exists between Learning Behaviours, and hard creating behaviours appear to trigger each other. Learning Behaviours are present in the learning design of modules and could trigger specific behaviours in students.

40	1	Feb-11	11D-ME-EI-01	Mark Endean	Online practical work for science and engineering students	Online/onscreen STEM practice	Online, practical work, computer-based experiments, virtual, science, engineering, China, international collaboration, intercultural awareness	T216	E&I	Nick Braithwaite (SPS)	Longitudinal impact of visiting scholarships on the professional practice of scholars from China	Apr-11	Project completed	Aug-12	The impact on thinking and practice in Shanghai has yet to be established but the reflections outlined in Appendix 2 of the final report suggest that contact with the OU has already added an extra dimension to their view of teaching. Collaboration with the OU is seen by many of the online colleges to be a main of 'quality' and is highly sought-after. Discussions have recently been had, and support in principle obtained from the Dean of MCT, around the inclusion of engineering in developments arising from the successful Wolfson bid. This will require commitment of time and effort from a number of individuals if progress is to be made.
41	11	Jul-17	17J-EI-MEDC-01	Mark Endean and Daphne Chang	Longitudinal impact of visiting schelarships on the professional practice of schelars from China	L Academic professional development	Visiting scholars, international scholarship programme, knowledge exchange, international strategy		E&I		Endean - Online practical work for science and engineering student Chang - Impact study of the taught MScs in Technology related subjects on students' employability	5 Oct-17	Project completed	Oct-20	As a result of our findings, our initially inward-looking study revealed the profound influence the OU has had on a number of distance education communities in China and has triggered several initiatives to promote new inter-community collaboration. Among these to date have been: • An invitation from Shanghai Open University (SOU) to the OU to join the UNESCO UNITWIN distance learning network, managed by SOU. • A bid (unsuccessful) to the British Council's UK-China Belt and Road Initiative Countries Partnership Fund in 2018. • A bid (unsuccessful) to the British Council's UK-China Belt and Road Initiative Countries Partnership Fund in 2018. • A bid (unsuccessful) to the British Council's UK-China Belt and Road Initiative Countries Partnership Fund in 2018. • A bid equation from Stud to the STEW Annual Conference in 2019 with a special session organised around internationalisation of scholarship. • A joint colloquium with University of London Worldwide and Leicester University, both concurrent hosts with the OU of scholars from OUC in 2019, accompanied by a commitment to further collaboration in connection with visiting scholars. Sino-British Fellowship Trust were in attendance. • The adoption by the PVC (ESS)/ET of the future management of visiting scholars from OUC in collaboration with the leads from all the OU scholarship cortexs. • A programme to invite 20 international scholars to the OU in May 2020. This call received 45 applications from all over the world. Unfortunately, this event had to be postponed due to the COVID pandemic. We aim to resume it as soon as it is feasible.
42	1 AL	Feb-19	19I-SEWGMM- CC-01	Shirley Evans, Winston Graham and Manish Malik	Strategies to support buttern and hubros with online. collaborative projects: an action research project	_ Supporting students	Online collaborative learning, distance learning, teaching strategies	T215	C&C			Sep-19	Project completed	Sep-20	Low-least strategies were put in place to support students to engage with the group work i.e. weekly bulknins, project group butchals and 'progression calls' and these were well-received and could be implemented in the future (see the recommendations below). Until synthesis of the results indicates that lack of engagement by some students is a key issue for both students and tubors. Some tubors are expending time and energy on strategies to engage students including setting up the project groups and encouraging engagement but in many cases this may have title or on migrach on those not engaging either because they do not have sufficient time and/or because they are prevented by social anxiety for example. On reflection the research question and aims would be better framed around strategies to support students to engage and strategies in being into group work. However a bight light has been shore on the context in which tutors are working and the types of strategy that could have impact on student engagement. A majority of students do enging the strategies to a student on advecting is to take place. The impact on the source a bight light has been shore on the context in which tutors are working and the types of strategy that could have impact on student engagement.
43	15	Jul-19	19J-JFJW- WELSCC-01	Jo Fayram and John Woodthorpe	Supporting student academic skills development - an evaluation of an English for. Academic Purposes pilot	Supporting students	Academic skills development, English for Academic Purposes, individual support sessions, student experience, student performance, student retention, student support		WELS and C&C	Lina Adinolfi (WELS), Kayleigh Robinson (SRSC) and Kester Robert (SRSC)	Woodthorpe - An investigation into the use of Artificial Neural Networks to predict student failure, and the efficary of sustainable additional support for those students Voodthorpe jaint PL - How students' use of language relates to learning, retention, and performance in assessment on TU100: Implications for learning design, assessment strategy, and tuition practices in the MCT faculty	Oct-19	Project completed	Dec-21 - with To for review	
44	2	May-11	11H-PF-EI-01	Pam Furniss	Exploring adobt accential for WaSH distance education materials	International curriculum delivery	International development, water, sanitation, bygiene, OERs, World Vision, UNICEF,	U116	E&I		OpenWASH evaluation	Aug-11	Project completed	Oct-16	The OperWASH Modules and Trainer' Handbook are now available in pdf and Woof for pint in English and are being translated into four Ethogian regional languages. They are also available online as OBRs. The modules will be ploted in eight Ethogian colleges where they are being used for curriculum support for face-to-face teaching. The project was inspired initially by combination of personal experiences from making a series of videos for the undergraduate module U116 Environment: journeys through a changing world and from participating in the HEAT (Health Education and Training) programme in Ethogia. OpenWASH was therefore informed by and is informing OU teaching as it now brings added value to the rewrite of U116, curricult programs, and demonstrates the beneficial links between OU teaching and applied development work. As well as the tangbile explored of the Modules and Handbook, the project also led to successful incountry capacity building that uity contribute to sustainable improvement in learning deliver. The experiences of the Ethogian automs were assessed in a short survey. This revealed overwhelmingly positive responses and demonstrates the emergent secondary benefits that can result from a collaborative international teaching project of this type. The paymentes and adapted for WASH projects around the world, supporting the United Nations' Statianable Development dool to achieve safe drinking water and adequate MASH projects around the world, supporting the United Nations' Statianable Development Goal to achieve safe drinking water and adequated TWASH projects around the world, supporting the United Nations' Statianable Development Goal to achieve safe drinking water and adequated TWASH projects around the world, supporting the United Nations' Statianable Development Goal to achieve safe drinking water and adequated TWASH projects around the world, supporting the United Nations' Statianable Development Goal to achieve safe drinking water and adequated TWASH projects around the world, suppo
45	13	Jul-18	18K-PF-EI-02	Pam Furniss	OpenWASH evaluation	International curriculum delivery	International development, water, sanitaton, Ngeinee, OERs, World Vision, UNICEF, WaterAid		E&I	Ellen Scott (IDO)	Exploring global potential for WaSH distance education materials	Nov-18	Project completed	Oct-19	The interviews revealed that OpenWASH has been highly successful and had a positive impact on WASH tacking and training in Ethiopia. All current uses are enthusiastic about the modules and value the added dimension and innovation that OpenWASH has provided. There is considerable scope for expanding the use of OpenWASH by wider dissemination to more colleges and to other potential users. The report concludes with a set of recommendations for possible future activities to further develop the impact of OpenWASH in Ethiopia. The recommendations are: Ligenaid use of DerWASH to other colleges 2.8rovide more Training of Trainer events 3.8infyl inks tevene OpenWASH and Occupational Standards 4.8rometuse of Count me In Inclusive WASH in Ethiopia 5.9rgnaite an OpenWASH user network 6.8tsatiblia an OpenWASH user network 7.0omjete transition work. The recommendations include some suggestions for possible implementation.

46	15	Jul-19	19J-HGW-LHCS- 02	Hannah Gauci and Janette Wallace	Evaluating a new STEM AL Induction programme	Academic professional development	Higher Education, Induction,		LHCS		Assessing the effectiveness of the induction process for novice Associate Lectures in the Schood QL (le Health and Chemical Sciences in preparing them for the Associate Lecturer role Waldiace - Does: attendance at unrecorded online makule wide tutorals on a science makule enhances student enjoyment, engagement and success? How might this impact tuition strategy for current and future IKCS modules? Wallace joint PL - Impact of introducing new practical and dataset project options to the science undergraduate capstone project makule (SSM) Gauci joint PL - Summer Series of Journal Clubs: an opportunity to develop employability skills and a sense of community amongst students in ascure environments	Oct-19	Project completed	Jul-21 - with TC for review	
											Gauci joint PL - Impact of introducing new practical and dataset project options to the science undergraduate capstone project module (S390)				
47	7	Feb-15	15C-AMGAW- EICC-01	Anne-Marie Gallen and Ann Walshe	Perceptions, Expectations and Experience of room Jution: towards a shared understanding amongst stakeholders	Supporting students	Tuition practice, group unition, student-centered support		E&I & C&C	Anne Campbell (AS) and Mark Jones (SPS)	Gallen joint PL - Perceptions, Expectations and Experience of Group Tution: towards a barned understanding amongst stakeholders (part II: the student perspective) Gallen joint PL - Factors influencing female participation in Physical Science Posstgraduate Research Programmes Gallen joint PL - Investigating students perception of some of the key learning activities in 1272 Walshe - Towards A Structured Process for Involving ALs in Module Tuition Strategy Design and Review Walshe Joint PL - Investigating the perceived benefits to computing students of remote pair programming	Mar-15	Project completed	Jul-17	Impact on student learning has been indirect through our increased understanding of the purposes of group tution. This understanding is being applied when working with our colleagues to design module tutions trategies, with enolde materials and in writing online staff development materials for ALs to use. We are also able to apply our own increased understanding when developing our ALs through tutional 'witis an other development events. Students everywhere have similar support needs and expectations of tution. We can apply what we have learned from Open University tutors to a widers of tution models. The project is contributing to student success through increased expertise that has been passed on to our STEM ALs and diversity tutors to awdies rest of tution models. The trate discussion of the outputs of this project and invite a wide range of staff development. Online staff development materials for ALs draw directly on the outputs of this project and invite a wide range of staff from all faculties to reflect and share their own thoughts on the purposes of tution from groups - which has an effect on their practice and hence on their students. The inclusion of a discussion around the role of tution in several level 1 modules has also raised this idea in the minds of learners. It is clear that this needs to be further developed in the future. The above benefits apply to students for directive through the neaged tution. We wave that makes deflecting on what makes effective and engaging tutition, and will be willing to share examples of good tution practice, also there for the release of a students. We expect that others will a reducing on the integriting on what makes effective and engaging tutition, and will be willing to share examples of good tution practice, also there for the release of a students.
48	11	Jul-17	17J-CG-CC-01	Christine Gardner	Analytics for tracking student, engagement	Supporting students	Analysics, Informatics, OU Analyse	TM351, TM352, TM354, TM356	C&C	Allan Jones (C&C) and Helen Jefferis (AL)	Joint PL - Are virtual insight visits an effective way of engaging learners and supporting student retention in distance learning environments? Early Start for TM470 project students	Oct-17	Project completed	Feb-21	The findings from this study suggest that there are several actions that could be taken, for example: Give a clearer indication of time needed for the CALT activities (although obviously this will vary for each student). Add short discriptions about what kind of activity its, for example interactive, video. Promote the activities in a new models introductory or revision video or podcast. Use the module forums to promote them have 'taking headed' of students saying how useful they were. Add further detail to the introduction to certain activities, for example to explain the orientation in the 'launching a wave' activity. Several of these ideas suggested via the interviews have already been implemented and others could be actioned in the future. For Several of these ideas suggested via the interviews have already been implemented and others could be actioned in the future. For Several of these ideas suggested via the interviews have already been implemented and others could be actioned in the future. For Several of these ideas activity and an indication on where it fits in the student study calendar. Adds, a new revision podcest has been produced by the specifically promotes the use of the CALT resource at revision time, hogefully resulting in more students revisiting the online resources. TM355 has a good retention rate, but there is always room for improvement. The research suggest that the CALT resources can be beneficial for students to use throughout their study of TM355.
49	8	Oct-15	168-MGEMAC- MSEEESWELS-01	Martina Gibbons, Elaine McPherson and Anactoria Clarke	Proactive support for students to make the transition from print material to online study	Supporting students	Online study, print, access, transition, proactive support, ALs, retention, progression	Y033, S141, S111	M&S, EEES & LTI		Carke joint PL - Evoluating Access for Postgraduate Study McPherona Joint PL - Engaging students as experts in the trial and evaluation of Disability Language Guidance McPherson Joint PL - Accessibility and Inclusion in tuition (AccIT) McPherson: Investigating the molivations of female students choosing an open versus named qualification	Feb-16	Project completed	Due Feb-22	
50	9	May-16	16J-VHMCM- LHCS-01	Vikki Haley- Mirnar and Carol Midgley	SDK100 – what aspects of this online only module are the students engaging with?	Online/onscreen STEM practice	Engagement, interactive, video, self-assessment questions, investigative activities, skills development, student workload.	SDK100	LHCS	Graham Healing (IET)	Haley-Mirmar Joint PL - Investigating factors which affect active student participation during tutorials in online rooms	Oct-16	Project completed	Mar-21	The lessons learnt about student engagement with different types of interactive components will feed into upcoming Level 3 Health Sciences modules production and assessment design to optimise student workload and retention by frocsing on the most useful activity types. It is difficult to significantly alter a module during presentation lifespan, but the module team has produced extra supportive video resources, including as set of "getting started" introductory videos introducing aspects of the module and also some basic rights his/lat and mats skills mini-tutoral videos. Introductory videos introducting aspects of the module and also some basic rights his/lat and mats skills mini-tutoral videos. Interactive wire associated with a separtee SciPM project assessing a series of live online maths workshops (Nicola McIntire and Linda Thompson REF) but have been retained as a permanent resource and were recently made more widely available on the S-Science Qualification website.
51	1 AL	Feb-19	19E-CHCB- LHCSOUSA-01	Catherine Halliwell and Cath Brown	How are students using extensions and what is the impact on success?	Supporting students	Study intensity, TMA, extensions, modules, assessment, full time study, flexible study, student success	SK299, S294, S295, SDK228, SXHL288	LHCS and OUSA		Hallmell joint PL - Can an ayx:chnnous student conference in Open Studio develop students' critical evaluation skillis? Hallmell joint PL - Can a new UG Study App enhance the learning experience of students on \$350, an online only module?	May-19	Project completed	Nov-21 - with MJ for review	

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52	1 A	Feb-1	.9 19E-CHID- LHCSSPSEEES-I	Catherine 11 Halliwell and Jenny Duckworth	Can an asynchronous student, conference in Open Studio develop students' critical evaluation skills?	Supporting students	Asynchronous, OpenStudio, evaluation skills, peer-to- peer feedback, online, assessment, professional skills	5350	LHCS, SPS and EEES		Halliwell joint PL - How are students using extensions and what is the impact on success? Halliwell joint PL - Can a new OU Study App enhance the learning experience of students on SISD, an online only module? Duckworth joint PL - Challenges of assessment for a level 3 interdisciplinary module: an AL and student perspective	May-19	Project completed	Due Jan-22	
53	2	May-1	11 11H-JH-LHCS-0	1 Janet Haresnape	Evaluation of assessed collaborative wiki activity and comparison with similar collaborative online activities in other contexts	Innovative assessment	Assessment, online, collaborative, activity, wiki	S366, S295	LHCS		Skills progression in practical science within the Life Sciences	Aug-11	Project completed	Feb-17	The activity which was incorporated into 5295, which is of a similar design to the one reported here, was also intended to be a confidence-building activity which helps weaker students. It is scheduled very early in the module presentation with the aim of helping X295 students to engage with others in their tutor group, and with their tutor, early in the presentation. This should help engagement and retention on \$295.
54	10	Dec-1	L6 17E-JH-LHCS-0	2 Janet Haresnape	Skills progression in practical science within the Life Sciences	Employability	Employability, skills progression, practical skills, problem solving, Life Sciences pathway	S295, S317	LHCS		Evaluation of assessed collaborative wiki activity and comparison with similar collaborative online activities in other contexts	May-17	Project completed	Due Feb-22	
55	1	Feb-1	1 11D-CH-CC-01	Clem Herman	Career Development for STEM professionals	Academic professional development	Employability, professional development, equality, gender differences, STEM returners, careers	T160, T161	C&C	Liz Whitelegg (SPS), Katie Chicot (M&S), Gill Kirkup (LT), Abi Lewis (STEM Deanery)	Joint PL - e-Ambasadors and e-Partfolios: Exploring innovative methods to embed employability in practice based STEM distance learning Level 1 IT and Computing – where have all the women gone? Evoluciton of a community partnership approach using open educational resources: Equate Scaland and the Returning to STEM BOC Developing a strategy for an LGBT+ inclusive STEM Faculty	Apr-11	Project completed	Feb-13	During the dissemination of the project outcomes and via subsequent discussions with the Careers and Employability Project, the lessons and tracker objectives of the project have been incorprated into organing discussion and development of the Employability Strategy of the OU in general and the STEM faculties in particular. Specific examples of how the project has contributed to the development disengiovability opportunises for students (who even chi ruchuded in the project) include: • Employment related activities from TL61 are being included within the new TM122 End of Module Assessment • The TL61 Visities Eprest sativity is being taken forward into a new STEM Antonassadors project being developed in partnership with STEMNET and the OU Careers Service (and the subject of a new eSTEM project in conjunction with Nigel Meson from Science) • The transfer of learning about using ePortfolios which is being implemented in TM129
56	10	Dec-1	16 17E-CH-CC-02	Clem Herman	Gendered Choices - Motivation and Genere choices of Commoting and Tubdens: a gendered analysis	Equality, diversity and inclusion	Equality, gender differences, IT, computing, lievel I, Athena SWAN	TU100	C&C	John Woodthorpe, Janet Hughes, Esine Thomas, Helen Donelan (C&C) and Helen Jefferis (AL)	Coreer Development for STEM professionals Joint PL - e-Ambassadors and e-Portfolios: Exploring innovative methods to embed employability in practice based STEM distance learning Evaluation of a community partnership approach using apen educational resources: Equate Scotland and the Returning to STEM BOC Developing a strategy for an LGBT+ inclusive STEM Faculty	May-16	Project completed	Jul-19	The online survey showed that a higher proportion of men were already working in the IT industry, whereas more women were looking to enter that an IT related role for the first time. This suggests that studying computing and IT on its own may be more popular with students with well-defined career internios, and already student of the IT floatury, whereas the troader joint honous may be of preference to those not yet working in the industry and seen as offering wider work and skills development opportunities. However, there were also examples where women diluberately choice a containstation of subjects offered by the joint honour degree to provide entry into more specific roles, such as data science. Our findings also show that a higher proportion of women than men had a successful/ comparing. This suggests that employability in computing, even among women who have successful/ computing ability to study IT. This suggests that employability in computing, even among women who have successful/ computing. The past, or are already working opportunities; to be influenced by structural gendered barries and behaviours. As a response to the suggestions raised in the focus Group about networking opportunities; we reflected on how we could meet these media in the online and distance education context. Two new strategies have been developed to meet this need. We ran an online webhar on Ada Loveliace Day with an initide panel of senior women working in the technology sector, and over 50 students attended with a lively question and arow ersoin. Adve have recently initiated an industry Mentoring project for women students with industry as mentors working work in more mployment. We secured funding for the pilot Mentoring project mentioned above, which will involve recruiting Alumni who are already working in industry as mentors working with our women students.
57	10	Dec-1	175-CH-CC-03	Clem Herman	evolution of a consmuty, anterenho approximation and anternation constructional resources; fourte sociation draw, fourte sociation and the between the social and the social and the social and the so	Employability	Employability, equality, STEM returners, BOC, OER	1160	C&C	Katle Chot (MS5), Leslay Broadwood (The Ou) in Scotland) and Bernie Clark (E&I)	Career Development for STEM professionals Joint PL - e-Annbasadors and e-Portfolias: Exploring innovative methods to embed employability in proctice based STEM distance learning Gendered Choices - Mativation and degree choices of Computing and IT students: a gendered analysis Developing a strategy for an LGBT+ inclusive STEM Faculty	May-17	Project completed	Aug-19	a) Student experience As immediate impact of the project the women returners programme successfully supported over 60% of the pool of 40 women returners into placements, full time work in STEM to to pursue further STEM qualifications. The successful autocomes reinforce the conclusion that even within a small group of relatively similar learners, one side does not it all, and that with a marge of ways to engage with content and support, participants can personalise their own learning and benefit from whichever of the components are appropriate. In terms of the contribution of the project towards increasing student success, with the BOC at the core of Equate Scotland's Mended learning programme, participants were able to enrich their current towards ge pain accellation and develop their own individual pathways back into STEM enropheme. "In a nutbell, the programme's got me from, in the beginning, not knowing where to start, to now, in a couple of week's time, I'm going to start a 6 month placement." The model of Mendei learning in a community partnership could be adapted for other under represented groups, thus benefiting students who have not yet directly been involved in the project. In Faching In Teaching In Teaching I and and and equip partnership could be adapted for other under represented groups, thus benefiting students who have not yet directly been involved in the project. In Teaching In the mode out to a wider audience through further funding. I Strategic Change and learning deging The feducation of the journal article has enabled OU collegues as well as external scholars to learn from this model. We hope to be able to roll the mode out to a wider audience through further funding. I Strategic Change and learning deging The feducation of the journal article has an example within the OU's Women in STEM campaign – it is frequently cited in policy responses and funding bids as an example of the university's commitment to equality and diventity. The OU in Scotlan has included this as an example of good p
58	8	Oct-1	15 168-CH-WELS- 01	Christothea Herodotou	Understanding and improving students' learning experience and engagement with practica science on-line: The case of virtual and remote microscopes	Online/onscreen STEM practice	Online, virtual, remote, student learning, experience, engagement, microscopes		WELS	Simon Kelley (EEES), Eileen Scanlon and Maria Aristeidou (WELS)	Evaluating the design of the virtual microscope with students	Feb-16	Project completed	Jan-19	• A major success of this project is the collaboration with the University of Aberdeen that resulted in the implementation of a comparative study examining different teaching and learning conditions and their impact on students' perceptions. • The project requested and has been successful in securing additional funding from eSTEeM for analysing , in addition to the students' perspectives, the teachers' perspectives. • The project requeded valuable insights as to how to improve the pedsagogy around the use of VMs in online modules. These insights could inform module teams and the eSTEeM final report guidelines design or design of modules that make use of the VM. The dissemination of outcomes outside the university can combute to informing the pedsagogy in other HE institutions. • We have been is successful in accently influencing the teaching practice at the OU as committing (financial and others) made impossible the application of insights to practice i.e. improving the design of existing activities that make use of the VM in Health and Earth science courses.
59	16	Jan-2i	0 20D-CH-WELS 02	Christothea Herodotou	Evaluating the design of the virtual microscope with students	Online/onscreen STEM practice	Evaluation; virtual microscope; student learning; interface design		WELS		Understanding and improving students' learning experience and engagement with practical science an-line: The case of virtual and remote microscopes	Apr-20	Project completed	Dec-21- with TC for review	

60	6 Jun-14	14L-RH-MS-01	Rachel Hilliam	Enabling Mathematics and Statistics Associate Lecturers to achieve their potential	Academic professional development	Equality, gender differences, Athena SWAN, career development, progression, CDSA, ALS, Staff Tutor, recruitment, retention	M&S	Alison Bromley, Carol Calvert, Katie Chicot, Martina Gibbons (M&S), Emma Street (CIO) and Rosaria Gracia (AL)	Joint PL until 31 Jul 38 - Supporting the student's learning journey through the transition of mathematics and statistics from level 2 to level 3 Investigating the careers of Staff Tutars in STEM for Athena SWAN	Dec-14	Project completed	Mar-17	Associate lectures feel hagely valued and supported by their staff turo, but ALs consider the wider Open University to be distant. There is a real need to ensure the staff turb and AL relationship is maintained in order to bat facilitate an AL academic community to avoid isolation and to provide professional support for this highly stilled group of staff. However ALs also express a feeling that the wider university does not value their professionalism and, as such, there is a need articulate the wider role that ALs play in the organisation.
61	5 Jun-14	14L-RH-MS-02	Rachel Hilliam	Investigation the career of	Academic professional development	Career development, progression, Saff Tuors, Athena SWAN, equality, gender differences	M&S	Carol Calvert, Kati Chicot, Martina Gibbons (M&S.) Elaine Thomas (C&C), Emma Street (CIO), Shirley Northoer, Victoria Pearson, Jean McCoughry (SPS), Rosaria Gracia (AL)	Joint PL until 33 Jul 18 - Supporting the student's learning journey through the transition of mathematics and statistics from level 2 to level 3 Enobling Mathematics and Statistics Associate Lecturers to achieve their potential	Dec-14	Project completed	Jun-16	Recommendations - Clear definition and communication of the Staff Tutor role and the value the role plays in the organisation - Organisational commitment to ensuing good quality online access to all meetings as routine - Uigent review of the new promotion framework and analysis of feasibility for Staff Tutors to meet all the criteria Increased administrative support - The need for good quality romba access to meetings in Milton Keynes on a routine basis is a - Increased administrative support - The need for good quality romba access to meetings in Milton Keynes on a routine basis is a - Increased administrative support - The need for good quality romba access to meetings in Milton Keynes on a routine basis is a - Constant theme throughout the responses. This recommendations alione would ensure that Staff Tutors to free up time to engage more deeply with the non-managerial part of their role. None importantly it would ensure that Staff Tutors to free up time to engage more - Milton and campa, had the same opportunities as central staff to serve of committees and equality considered in all opportunities The allow soft differentiation for the serve into serve of committees and equality considered in all opportunities The same submittee is a substantial impact on the working conditions and carrer opportunities for Staff Tutors These recommendations have basis for freq intervents. First Matens 20MA group and Heads of the partners to be used in Athens - SWAN submission. The University Secretary's Office, IVC Academic, STEM Executive Dean and Strategy Office have considered - considering how this work can feed into a review of the promotions criteria.
62	lan 19	19E-RH-MS-03	Rachel Hilliam	The Mathematics and, Statistics Community of Learners	Supporting students	Student Experience, Learning Community, Student Journey	M&S	Gaynor Arrowsnith (M&S), Alexander Siddons (AS), Derek Goldrei (AL) and Cath Brown (AL, formally OUSA)	Exabling Mathematics and Statistics Associate Lecturers to achieve their potential Investigating the careers of Staff Tutors in STEM for Athena SWAN	May-19	Project completed	Dec 20	It is unfortunate that the analysics are only available for students registered on one of the mathematics and statistic qualifications. However it was clared from the analysics available that there is a stady increase in the number of students who use the study site. Early feedback gathered in the project feel into the creation of a communication strategy to highlight the study site to all students studying the MAS modules, which took the form of a science of erails over the summer months. In Spetember 2020 there was a noticeable jump in the number of students using the study site. The questionniar results show that students find all of the Discover Your Module resources helpful, both in terms of choosing their next module, making a head stat shead of the module presentation and updating their existing knowledge with the revise and refresh material. Exusuing students are studying a module for which they are well prepared helps with completion, retention, progression and astistication on knowledge about the curriculum but also directly in conversations with students. Making sue students are studying a module for which they are well prepared helps with completion, retention, progression and astistication with now hardow the curriculum but also directly in conversations with students. Making sue students are on the correct module and having this warp-around support is helpful nd just in terms of retention, but also in strengthening the link tetween the SST exam and the School. Other Schools, in particular C&C, are already using the MBAS study site as a template for updating and enhancing their own study site. A site may analy or A2 should be added to the site which is automatically updated as correct is changed. The abality to ealt the fortug age will think site, may help with having stom active the site site. 1 The way students are routed to study sites tesks to be more obvious as many students do not know thes ties exist. 1 The abality to ealthe fortug alter will be includeed for all SFF staff
63	4 Oct-12	12L-LHJRA-LTIA- 01	Laura Hills & John Rose- Adams	How it is different to before? Science student perceptions of the study experience in an era of curriculum and technological change	Equality, diversity and inclusion	Inclusivity, disabled students, science curriculum, widening participation, technological advancements	LTIA			Dec-12	Project completed	Oct-15	The mescarh found that the experience of the students taking part was similar to that which has been reported of the majority of Open University students. The Open University was chosen in response to personal circumstances and family commitments and was seen a place where study would be flexible: Cerchology had played a part in this flexibility by enabling vulcents to study in way and at times to suit. However, there was concern about the implications of the increasing use of online experimentation on students' preparedness for work. Interaction with other students was also seen as an issue and was key to perceptions of the value for money offered by the Open University.
64	14 Jan-19	19D-MH-KMI-01	Martin Hlosta	Disproved predictions of at- risk students: Some students: fail despite doing well, others: succeed despite predicted as at-risk	Supporting students	Students as-risk, OUAnalyse, Predictive Learning Analytics, Error Analysis, Interviews	KMi	Christothea Herodotou, Tina Papathoma, Anna Gillespie (WELS), Vaclav Bayer and Zdenek Zdrahal (KMi)	Joint PL - Understanding the BAME attainment ago at the OU by means of quantitative and qualitative data analytics	Apr-19	Project completed	loct-20	We aimed to include different types of suggestions on how to deal with the limitations of the predictions in the future: 1. Enhancing the predictive models with data that is aircady collected at the UQ ven not captured in the predictions. 2. Recommendation to collect new data, which might be relevant for predictions. 3. Possible intervention strategies for students to escage from being at-risk to succeed. These can be also fed into the developed personal study recommender. 4. Set of possible insures to pay attention, which can be made available to tutors and students at the beginning of the module. The set of possible issues to pay attention to as well as the link to the report is now being incorporated in the new training materials for ALs and will be available in the Tutors' induction information in TutorHome and referenced from OUAnalyse das/board directly. Despite the short time that the research has been available to far, it has attracted attention. It has been referenced by Simon Buckingham Shum in his blog post Should predictive models of student outcome be "colour-blind"? (5), where he stresses the importance of models and errors understanding.

65	14	Jan-19	19E-GH-EI-01	Georgy Holden	Cualification Study websites: gotake and practice	Qualification, study websites, student engagement, learning communities		E&I	Derek Jones (E&i) and Nicole Lotz (E&i)		May-19	Project completed	Feb-21	The recommendation would be that all Subject ties are available to students, or potential students, as early as possible - this could be achieved by relevance permissions across the different elements of the site. Considering the current content of the Subject sites there are no obvious reasons why the majority of information should not be publicly available. A further recommendation would be to consider using the subject site as the student's landing page instead of StudentHome, in other words to reconceptualise the site as the spine of the study journey. A recommendation would be thether students should be able to opt for access to a subject site when they first sign up to the OU or they should be automatically allocated to one related to their first module with the option to change sites if automatic allocation does not reflect their interests. This has been an evaluation of existing sites; however, it is hoped that looking at these sites and making the comparisons between them in their use and success might inform future practice which might in turn have a beneficial effect on student learning. The use of these sites has the potential to improve retention and to help students to chart and ancialate their employability throughout their studies. The recommendations in the conclusions above point to the need for increased visibility of the sites and universal access.
66	13	Jul-18	19A-CH-MS-01	Chris Hughes	Evaluating the accessibility of Equality, diversity an alternative format of module materials in Maths & Stats	Accessibility, RNIB, assistive technology, DAISY talking books, print-disabled students	MU123, MST124, MST125, M140, MST210, M248, ME625, ME627, M208, MST224, M249, M303, M337, MT365, M343, M346, M347, M373, MST326, MS327, ME626, ME825	M&S	John Clarke (AS), Chetz Colwell (WELS) and Kaye Williams (LDS)	Jaint PL - Sonification of depictions of numerical data Jaint PL - Sonification partial plict on M140 Jaint PL - Usage of Early Alerts Indicators on two level 1 modules Jaint PL - Welsh-medium tuition in Level 1 Mathematics	Jan-19	Project completed	Feb-20	Based on the results of this project we recommend that the school of Mathematics and Statistics adopts this alternative format across the curriculum in addition to its existing outputs. We propose that the output be named DAARA: Designed As A Reasonable Adjustment.
67	15	Jul-19	19J-JHAW-CC-01	Janet Hughes and Ann Walshe	Investigation, the detectived. Supporting students benefits to convolute, students, of remote pair programming	Pair programming, distance learning, community	TM112, TM129, M250	C&C	Brendan Murphy and Robert Law (ALs)	Walshe joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders Walshe joint PL - Towards A Structured Process for Involving ALs in Module Tuition Strategy Design and Review	Oct-19	Mar-21	Oct-21	This monce pair programming project was designed to explore the non-technical benefits of different methods of experiencing remote pair programming. Results indicate that studens prevelved that working remotely with andher studen increased their verbal communication skills and their ability to collaborate, problem solve, make decisions, and take initiatives — and slightly enhanced their sense of learning from others. Paradoalcally, the area which most merits further support is in feding connected to others in a module, which is a key issue for Open Iniversity students and for others in ducation in a locked-down pandemic wordt. However, other benefits identified by participants related to reassurance, mentoring, and learning to ask for hep- and slug that inclusions were keen for further understanding of the experience of programming in the real wordt. We provide recommendations for module teams and tutors to consider when designing remote pair programming experiences.
68	10	Dec-16	17E-RJEMEFJI- LHCSWELS-01	Rob Janes, Elaine Moore, Elizabeth FitzGerald and Jo lacovides	Utiliarius Iba. Teaching, Ticky, Toole groots to Monthly and Address Student, Wounderstandings across, Three OU Modules	Tricky typics, conceptual misunderstandus, barriers, threshold concepts	5215, MST124, H880	LHCS & WELS	June-Barrow-Green (M&S) Rebecca Ferguson (WELS), Claire Turmer (LHCS), Anne Pik Lesley Boyd (WELS), Anne Pik (RES), Tom Olney (STEM Deanery), Leadership (RES), Tom Olney (STEM Deanery), Leadership Leadership Digital Innovation team led by Allison Utiteljohn and Will Woods and LTI Translation (TBC)	Moore - Students' study of online modules Janes joint PL - Using technology-enabled learning networks to drive module improvements in STEM Janes Joint PL - Blending labcats and remote/virtual experimentation: students' perception in practical skill development alternative	May-17	Project completed	Jan-19	The workshops lead to the identification and prioritising of key Tricity Topics by the module team and ALL. The module team were saled to consider upting in place mere interventions into their modules to advess one or more of these Tricity Topics. This was underprinned by the ambition to help students increase their understanding and lead to higher student success rates/satisfaction and progression. Results of the project are mixed, with very positive results from one particular module (\$215), and more ambiguous mostlis from the other two modules (MST124 and H800). However, the process itself has been evaluated and shown to produce excellent outcomes, when key elements an in place. Them sort circital of these we have identified is the engagement, or buy-in of the module chair(s) and also the ALs; however this is heavily related to, and dependent upon, available time in which to put in place any subsequent interventions.
69	1 AL	Jul-19	19i+ii-CC-01	Helen Jefferis	All change, but does tution in. Supporting students cluster groups work?	Tuition, cluster groups, level 1, digital experience	TM111	C&C	Chris Gardner and Frances Chetwynd (C&C)	Jaint PL - Visualising the code: are students engaging with programming at level 1?	Oct-19	Project completed	Sep-21	One of the key findings was that several students were confused about tutorials. This confusion included not being sure where to find out about totalist, seperiting most tutorials to be released during the module and not being avere that they could attend tutorials without booking. There was also confusion about the naming of tutorials as students fift this did not give them a clear idea of what would be covered. In addition, some students were nour on of the purpse of futorials; this confusion was expressed by both new and confinuing students. It is therefore recommended that module teams provide much clearer information to students about tutorials e.g. how to find hem; the need to book (or not) and the content and purpose of tutorials; it is also clear that booking tutorials to far in advance meant that students were often unable to attend the tutorial, either because they fogot to facease they had other comminents. The automatic reminders about the tutorial swee not always helpful, with some students not noticing them and others finding they came too sarly. It is therefore questionable whether providing a list of all the planned tutorial is plant at the sturt of andulue is nally an advantage to students in addition arranging tutorial times jos far ahead ato means that tutors are unable to respond to the particular needs of a student cohort as all their tutorial hours are already allocated. Students student that they expected to book tutorials throughout the module; however, without prompts and reminders it seems likely that many forget to do this. Traditionally OU tutorials have happened on weekday evenings and on Sturdays. However, for both new and continuing students there was no clearly forvaored time or day for a tutorial students (if they had attended any tutorials that were not ago use of their study time. Whils a few had some criticismo secang students field that the tutorial contravely of times and days to cover all students, requirements. Twould be good to make this much clearer to all students as e
70	2 AL	Mar-20	20H-KJ-CC-01	Katharine Jewitt	A review of the use of Office 365 and Adobe Connect for active learning by ALs tutoring on T227 and TXY227	Digital skills, digital technology, AL development, building digital capacity, sharing digital experience	T227, TXY227	C&C			Aug-20	Project completed	Due Feb-22	

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71	1 AL	Feb-19	19G-BJ-EI-01	Barbara Jones	Online module forums: espoused, actual and improves	Supporting students	Forums, asynchronous discussion groups, asynchronous messaging, tutor interventions, peer-to- peer interactions, tutor-peer interactions, forum moderation, computer- mediated communication	T313, T317	E&I	Anno-Mario Colton	bist B Barration: Expeription and Evanisation of Cover Visitive	Jul-19	Mar-21	Jul-21	It has certainly proved possible to collect and analyse message content and metrics in the TMA/RMA forums in T313 and T317. An emergent outcome is a framework for analysing large module forums which can be applied to any forum messages in any modules and faculties.
12	2		10-21-2-UI	melik julită	na creaning per tate in unified microtrouts utilitation by peer observation, feedback and, reflection	STEM practice	Unite precise, pret dosrvation, pre-support, feedback, reflection, synchronous tution, student engagement, ALs, teaching practice			(E&I), Sid Bedikoglou, Mario Campanelli, Iain Chapman, Grahame Danby, Anthony Jones, Ian Malcolm, Craig McFarlane, Sam McFarlane, Sam Nolan, Roberts, Gillian Stansfield, Thomas Wilks, Stan Zochowski (ALs)	Control Con		completed		In context of providing staff development for teaching practice using this medium. While the study set out to explore per observation in an online setting, it is important to stress that the key issue is the facilitation of effective development, rather than the promotion of peer observation press. This is particularly perform in an educational environment, where peer review is taken as indication of the commitment to institutional quality assurance: "Peer review' risks becoming the goal, rather than a means, to achieving more meaningful developmental goals.
73	11	Jul-17	17J-MJ-SPS-02	Mark Jones	Online Team Investigations in Science (OTIS)	Online/onscreen STEM practice	Online, teaching, team, investigations, student engagement, pere-leaming, assessment strategies, Mars Rover simulation, PIRATE robotic telescope	S382, S818	SPS	Susanne Schwenzer, Ulrich Kolb, Judith Croston and Sheona Urquhart (SPS)	Developing practice in online synchronous tuition by peer observation, feedback and reflection Joint PI - Perceptions, Expectations and Experience of Group Tuition: thwards a shared understanding amongst stakeholders Joint PL - Perceptions, Expectations and Experience of Group Tuition: thwards a shared understanding amongst stakeholders (part II: the student perspective) Joint PL - Evaluation of Assessment and Tuition Changes for 5284 Astronomy	Oct-17	Project completed	Due Feb-22	
74	4	Oct-12	13E-SJ-SPS-01	Saliy Jordan	Thresholded assessment. Doer	Innovative assessment	Assessment, summative, formative, thresholded, TMAs, iCMAs	SK277, S141, S207, S240, S382, S383	SPS	John Bolton (SPS), Lynda Cook, Saroj Datta, Jon Golding, Janet Haresnape, Kerry Murphy, Ruth Williams (LHCS), Richard Jordan (external consultant) and Karen New (AL)	Concept inventories in physics: from development to impact	May-13	Project completed	Sep-14	• Many students and ALs have a poor understanding of our assessment strategies, including conventional summative continuous assessment. This is in line with a frequently found result that students have poor understanding of the nature and function of assessment. Now evidence has been seen to support a return to summative continuous assessment. However, it has rightly been pointed out that examinations cannot authentically assess all aspects of university-level skills. The use of two components contributing to the "overall examinations cannot clubentically assess all aspects of university-level skills. The use of two components contributing to the "overall examinations cannot clubentically assess and prepare for both components.
75	2	May-11	11H-КК-СС-01	Karen Kear	Online Presence for Learning and Employability: students' use of profiles in social networking environments	Employability	Employability, online, student, community, profiles, social networking, Facebook, LinkedIn,	TU100	C&C	Frances Chetwynd (C&C) and Helen Jefferis (AL)		Aug-11	Project completed	Jan-14	The findings suggest that personal porfiles and photos in Model forums helped some students to feel in ouch with each other. Others, however, did not feel the read for these facilities, had yinkay concerns or gretered to focus on the forum postings. Students also had phyacy concerns in relation to social network sites, although their concerns were allayed somewhat after studying material on social networking in TUIO0. These findings will inform the design of the replacement module using what has been learnt from the project and also the experience of teaching the previous module to help students to understand about online social networking and how it relates to employment and also to their educational experience.
76	7	Feb-15	15F-CKPS- LHCSWELS-01	Claire Kotecki & Prithvi Shrestha	Academic literacy and communicating assessment to students in useful science module: building the foundations for retention and progression	Innovative assessment	Assessment, terminology, academic literacy, retention, progression, level 1,	S111, S112	LHCS & WELS		Single component assessment on Level 1 science modules: a quantitative and qualitative evaluation of the assessment journey from TMA to Feedback	Jun-15	Project completed	Aug-19	We make the following recommendations based on the findings of this study: • Softmaw with the good partice of being assignments simple to begin with and gradually make them more sophisticated • Broulds clearly the word limit for each question • Bevelop and embed academic literary and or scientific literary materials in level 1 and possibly Level 2 for students on how to write explanation, discussion and reflection texts in science and if possible build on what has been done in Y033 (this may include providing good examples of these text types in the short term) • Bonduct student needs analysis in terms of their scientific literacy and academic literacy regularly via module surveys • Bonduct trademic meds analysis in terms of their scientific literacy and academic since modules with regard to their academic and scientific literacy to inform future module designs.
77	1	Feb-11	110-564-CC-01	Soraya Kouadri Mostéfaoui	Assessing hternative model." elements: there a generic, model?	Innovative assessment	Assessment, framework, non text-based, media artefacts	7215	C&C	Judith Williams (C&C)	Joint PL - Visualising the code: ore students engaging with programming at level 17 Skint PL - Supporting Degree Apprenticeship students: Tutors' and Students' perspectives Joint PL - Are You Ready for Your Studies - Are we Assessing Students Readiness? An evaluation of the usefulness of the Level 2 ARFY quizzes Joint PL - Using Bitesize Videos to Enhance Students' Experiences in a Level 2 Programming Module Koudard Mostleoui - Assessing 'alternative media' elements: is there a generic model? Kouadh Joint PL - Modern Container-based Learning Interface and Delivery Infrastructure (MCLID) Kouadh Joint PL - Andysis of COVID-19's impact on BAME students' attainment (A case study of Level 1 C&C Open University modules)	Apr-11	Project completed	Jan-13	The main findings are that the T215 model has potential to provide a flexible and consistent way of assessing a wide range of alternative media artefacts. In its current from it tacks the facility to assess the artefacts holitschulp but this can be addressed by slightly modifying the existing model's criteria. However, the T215 model can be difficult to retrofit and is not easily applicable to process-based assessments.

78	11	Jul-17	17J-SKM-CC-03	Soraya Kouadri Mostéfaoui	Supporting Degree. Apperticeship students: Tutors' and Students' perspectives	Supporting students	Apprentice, student support, tutor support	TMX130, TMXY130	C&C	Christine Gardner (C&C)	Assessing 'olternative media' elements: is there a generic model? Paving the Way Towards an Extended Assessment Model Joint PL - Visualiting the code: are students engaging with programming at level 1? Joint PL - Modern Container-based Learning Interface and Delivery Infrastructure (MCLID) Kauadri Mosteffaoui Joint PL - Analysis of COVID-19's impact on BAME students' attainment (A cose study of Level 1 C&C Open University modules)	Oct-17	Project completed	Aug-21	The results of this sSTERM project (our small-scale research study for level 1.0 A modules), have highlighted certain difficulties that apprenticeship students face in the rate of assessment on work-based learning modules. This has informed discussions with module teams of DA modules within the C&C school and at a wider faculty and University levels. We will hopefully continue to do so through various channels. The project also de loo initiatives such as assessing the usefulness of the provision of day-time totorials. This project has also inspired Christine Gardner to research the topic of appenticeship assessment to more depth, in the context of the EGD studies. The fining have heiged Christine shape here search questions and informed research methodology. Moreover, following on from the project, Christine Gardner was also invited to join the RPEL (Recognition of Prior Experimential Learning) group and has been involved in implementing RPEL for the C&C apprenticeship programme.
79	7	Feb-15	15F-AL-EI-01	Andy Lane	The impact of technology on the teaching and assessment of 'systems diagrams'	Technologies for STEM learning	Diagramming, technology, systems thinking,	T219, T319	E&I			Jun-15	Project completed	Jan-16	It was found that few students seriously used diagrams before their study of the modules; that they were either enthusiastic or sceptical about their value although most sidd by would use them in future; that the nucleor of diagrams and the technologies used to create and share them were often burdensome in the two modules investigated; and that the group work could provide a better experience for using diagrams but that this too could be blighted by timing and technical issues. In addition many students dialised the mainly online delivery of the two modules, wanting printed books; and would like to have seen face to face to tack where diagrams could be created and discussed. Open Design Studio has net proved helpful as a sharing technology compared to other modules and more work is needed to understand this and to find a technological solution that does suit students and ALs alike to compensate for the lack of face to face events.
80	7	Feb-15	15F-NL-EI-01	Nicole Lotz	Are we making progress? Progression through learners' Interaction In OpenStudio across a qualification	Technologies for STEM learning	Progression, OpenStudio, students' interaction, student learning, design and innovation, engagement, professional skills	U101, T217, T317	E&I	Derek Jones and Georgy Holden (E&I)	Developing a sense of community through crass-level engagement between staff and students in creative industries subjects Joint PL - Understanding the mental health attainment gap in Design modules	Jun-15	Project completed	Oct-17	The findings have impact on efforts to improve the student experience across the qualification, including designing module specific inductions to OperStudio, the refessing of modules and Uperstudio module activities in the qualification, and the implementation of the Student Advisory Website. A wider audience of STEM academics and LTI staff benefitted from the project findings in the workshop which took thinking beyond the implementation of OperStudio in Individual modules to think about progression strategies across a qualification. Finally, the project opened up new avenues for collaboration with external academics and bidding for external funding to investigate the design of social online learning environments in design and innovation.
81	11	Jul-17	17K-ML-EH-02	Nicole Lotz	Developing a sense of. community through to cos-level engagement between saff and students in creative, industries subjects	Supporting students	Community of Inquiry, Student Engagement, Students as Partners	ULOI, T217, T218, T317	E&I	Lua Bowen (E&I), Benie Clark (E&I), Arama Chowdhwy (E&I), Genzy Holden (E&I), Derek Jones (E&I), Derek Jones (E&I), E(E&I), Theodor (E&I), Theodor (E&I), Teal (E&I), Teal (E&I), Teal (E&I), Teal (E&I), Teal (E&I), Teal (E&I), Teal (E&I), Teal (E&I), Teal (E&I), Tean Groupe (E), E(E), Teal (E), Teal (E), Tean Groupe (E), E(Are we making progress? Progression through learners' interaction in OpenStudio across a qualification Axin PL - Understanding the mential health attainment gap in Design modules	Nov-17	Project completed	Jun-20	Bringing staff, faculty and students together in cross-level engagement events and working as partners in organising and running these events offered an accellent experience for everyones. Students fit annex confident about their study direction, stills and abilities, and they became more aware about their progression pathways. Students glained experiences that proved valuable for employability and building their CVS. Moreover, some students became advocates of the ugalification to their study direction, buildin, community building aspect of the cross-level events has been embedded as an ongoing process and is now considered routine by the Qualification team. This project bad a strategic change in mind from its onset, but was taken by surprise about the real impact it has achieved in this area. We were able to secure MSQ funding to investigate a second year of trials, exploring different locations and types of events. We were then able to secure MSQ funding to investigate a second year of trials, exploring different locations and types of events. We were then able to secure School funding to investigate as second year of trials, exploring different locations and types of events. We were then able to secure School funding to investigate as second year of trials, exploring different locations and types of events. We were then able to secure School funding to investigate as second year of trials exploring different locations and types of events. We were then able to secure School funding to investigate as second year of trials. The project already had wide-ranging impact on strategic change of how the curriculum is delivered. "Juure events the useng School funding the coss-level events for the coming year will trial employability workshops to offer student applied experience in solving real world problems through design thinking. These events facilitate the generation of new ideas for the "BDes", our new Design Qualification, with a true cross-level and qualification wide approach to is curriculum
82	10	Dec-16	17E-HM-LHCS- 01	Hilary MacQueen	factors affecting student success in the Workplace	Employability	Higher education, Distance learning, Work-based learning, Student experience		LHCS	Fiona Aiken (EEES		May-17	Project completed	Sep-19	 Student experience: the Foundation Degree in Paramedic Sciences has been discontinued because professional requirements have changed and the entry qualification for a Paramedic is now a Bachelor's degree. Thus any benefit to students from this work will affect future students on cognate qualifications. Neverthelese, we believe that the impact of our findings could be significant for students if our recommendations are implemented, giving them a better learning experience and thus enhanced success in their studies and careers. Teaching: our findings have fed directly into plans for a Laboratory Scientist Apprenticeship (STEM Faculty), and the module team for the WBL components of this qualification have spectroconsiderable time and effort to design a student support framework that will improve their workplace experience. We have also disconting/scientist to colleagues elsewhere in the 0.0, and our project has been used as a case study on the Emolychiphic Hub Hub: Cylomosi, Danach. Adv/course/view.ph/di-30080&Cmin:153516. We hope that as a result of this our findings will guide colleagues' plans as well. Outside the OU, we presented our data at an international correance (Dath CEDK Research Workhong, Rateciena), Meret Was well received by teaching practicones. The work has already benefitted the STEM Faculty's practices, and we anticipate it being useful to colleagues elsewhere in the University. We have received no additional funding so far, but the publication of our findings in a peer-reviewed Journal (see below) has resulted in an invitation carmine studes thesis for Central University. Beater equilibrium and Hilany MacQueen have been asked to act as reviewers for the journal Higher Education, Suils and Work-Based Learning.
83	4	Oct-12	12L-NMCH- SPSCC-01	Nigel Mason & Clem Herman	e-Ambassadors and e- Portfolios: Exploring innovative methods to embed employability in practice based STEM distance learning	Employability	Employability, e- ambassadors, e-portfolios, STEM Ambassadors,		SPS & C&C	Rosaria Gracia an Rachel Ferris (ALs Clare Riding, Wendy Woolery (AS), Diane Butler, Claire Rothwell (LHCS)	i Herman - Career Development for STEM professionals Herman - Level 1 IT and Computing – where have all the women gone? Herman - Levaluation of a community partnership approach using appen educational resources: Equate Scotland and the Returning to STEM BOC	Dec-12	Project completed	Jul-13	Students expressed their support for both face-to-face and online asynchronous and synchronous ways of communicating with each other, with the course team and with employers. The main proposals put forward included the opportunity for peer conversations and mentoring, interdisciplinary mork within courses, retendings with students, professionals and adaedmexts, a forour peer at different times of the year, career planning using the careers advisory service linked to job centres; provision of nodice boards for information; industry webranes; links with the National Vocational Qualifications (WCOS) yestem to add to qualifications; access to careers fairs, and more opportunities for face-to-face practical class opportunities. This report highlights the importance of the relationship between the QU and prospective employers, inclusion of module teams in responding to employability concerns, and maximisation of both student and tutor skills as well as specific tools that could support students' employability.

8	4 13	Jul-18	18K-SM-MS-01	Sarah Mattingly	Developing programming problem-solving skills using individualised screencasts	Technologies for STEM learning	Programming, problem- solving, TMA feedback, screencasts	TM111, TM112	M&S	Christine Gardner (C&C), Richard Walker (AL)		Nov-18	Project completed	May-20	At the outset of the project we felt that the findings may have the potential to inform other modules in which problem-solving and/or programming feature. However actual feedback was that tutors and students found the greatest benefits of screencasting to be closely alled to the visual nature of the programming environment OUBUAL which is unique to 10111. It is not clear how that would translate into text-based programming languages such as Python used on TM112. Hence, we intend to continue to promote and develop individualised screencesting for TMA feedback on TM111 and explore more cautiously the possible extension of screencasting into other modules. We presend a postre on this project at the 2020 SETEM conference. Discussion with participants indicated interest in pursuing individualised screencasts for TMA feedback on other computing modules; and in assessing whether students with text disabilities (dyslexia etc) might particularly benefit from screencasts. We intend to discuss and pursue these ideas further as appropriate
٤	5 13	Jul-18	198-EMKL- EEESRES-01	Elaine McRhesson and Kate Lister	Engaging stakeholders as experts in the trial and evaluation of Disability. Language Gudance	Equality, diversity and inclusion	Inclusion, disability, Ianguage, accessibility, education, support, participation		EEES & RES	Anne-Marie Gallen (E&I), Victoria Pearson (SFS), Tim Coughan (WELS), and Trevor Collins (KMI)	McPhernon joint PL - Prooctive support for students to make the transition from print material to online study McPhernon - Investigating the mativations of femole students choosing an open versus named dualification McPhernon joint PL - Accessibility and inclusion in tuition (AcciT)	Feb-19	Project completed	Aug-21	This report has presented an account of how, building on precursor studies and adopting a participatory approach, an issue was identified, researched, and steps were taken to address it in practice through to c-reated and co-refined guidance. A key factor throughout this project has been the participatory approach. This has been of incalculable value to the project and has been an extremely value systemice for the project throm. Stakeholders rules data variety of issues that enhanced the guidance and would not have been identified from the research alone. This collaboration and participation strengthened the research and was extremely valuable in supporting the application to particle. Engagement throughout the project has also been a positive experience for the student and staff stakeholders. Both students and staff commented on how pleased they were to be involved and consulted, and both groups have demonstrated a sense of ownership over the outputs, promoting it to peers and colleagues. This sense of ownership is likely to be a direct result of their participation in the project. Using a participatory approach to turn research findings into guidance for practice, and engaging stakeholders as experts in this highlights the need for researchers to listen to and collaborate with subents and practitioners when translating research into practice, stangble benefits to research design and application to practice can be gained, as well as modelling positive ways for researchers, students and practitioners to work together and learn from each other.
8	6 6	Jun-14	14J-SMTA- CCEEES-01	Shailey Minocha & Tom Argles	Evaluation of The OpenScien Lab's 3D Virtual Skiddaw application	ce Technologies for STEM learning	Virtual Skiddaw, virtual fieldtrips, VTF, virtual fieldwork, environments, 3D, 2D, OpenSTEM Lab, app		C&C & EEES		Argles - Geospatial technologies in distance learning and teaching in Science	Oct-14	Project completed	Oct-19	We would prefer to see VFTs being used to support, enhance and extend physical fieldwork to that students can make the most of their time out in the field. We perceive VFTs an invaluable ald in the goal to maintain physical fieldwork in the curriculum - at all levels. The discussion and examples on VFTs in this and other sections of the report are from Geography, Geology. Environmental Sciences and Biology - disciplines that have a long tradition of physical fieldwork and first-hand experience of phenomena out-of-doors - and these disciplines have been our focus in this project.
8	7	Jun-14	14-EM-URS-0	Elaine Moore	Students' study of online modules	Online/onscreen STEM practice	Online delivery, onscreen, onscreen, modules, student experience, perception, online activities	S206, S209, S215, S217, S295	UKS	Viki Haley-Minar, Vicky Taylor (LHCS), Julie Robson, Kadmiel Maseyk (EES) Catherine Halliwell (AL), Bob Everett, Jim Moffart and Richard Moat (E&I)	Joint PI - Online Chemistry Support Clinics	Dec-14	Project completed	Aug:17	The main changes to modules in response to feedback from this project, forum postings and SEAM surveys are: 2006/SY206 – 1) Including link to Studying online in StudentHome in the module guide. 2009 – 1) Linking to a Virtual Microscope screencast much earlier in the module. 2) Shifting an activity using Visible Gology (an external website tool) earlier in the module, and creasing a screencast on how to use the tool 3) Link out to arsource on using Excel (from Physics) 4) Addition of larger image option for several more figures 5) Provide earlier home for Erizats, ather than just on forums 6) We will also provide links to the "Studying online" material- not sure where as yet, possibly in the Module Guide but maybe also in the Study resources section. 5215 – 5215 – 1) Including link to Studying online in StudentHome in the module guide. 4) Adding document giving advice to students from students on the Idu presentation. 5) Joined to Studying online in StudentHome in the module guide. 4) Adding document giving advice to students from students on the Idu presentation. 5) Joine task to students studenthome in the module guide. 4) Adding document giving advice to students from students on the Idu presentation. 5) Joine task to Studying online to website. 6) Spelling out exactly what students are supposed to study each week and giving an estimate of time taken. 529 – 1) Introduction of a template for navigating the site and making notes. 2) Amended items on SJI website in real time. Mark amended items by cossing through title on link.
8	8 10	Dec-16	17E-CMSO-EI-0:	Carol Morris and Sally Organ	Engineering qualifications at the OU – what motivates women to study?	Equality, diversity and inclusion	Equality, diversity, engineering, female students, intentions, Athena SWAN, level 1		E&I	Kim Littlewood and Moira Dunworth (ALs)	Morns Joint PL - Understanding factors influencing BAME students' achievements within Engineering and Innovation	May-17	Project completed	Oct-19	The significant findings from the project will inform future curriculum developments – case studies need to reflect the spectrum of prior experience of al students, not only those who already work in engineering roles. Extra support has been put in place for female students, eg annual conference to celebrate International Women in Engineering Day, networking through a dedicated Women in Engineering forum, currently working with employers to find potential mentoring opportunities for final year students, working with Careers and Engiophality to encourge student placements, Women's Engineering Society student group established. The E&B Schole has gained a Royal Academy of Engineering Visiting Professor for Transforming Engineeering Cultures' (Carol Morris is Co-1). The outcomes of the project are informing the work of the Visiting Professor on inclusion. This will be of benefit to all future engineering students.

89	13	Jul-18	18K-FMIKN-LHCS- 01	Fiona Moorman	Online journal clubs in distance higher education: an opportunity to develop suits, and community?	Online/onscreen STEM practice	Journal club, online, adobe connect, presentation, PROMPT, community	5112, 5294	LHCS Hazel C (STEM (Ehurch Deanery)	New - Use of augmented reality in a second level human biology module: benefits and challenges Summer Series of Journal Clubs: an opportunity to develop employability skills and a sense of community amongst students in secure environments STEM ISSS - where are we now? Evaluating awareness, usage and effectiveness of Individual student support sessions An evaluation of use and impact of zero grades in assessment; are w being consistent, fair, and transparent?	e e	Project completed	jan-20	The findings from our facilitator focus group indicated that our practitioners valued the OJC experience in terms of their own development. Feedback suggested that the experience was transformative for their A practice, resulting in their tuition becoming more facilitative with a student-centered approach, nather than being solely tuinc-lef A Facilitators uggested that the experience of the student-led ethos of OJC might be of interest to the wider AL community, and accordingly we propose that offering this opportunity to a wider AL audience may provide opportunity to influence AL teaching stude. A teaching stude and learning Conference, (Luiy 2013), Additionality, we have had extendin equiviers from the University of Swanea about our OJC experiences and approach. We hope that this interest may lead to incorporation of OJC models into tuition at other higher education introvative model of facilitative teaching and learning Conference, (Luiy 2013), and that we had extendie equivales from the University of Swanea about our OJC more than an example of best practice in the 2019 Quality Monitoring and Enhancement (QME) Board of Study reports. Our innovative model of facilitative teaching and learning conference of Study reports. Our innovative model facilitative teaching and learning conference on the UNES Study reports. Our innovative model facilitative teaching and learning of Unitary resources bing addet to the OJC website and hasting of adverts for OJC events on the library Training and events page. The innovement of Curriculum Manager Hazel Church facilitated creation of our dedicated OJC website and quital collaboration of ING to Direct academic currency and deepen connections with cher ALs as and a sander community. AJC Curring throws and collaboration complement may be website, suggests that provision fo badged ontit OL website and autical collaboration for the site of the INT example. discussions with content is support study skill development may be webcamed by time for collegized discussi
90	16	Jan-20	20E-VM-WELS- 01	Victoria Murphy	Students' support networks during lockdown	Equality, diversity and inclusion	Social network analysis; student support; mental health; COVID-19; longitudinal		WELS Eileen S (WELS), Lister (F Laura D	Scanlon J, Kate (RES) and Dean (AL)		May-20	Project completed	Due Feb-22	
91	5	Sep-13	13L-SNST-EI-01	Suresh Nesaratnam and Shahram Taherzadeh	The use of smart phones to enhance teaching in environmental engineering and environmental science modules.	Technologies for STEM learning	Smart phone, apps, environmental science, engineering, noise measurement, water quality analysis		E&I		Pilot trial of a smart phone App for ascertaining water quality	Dec-13	Project completed	Sep-14	This report has shown that there are serveral apps available that can be used in the field of environmental monitoring. Two of the apps were tested by novice groups of users. The apps, many of which are free, can be incorporated into the teaching of environmental engineering and environmental science. Importantly, the apps can be used in teaching communities to generate real-time data that can be uploaded to a central server and can then be available for others to use.
92	12	Jan-18	17F-SNST-EI-02	Suresh Nesaratnam and Shahram Taherzadeh	Pilot trial of a smart phone App for ascertaining water quality	Technologies for STEM learning	Smart, App, water quality, practical activities, practical skills	T868	E&I		The use of smart phones to enhance teaching in environmental engineering and environmental science modules	Jun-18	Project completed	Mar-19	The use of smart phose Apps promises potential for skills development amongst students studying technological subjects. For T868, these Apps can be amens of acquiring environmental data from diverse regions, and this data can be used towards teaching environmental engineering. It is best if bespoke Apps are created specifically for use on the module.
93	13	Jul-18	18K-KN-LHCS-01	Karen New	Use of augmented reality in a second level human holdow, module: benefits and, challenges, challenges,	Technologies for STEM learning	Augmented reality, AR, biology, student perspective, practitioner perspective, SK299	Sk299	LHCS Kerry M Lynda C	Aurphy and Cook (LHCS)	Joint PL - Online journal clubs in distance higher education: an opportunity to develop skills and community? Joint PL - STEM ISSS - where are we now? Evaluating awareness, usage and effectiveness of individual student support sessions Joint PL - Summer Series of Journal Clubs: an apportunity to develop employability skills and a sense of community amongst students in secure environments Joint PL - An evaluation of use and impact of zero grades in assessment; are we being consistent, fair, and transparent?	Nor-18	Project completed	Apr-20	As primary stakeholdes, the results of the project have been discussed with the Module Yeam Chair (Kerry Murphy) and the author of the Cardiovascular projec (Lyndi Cock) to consider impact on teaching strategy. The results suggest that some students may have found downloading and running the Heart App challenging, and as a result, the instructions associated with the Heart App within the Opencience Laboratory have been medic clearer. It may be the case that none this initial step is made clearer to students, there will be an impact on later experiences. These instructions will also need clarification with the Apple App Store, as the Heart App tailable to a wider audience beyond the OU – this will impact users outside of the confines of the module. As the mojority of students who responded to the 181 and 171 student survey: reported that they had not used augmented reality applications before, a short video has also been produced, which will be added to the St039 module website, to clearly demonstrate to students what the theart App build to like, when it is nongline final Amounds. This should remove any uncertainty as to whether the leart App proteomically, the check knoces and radio buttons have been mainstained on the module website, and it is anticipated that these will be collected data each year, to assess usage of the Heart App. This project found that over three quarters of students they the use of hew technologies. This project found that over three quarters of students reported that they would like to see augmented reality used more for this specific those of that. As may not necessarily be aware of the Heart App ad as a result of this, as Link Staff Tutor for St0299, in conjunction with the Module Team, we will provide further guidance to encourage them to use the Heart App themselves, to help them appreciable the student superience. Als will also be encouraged to post a message in their tutor group forums, to support students use of this learning tod.
194	14	Jan-19	129-KNIMIG- LHCS-01	karen New, Fiona Moorman and Hannah Gauci	summersenes of Journal Closes an opportunity to develop employability skills, anonest students in recure environments.	supporting students	sole, secure units, prisons, journal club, skills, community		LULS LUN S Wider O Team (/	cott and the DU SISE AS)	usuci joint r Assessing the effectiveness of the induction process for novice Associate lectures in the School of Life Health and Chemical Sciences in preparing them for the Associate Lecturer role Gauci joint PL - Impact of Introducing new practical and dataset impact options the science undergraduate capitane project module (3580) Gauci Joint PI - Evaluating a new STEM AL Induction programme New - Use of augmented reality in a second level human biology module: benefits and challenges New and Moorman - Online journal clubs in distance higher education: an apportunity to develop skills and community? New and Moorman - STEM XSS - where are we now? Evaluating awarness, usage and effectiveness of individual student support sessions New and Moorman - An evaluation of use and impact of zero grades in assessment; are we being consistent, fair, and transparent?	μ ι μ ι 19	vrojet completed	Jan-21	In done to incorporate subsert voice into Summer Series events, students were also asked what could be done to ingrove Summer Series journal club events, and over hindings suggest that students are keen to take advantage of opportunities for educational activities and tatch summer Series events may provide the incenhains in covaries douctation Saffres (educational activities and tatch summer Series events may provide the incenhains in covaries douctation Saffres (educational activities and tatch seems to be in alignment with Crabbe and James (2016) who, although taiking about accredited course, suggested that a series of very short courses, not necessarily academic, might provide transferable skills aiding future employment.

95	5	Sep-13	13L-VN-EEES-01	Victoria Nicholas	Gathering student perception about online/distance practical science at level 1	Online/onscreen STEM practice	Online, practical science, student perception, level 1	\$141, \$155	EEES	David Robinson (EEES), Steve Swithenby (LHCS) and Jane Kendall- Nicholas	Gathering student perception about online/distance practical science at level 2	Dec-13	Project completed	Feb-16	The interviews confirmed the anecdotal evidence that students felt more positive about studying practical science online after they had studied the modules and 71.2% of students were pleased that they participated in the module. High precentages of students agreed that they were able to carvo out practical science when it suited them and that they were able to design experiments and draw conclusions from experiments with other distance learners. There was the studying text on screen. Only a low percentage of students agreed that their group found it easy to make group decisions together, this aspect of collaborative group work forms the basis of another ongoing eSTE4M project.
96	7	Feb-15	15G-VN-EEES-02	Victoria Nicholas	Gathering student perception about online/distance practical science at level 2	Online/onscreen STEM practice	Online, practical science, student perception, level 2	\$382, SXP288, SXHL288	EEES	Nicholas Braithwaite (Deanery), Mark Hirst (LHCS), Ulrich Kolb (SPS), Marcus Brodeur (Deanery), Dave Edwards and Sarah Chyriwsky (ALs)	Gathering student perception about online/distance practical science of level 1	Jul-15	Project completed	Due Feb-22	
97	8	Oct-15	16A-AN-SPS-01	Andrew Norton	Assessment analytics of student engagement with, and performance on, S217 online quizzes	Innovative assessment	Assessment, analytics, student engagement, online quizzes, TMAs	S217	SPS	Alan Cayless (AL)		Jan-16	Project completed	Aug-16	As a result of these investigations, some adjustments to the placement of the quizzes in the Study Calendar and to the structure of the self-reflection questions in each TMA have been made for the next module presentation.
98	10	Dec-16	17E-AOADLAB- WELSKMIEI-01	Ale Okada, Ann De Liddo and Andrea Berardi	a VISION - Visual Interfaces for Systematising and Interpreting Online Notes	Online/onscreen STEM practice	Lightmap, Onscreen Annotation, Digital reading, Paperless learning, Higher Education	7891	WELS, KMI & E&I	Michelle Bachler, Anna Karine Rocha, Alexandre Costa (KWI), Luzianna Rosa and Simone Bechler (LDS)		May-17	Project completed	Feb-21	This exploratory study has provided important insights for further investigations about student experience, teaching including supervision of PhD students interested in annotation and mapping. The impact of this project outside the OU was through LiteMap commainly of detail aluers, which has increased significantly with examples provided by the COLEARN Community. Previous studies show that mapping supports forum discussions, writing and teamwork (Datadi et al. 2014). However, there is not enough research on annotation and how it can improve both mapping and interpretation of online content. * Ischnological improvement of LiteMap, * Showcase of examples of annotations and maps applied in various contexts, * New approaches for online learning through annotations and mapping including hint-icons
99	10	Dec-16	17E-SPCH-MS- 01	Sue Pawley and Chris Hughes	Supporter MST224 students with bridging material during their transition from level one, mathematics	Supporting students	Bridging interventions, revise and refresh, transition, retention, tutor support forums, level 1, level 2	MST124, MST224	M&S	Tim Lowe and Robert Hasson (M&S), Anne Rhodes, Linda Brown, Paul Twine (ALs)	Powley - Explaining the extent of maths anxiety within the STEM faculty at the Open University Hughes - Evaluating the accessibility of an alternative format of module materiols in Maths & Stats Hughes Joint PL - Usage of Early Alerts Indicators on two level 1 modules Hughes Joint PL - Welsh-medium tuition in Level 1 Mathematics Hughes Joint PL - Sonification of depictions of numerical data Hughes Joint PL - Sonification partial pilot on M140	May-17	Project completed	Nov-18	The meties and refresh for MST224 site has now been augmented to cover revision for students preparing to study MST125. Essential mathematics 2 and M248: Analysing data. We are currently liaising with two teams within the School of Mathematics and Statistics who are creating further R&R sites, one for level 3 mathematics and statistics modules, and another for MST210. Mathematical methods, models and modelling and M208: Pure mathematics, which will both be launched in 2019. Along with revise and refresh for MST24, this suite of resources will then cover the majority of the modules for the mathematics and statistics undergraduate qualifications as well as modules taught as part of degrees within other schools such as engineering and science. The team are in the early stages of discussions for disseminating the information to the Sigma (mathematics support centre) Network steering group who are interested in our distance learning support techniques to further
100	1 AL	Feb-19	19F-CP-CC-01	Cathryn People:	s Personalised Student Support. Plans: Examining the Effectiveness of Support. Recommendations made by Students	Supporting students	Accessibility of support, personalised support, student diries, instant chat, online learning community, synchronous support, asynchronous support	TM354	C&C		Support for Students. Teaching for Tutors. An Investigation into the Encouragement of Lower-performing Students to Engage with their Module, their Peers, and their Tutor	Jun-19	Project completed	Jan-21	It was found during this study that the students who engage more regularly and routinely with increased levels of support are the naturally stronger and more competent students. The students who may benefit the most from one support and from a support learning environment were found to not engage. Overall engagement with the support on offer during the programme was therefore on a lesser scale than anticipated. However, it is significant to note that retention on the module during the academic year when the programme was unning was significantly improved in comparison to the previous academic year. This finding is an interesting one, given who and how many students engaged. The finding may provide evidence that not all students wish to be part of a learning community, but that the fact of knowing that the support is available is enough to encourage students to continue with their study in a way which is satisfying to them.
101	2 AL	Mar-20	20G-CP-CC-02	Cathryn People:	Support for Students. Teaching for Tutors. An Investigation Into Ideas on Encouraging Students to Engage	Supporting students	One-on-one support, lower performing students, peer support, widening access, pre-module student characteristics		C&C	Richard Foley (AL) and Leonor Barroca (C&C)	Personalised Student Support Plans: Examining the Effectiveness of Support Recommendations made by Students	Aug-20	Project completed	Due Jan-22	
102	1	Feb-11	11F-PP-CC-01	Paul Piwek	Argumentation Education (ArguEd)	Innovative assessment	Assessment, argument, mapping, analysis, iCMA, OpenMark	TU100	C&C	John Woodthorpe (C&C), Crispin Boyd (STEM Deanery), Phil Butcher and Callum Lester (LDS)	Joint PL - Student co-design of confidence-building formative assessment for Level I Computing & IT students	Jun-11	Project completed	Mar-14	A novel type of ICMA question was implemented (using OpenMark) and deployed in TUID0 (~2000 students per presentation) and is still in use. As a result of the analysis of student mistakes in the TMA question on argument mapping, material for a tutorial session was developed for the TUID0 day school. This is in use by tutors at the day school.
103	14	Jan-19	19F-PPSS-CC-01	Paul Piwek and Simon Savage	Student co-design of confidence-building formative assessment for Level 1 Computing & IT students	Innovative assessment	Formative and summative assessment, quizzes, student engagement, student reflection, co- design, participatory design	TM112	C&C		Piwek - Argumentation Education (ArguEd)	Jun-19	Project completed	Jan-22	

104	15	Jul-19	19J-APCB-MS-01	Andrew Potter and Colin Blundell	Blended tutorials in. Mathematics: simultaneous. E2E and online learning events	Technologies for STEM learning	Blended tuition, online synchronous conferencing, remote access, mathematics learning, face- to-face tuition, online tuition, Adobe Connect, handwriting on screens, use of tablets for learning, technological innovation	M337	M&S		Patter joint PL - Developing students and turos perceptions of good mathematical communication on level one service mathematics module MU123: an investigation Patter joint PL - Nasciate Lecturer Reflections on Student Perceptions of Usefulness of Level 1 Service Mathematics Poster joint PL - Welsh-medium tution in Level 1 Mathematics Blundel - Investigation into running course specific taster tutorials within privaso for non-OU students	Oct-19	Project completed	Sep-21 - with T(for review	
105	14	Jan-19	19E-APGG-MS- 01	Andrew Potter and Gerry Golding	Associate Lecturer Reflections on Student Perceptions of Usefulness of Level 1 Service Mathematics	 Supporting students 	Service mathematics, service teaching, usefulness, student perceptions, student attitudes, threshold concepts, discourse	MU123, MST124, MST125, M140	M&S		Patter and Galang jant PLs - Developing students and tutors perceptions of good mathematical communication on level one service mathematics module MUI23: an investigation Potter joint PL - Blended tutoriols in Mathematics: simultaneous F2F and and intel learning events Patter joint PL - Welsh-medium tutiton in Level 1 Mathematics	May-19	Project completed	Due Mar-22	
106	12	Jan-18	18F-NPSCECRJ- LHCS-01	Nicholas Power, Simon Collinson, Eleanor Crabb and Rob Janes	Online remote experiments in chemistry - analysis of delivery, assessment, tracking and student perception	Online/onscreen STEM practice	Online, remote access experiements, real science, student engagement, performance, perception, laboratory	S215, S315	LHCS		Crabb joint PL - Developing responsive approaches to enhance personalized learning in selected LHCS modules Cabb joint PL - Impoving success and satisfaction of credit transfer students entering L3 modules in Science Crabb - Online Summer Schools	Jun-18	Project completed	Due Mar-22	
											Janes joint PL - Utilising the Teaching Tricky Topic process to Identify and Address Student Misunderstandings across Three OU Modules				
											Janes joint PL - Using technology-enabled learning networks to drive module improvements in STEM				
											Collinson joint PI - Can a new OU Study App enhance the learning experience of students on \$350, an online only module?				
107	12	Jan-18	18H-RQ-EI-01	Rongshan Qin	Visual Interactive Learning of Engineering Concepts	Technologies for STEM learning	Visual interactive learning software, proof of concept study, interactive toolkit	T176, T276, T357	E&I	Richard Moat (E&I) and Salih Güngör (E&I)		Aug-18	Project completed	Aug-21	The computing community in UK and the world has produced visit around of code package and data to simulation engineering problem for research programs. Many code gockages are free to use for academic proprioses. The publication of the raw data for sharing and further implementation becomes an increasing requirement by many journals. Those resources could be used in teaching to assist engineering students to achieve better understanding of the engineering problems, aware of novel solutions and get insight to the fundamental mechanisms. The sprint of the method is to have an interactive interfaced parameters in a virtual three-dimensional environment. This helps student to summarize and then build up a relationship between parameters in a virtual three-dimensional environment. This helps student to summarize and then build up a relationship between parameters in a virtual three-dimensional environment. This helps student to period of this scholarship project.
108	8	Oct-15	16A-LR-CC-01	Lucia Rapanotti	Measuring qualification	Employability	Employability, research		C&C	Jon G. Hall, Steven		Jan-16	Project	May-17	Overall, we think that the combination of techniques we have developed and applied to identify, extract and analyse data for this
					effects of a new pedagogy which embeds learning and assessment activities within each student's rich professional context of practice		skills, professional context of practice, post graduate, assessment			Self, Mark Slaymaker (C&C) and David King (AL)			completed		project can be seen as contributing to an overall evaluation framework, which could be used not just for this project, but in general for studies of a similar nature. That sails the framework still needs adjusting and evaluating, so that further work is required. In particular, this research will benefit from a follow-up project. The project has already triggered interventions within the modules under study in order to improve retention. Outcomes are being monitored on ongoing prsentations. The project was able to surface and share good practice, which has already led to adaptations of some of the teaching and assessment within the modules.
109	14	Jan-19	19C-CRAMG-EI- 01	Clare Reger and Anne-Marie Gallen	Evaluating the level 1 engineering tutors resource	Academic professional development	Evaluation, shared resources, associate lecturers, tuition	T192, T193, T194, T198, T176	E&I	Cheng Lee (AL) and John Bromley (AL)	Reger and Gollen - Factors influencing female participation in Physical Science Postgraduate Research Programmes Gallen joint PL - Perceptions, Expectations and Experience of Graup Tuthor: towards Sander Understanding amongst stakeholders (part II: the student perspective)	Mar-19	Project completed	Oct-19	The project aimed to evaluate the existing resource site in terms of its usefulness, availability and accessibility for ALs. The anticipated impacts were the potential improvement of the current iste and the development of a new site for Level 2 Engineering modules, which were to be informed by AL Redback. In addition, it was hoped that if the findings suggested that the current arrangement has been useful for ALs, it would be possible to share the outputs to inform the development of a resource site for other departments or schools. In order to achieve this, it was hoped that a template could be developed to support the use of this approach elsewhere.
											Gallen joint PL - Perceptions, Expectations and Experience of Group Tuition: towards a shared understanding amongst stakeholders				For ALs, the intended impacts of the project were to be improved peer learning and sharing of resources whilst for students, it was hoped the impacts will be a greater consistency of AL support across modules and between presentations.
											Gallen joint PL - Investigating students perception of some of the key learning activities in T272				Outcomes from the project were to be shared across the tutor forums of each of the modules participating, and across level 2 engineering modules and within the School of Engineering and Innovation; they could also be extended across STEM as well. Finally, it has been agreed that a SIARE First (Fidsy session, led by the ALs working on the project, might also be offered in March 2020 and a poster presentation submitted for eSTEM 2020.
															To date, the level 2 engineering site has only been shared with the 1722 nutors, for use during their 20180 prosentation. The next stage is to hold a hard launch for the till across the during models including 1721 in November 2019 and 1726 in forbarry 2020. The findings summarised in this report will also be shared with the tutors who were sent the survey initially. However, based on the outcomes above the team are seriously considering whether the site could be re-housed on a VLE site that better meets its needs.
110	5	Sep-13	13L-MR-EI-01	Martin Reynolds	Enhancing Systems Thinking in Practice at the Workplace	1 Employability	Employability, systems thinking, post graduate, work-based learning, communities of practice		E&I	Ray Ison, Christine Blackmore (E&I), Rupesh Shah and Elaine Wedlock (AL)	Framing Professional Competencies for Systems Thinking in Practice Joint PI - Changing the way the game is played: transforming postgraduate curriculum praxis and workplace capabilities	Dec-13	Project completed	Aug-16	The findings of this research will inform the future development of the STIP programme. One significant measure of success in the process of undertaking the research is the unique opportunity to engage with meaningful conversation around pedagogic development at postgraduate level amongst three sets of stakeholdens: • STIP students outside of their OU module environment • STIPs - Jennior STIP – with their beefit of in work post-study experience • STIPsr – employers Each set of respondents demonstrated a keenness to continue with the conversation around clear mutually beneficial initiatives.

111	10	Dec-16	17C-MR-EI-02	Martin Reynolds	Framing Professional	Employability	Employability, systems	E&I	Jitse van Ameijde	Enhancing Systems Thinking in Practice at the Workplace	Mar-17	Project	Jun-18	As with the first phase of the eSTEeM project 'Enhancing systems thinking in practice at the workplace', the findings of this research
					Constencies for Systems. Thinking in Practice		thinking, work-based learning, communities of practice		(LDS), Rupesh Shał (AL)	Joint PI - Changing the way the game is played: transforming postgraduate curriculum praxis and workplace capabilities		completed		will inform the future development of the STP programme, particularly as it unfolds during the approved refersh of the two core modules for 2020. A continued measure of success in understaing the inquiry is the apportunity to engage with meaningful conversation around pedgagoic development at postgraduate level and the wider role of higher education in society amongst four sets of stakeholders: • STIP educators within and beyond The Open University • STIP alumni with their benefit of in-work post-study experience • STIP englectars within and period the open university • STIP alumni with their benefit of in-work post-study experience • STIP englectars of the study experience • STIP englectars developed and the study experience • STIP englectar advice study experiments and englectar for managing a system to support systems thinking in professional procession and the study experiments and the study experiment of a postgraduate (Level 7) Systems Thinking fractitioner Apprentices hip scheme being developed and led by Ray tion and the ASTIP team at Ou in collaboration with a consortium of employers from different sectors, with financial and human resource support scuered from The Open University. The employer-led consortium will be responsible for setting up Sandards for the proposed 'traitblazer' Systems Thinking Fractitioner apprenticeship.
112	12	Jan-18	18E-MRRI-EI-01	Martin Reynolds	Changing the way the game is	Employability	Employability, systems	TU811, TU812 E&I	Rupesh Shah (E&I)	Reynolds - Enhancing Systems Thinking in Practice at the Workplace	May-18	Project	Due Jan-22	
				and Ray Ison	played: transforming postgraduate curriculum praxis		thinking, postgraduate, competencies, learning		Jitse van Ameijde (LDS), Helen	Reynolds - Framing Professional Competencies for Systems Thinking		completed		
					and workplace capabilities		outcomes, apprenticeship		Wilding and Mike Walker (ALs)	in Practice				
113	6	Jun-14	14L-LR-EI-01	Linda Robson	A quantitative and qualitative	Supporting students	Email communications,	S142, SDK125, E&I	Linda Robson,	Assessment banking – useful break or deferred withdrawal? An	Dec-14	Project	Dec-15	The participants in this study told us that students prefer to receive the majority of
					communications sent to		student experience, rever 1	0110	(LHCS), Nigel	assessment banked		completed		personalisation in the messages we send, they are happy to filter the messages themselves and
					MST and science modules				Gibson, Christine Harris and Carole					select which are relevant. Students in all three of our sample groups underestimated the number of email communications
									Arnold (ALs)					they receive from the university, despite the majority of them checking spam filters giving a high level of confidence that messages are being received. Many students reported that they filter the messages themselves, which may
														account for the perception of receiving fewer messages. Despite the lack of awareness of the volume of messages being recieved students are banny.
														with both the mode and number of communications.
														between students and the main hub of the university.
														assist students in filtering and searching for particular messages or information.
														The scope of this study was focused on investigating student feelings regarding the volume of messages they receive. Analysis of the data has highlighted that there is significant variation in
														the number of messages being sent to students studying the same module. Further work needs to be carried out to investigate why there is such variation.
														Recommendation 3: Further work should be carried out to investigate the variation in number of communications sent to students studying a single module.
														Although participants were asked if there was any information missing from the communications they had received, this study did not carry out any evaluation on the effectiveness of messages
														sent. Recommendation 4: Further work to be carried out to evaluate the effectiveness of our email
114	11	hul 17	171 KR MC 01	Katrina Ragorr	Active learning in synchronour	Supporting students	Active loaming	MCT224 MC227 MR.C	Claudi Thomas and		Son 17	Project	lul 10	communications.
114	**	301-17	173-66-103-01	Katime Rogers	online tuition: increasing	Supporting students	synchronous, online, tuition,	M373, MT365	Hilary Holmes		Sep-17	completed	Jui-19	useful and enjoyable. Some differences were apparent between the different types of activity, with chat-box activities being less
					student interaction		engagement, tutor,		(1485)					ravoured. Lack of time and confidence were given as the main reasons for not participating, and perceived benefits of engaging included the ability to attempt similar questions and benchmarking against other students.
							perceptions							We also found that technological problems remain significant, and that the demands on tutors are high. Further AL staff development is necessary to encourage more wide-spread use of these tools for active learning in online tutorials in Adobe Connect; our results
												1		provide mouvation and practical tips.
														The results have informed ALSD (see deliverables), and will continue to do so through the M&S ALSD group. The aim is to increase active learning in online tutorials, and to add to the current research literature on active learning in synchronous online tuition, thereby
														reaching students both within and joutside the OU.
115	3	Oct-11	12B-ER-EEES-01	Emma Rothero	Flight of the Fritillary	STEM engagement	Engagement, schools, citizen science, Floodplain	S396 EEES	David Gowing, Mike Dodd, Mandv	Flight of the Fritillary phase 2	Feb-12	Project completed	Feb-14	Our project was mainly focussed on volunteer engagement and learning. Our feedback questionaires and volunteer attendance suggests we have successfully engaged
							Meadows Partnership, volunteers, public, data		Dyson and Irina Tatarenko (EEES)	Floodplain Meadows Partnership Ambassadors				volunteers, encouraging them to return to surveys and to attend workshops. Our data is used in S396 to allow students to develop analytical skills of exploring data and
							collection					1		using correlation to develop hypotheses.
L							-							formed part of an impact statement that was used as an example for others to follow.
116	6	Jun-14	15A-ER-EEES-02	Emma Rothero	Flight of the Fritillary phase 2	STEM engagement	Engagement, schools, citizen science, Floodplain	EEES	David Gowing, Mike Dodd, Mandy	Flight of the Fritillary	Jan-15	Project completed	Jun-18	Over six years the project increased the numbers of volunteers more than three-fold through wide advertising. Annual workshops were run to enable volunteers to engage in the findings and the research process. Volunteer attendance at counts and workshops was
							Meadows Partnership, volunteers, public, data		Dyson and Irina Tatarenko (EEES)	Floodplain Meadows Partnership Ambassadors				maintained and volunteer engagement assessed through questionnaires and interviews. Evidence arising from the project has led to new ecological information about a rare plant found on internationally important sites for nature conservation and more in-deoth
							collection					1		volunteer research is showing a link between the snake's-head fritillary and bumblebees.
												1		Data collected by the project are used in 3 Open University undergraduate courses (\$206, \$396 and \$397) and the project has maintained a wide external profile engaging with many organisations outside the University and with clots on Course dill.
												1		Farming Today and BBC Wiltshire.
														This project will be listed in the REF21 submission as part of an Impact Case Study around engaging the wider public in research.
1					1	1	1		1			1		

117	9	May-1	6 16J-HR-MS-01	Hayley Ryder	Use of STACK to generate formative assessment for level 3 Pure mathematics	Innovative assessment	STACK, computer aided assessment, formative assessment, examination preparation, revision, past papers, self-efficacy	M303	M&S	Joe Kyle (AL)	Jaint PL - Use of OULIve recordings of 'Ive mathematics' and discussion forms on a level 3 Pure mathematics module in order to enable students to move to a growth mindset in maths and to add a social dimension to learning mathematics Joint PL - Does the provision of an 'own working space' for tutors enhance the learning experience for students Joint PL - Evaluating the increase in student wellbeing brought about by informal online sessions and computer generated worked examples on a level 3 pure maths module	Oct-16	Project completed	Nov-19	The above findings suggest that students may be more likely to engage with formative assessment in the form of online practice questions if they believe them to be directly relevant to the exam. Encouraging engagement is timportant hecause the results suggest that active engagement with online practice questions may help performance at pure mathematics at Level 3, especially for students with grade 2 or 3 passes in relevant modules at Level 2. Students can feel more confident if given plenty of opportunity to self-test on resources specifically designed to minic examination. These results will be disseminated and will inform the development of other similar quizzes. In addition similar techniques could possibly be used to create TMAs, individualised TMAs or TMA-like questions.
118	10	Dec-1	5 17ESSMS-CC-0	1 Steven Self and Mark Slaymake	Refining a framework for r measuring qualification effects	Employability	Employability, post- graduate, students' professional context, research skills, pedagogica approach, framework, computing qualification	1	C&C	Jon Hall and Lucia Rapanotti (C&C)		May-17	Project completed	Due Jul-22	
119	12	Jan-18	18E-BSRH- LHCSLDS-01	Bryan Singer and Rafa Hidalgo	Improving student engagement during online-only courses through the use of interactive guestion-embedded videos	Online/onscreen	Education, online, educational videos, interactive learning, distance learning, embedded questions, interactive video	SDK100	LHCS & LDS	Carol Midgley (LHCS) and Vikki Haley-Mirnar (LHCS)	Singer - Teaching psychological concepts through Virtual Reality (VR) Hidalga jaint PL - Investigating students perception of some of the key learning activities in T272	May-18	Project completed	Feb-21	This research has highlighted that video, with the implementation of formative and summative questions, can successfully provide students with their preferred form of instructional media, which is also engaging and effective at promoting efficient distance learning.
120	17	Jul-20	20L-CSCW-MS 01	Cathy Smith an Charlotte Webb	Effective support for reflective writing: learning from improvers	Equality, diversity and inclusion - APP	Participation, Reflective writing, Student voice, Mathematics education, assessment	ME321, ME322, ME620, ME625, ME626, ME627	M&S			Dec-20	Project completed	Due Jan-22	
121	1	Feb-11	11D-JS-FASS-0	Joe Smith	Creative Climate Learning: common resources on environmental change	Technologies for STEM learning	Online content, environmental communications, digital scholarship, OERs, OpenLearn		FASS	Christine Pearson (E&I), Susan Fawssett (AL)		Apr-11	Project completed	Jun-12	Data collected by the project are used in 3 Open University undergraduate courses (\$206, \$396 and \$397) and the project has maintained a wide external profile, engaging with many organisations outside the University and with slots on Countryfile, BBC Farming Today and BBC Wiltshire.
122	1	Feb-1:	11D-PT-LHCS-0	1 Peter Taylor	The use of peer assessment/review in distance teaching via the Moodle VLE	Innovative assessment	Peer assessment, review, Moodle, VLE, self- assessment, student experience	5104, ED209, T320, A850, T330, S366, TU100, T320, Y181	LHCS	Antonio Martins- Mourao (LHCS), Janet Dyke, Manish Malik, Frances Chetwynd, Helen Jefferis, Christme Gardner, Sue Nieland, Chris Middup, Krushil Watene, Richard Pederick, Charlotte Schulze, Bettie Matheson (ALs)		Apr-11	Project completed	Sep-14	SB15 is using peer assessment in 2014. SX*390 has expressed an interest in using it to develop the students abstracts. It is being used in a number of modules in Social Sciences. The University agreed a number of principles for assessment of which number 6 is "Students should be given opportunities to engage in and develop thris sills in peer eview and self-assessment." As well as persuading LTI to release the workshop tool to all modules I have subsequently worked with LTI in developing a guide on workshop for Module teams to use.
123	6	Jun-14	14J-ET-CC-01	Elaine Thomas	Using OpenStudio in STEM.	Technologies for STEM learning	Openstudio, audion visual resources, student interactions, artefacts, creative practices, community of practice		C&C	Leonor Barroca, Helen Donelan, Karen Kear and Jon Rosewell	hybrid/Digital Networked Learning scruffy mongrel or sleek new breed? Proctices and implications of blending physical and digital resources for learning in HE	Oct-14	Project completed	Dec-18	The design of activities involving OpenStudio should also take account of the following recommendations: • Students should be provided with guidance on giving feedback to their peers and, importantly how to evaluate the feedback they receive from their peers. • Students need time to develop the confidence and the skills to offer more 'in-depth' feedback to their peers. Confidence increases with the student's experience of study. • Time management alitis are particularly important for students anying out activities in OpenStudio where students are dependent on each other for the elaback, so they need advice on these skills. • When peer face, alities the offerent students carry open face students are dependent on send to the for for the elaback and the students are students are compared to the students are taken to the student's should take account of fool's sequencial learning cycle so that students have an opportunity to review their statistic in the light of their reflection on the freedback they have necloud. Finally OpenStudio offers a means of collecting and orung digital articles for the duration of a module so another. This might be something to consider for further development of OpenStudio from one module to another.
124	4	Oct-12	E 10.4F5WSD- CCEEES-01	Elaine Thomas, Steve Walker and Sarah Davies	hybrid/Digital Researched Learning stuffy mongenion (see in we work of Partices, and implications of Velending, hybridia and official resources, for learning in HE	Technologies for STEM learning	Digital resources, networked resources, networked learning, hybrid digital material, PIRATE, SenceBoard		C&C & FEES	Steve Walker (C&C) and Sarah Davies (EEES)	Thomas joint PL - Using OpenStudio in STEM learning Walker - Infinite Bandwidth Zera Latency - I82L2 Walker Joint PL - Piloting OU Analyse and the Student Probabilities Model on L3 STEM Modules Davies joint PL - Geospatial technologies in distance learning and teaching in Science Davies joint PL - Disseminating inclusive field teaching - sharing resources and practices across disciplines and institutions Davies - Place-making and student identity in fieldwork learning Davies - Embedding research into teaching: practices, motivations Davies - Embedding research into teaching: practices, motivations Davies - Interstigating Barriers and Inclusive Messaging around Fieldwork Learning in the Earth, Environmental and Ecological Sciences	Dec-12	Project completed	Nov-15	This project will be listed in the REF21 submission as part of an impact Case Study around engaging the wider public in research.

125	9	May-16	16J-ETSKMHJ-CC 01	Elaine Thomas, Soraya Kouadri Mostéfaoui and Helen Jefferis	Visualising the code: are students engaging with programming at level 12	Technologies for STEM learning	Programming teaching, visual programming, computer science education, student engagement	TU100	C&C		Thomas joint PL - Hybrid/Digital Networked Learning scruffy mangrel or sleek new breed? Thomas - Using OpenStudio in STEM learning Kauadri Mostéfaoul - Assessing 'alternative media' elements: is there a generic model'. Kauadri Mostéfaoul joint PL - Supporting Degree Apprenticeship students: Tutors' and Students' perspectives. Kauadri Mostéfaoul joint PL - Are You Ready for Your Studies - Are we Assessing Students Readines? An evaluation of the usefuness of the Level 2 ARFY quizzes	Oct-15	Project completed	Jul-19	The project began its work when the design of the new Level 1 Computing and IT curriculum had already been decided and production was underway. However, the main impact of this project is to establish that the School of Computing and Communications decisions the design and development of the new Level 1 curriculum were well-Founded. The project has confirmed that our impressions of the variation in students' responses to the teaching of programming in 17U.00 My digital life were correct. Therefore, the project will provide a reference point for future studies on the teaching of programming in 21U.00 My digital life were correct. Therefore, the project will work of project within the University, we were able to present our work at an international conference in Zagreb and so promote the School's approach to the teaching of programming to an international audience.
											Kouadh Mostéfaoui Joint PL: Using Bitesize Videos to Enhance Students' Experiences in a Level 2 Programming Module Kouadh Joint PL - Modern Container-based Learning Interface and Delivery Infrastructure (MCLID) Kouadh Mostéfaoui Joint PL - Analysis of COVID-19's impact on BAME students' attainment (A case study of Level 1 C&C Open University montules)				
126	10	Dec-16	17F-LTNM-LHCS 01	Linda Thomson and Nicola McIntyre	Online tutorial design: can we do better?	Supporting students	Online, synchronous tutorials, group tuition policy, flipped lectures, tuition strategies, attendance	SDK100, SD329	LHCS	Gerry Golding (M&S)	Thomson joint PL - The impact of live streaming module-wide events in student engagement and motivation	Jun-17	Project completed	Due Feb-22	
127	12	Jan-18	18E-LTMV-LHCS 01	- Linda Thomson and Maria Velasco	The impact of live streaming module-wide events in student engagement and motivation	Technologies for STEM learning	Online, tuition, interactive labcasts, science community building, student engagement	\$111	LHCS	Kate Bradshaw (STEM Deanery)	Thamson joint PL - Online tutorial design: can we do better?	May-18	Project completed	Due Mar-22	
128	16	Jan-20	20F-MT-EI-01	Maria Townsend	The value to students of drop- in tutorials to support assessment	Supporting students	Drop-in tutorials, online, student participation, assessment support	U116	E&I	Wendy Berndt and Emma Champion		Jun-20	Project completed	Due Feb-22	
129	7	Feb-15	15G-KVCH-MS- 01	Karen Vines and Chris Hughes	Sonification of depictions of numerical data	Equality, diversity and inclusion	inclusivity, visually impaired students, sonifications, numerical data,	MU123, MST124, M140, S104	M&S	Hilary Holmes (M&S), Vic Pearson, Laura Alexander (SPS), Claire Kotecki (LHCS), Chetz Colwell	Sonification partial pilot on M140 Hughes joint PL - Supporting MST224 students with bridging material during their transition from level one mathematics Hughes - Evaluating the accessibility of an alternative format of module materials in Maths & Stats	Jul-15	Project completed	Dec-16	The sim of this study was to see how effective sonflications can be as alternate accessible versions of picts and graphs in module materials. The results in this study show that the sonflications did enable most of the participants to get the gist of the pict; this was despite being initially unused to being presented with bolt and graphs in this format. Greater experience with sonflications should only increase participants' ability to interpret plots and graphs given in this format. Greater experience with sonflications should only the sonflications was only 6 seconds long. Although participants generally listened to sonflications must be one than once, using them did not add significantly to start any the pict or graphs quickly, each of the sonflications was only 6 seconds long. Although participants generally listened to sonflications more than once, using them did not add significantly to subpart to be an unreasonable ask. Based on this we feel that sonflications of plots and graphs should, where possible, be made available to students. Phase two of the project is piloting sonflication on MI40
130	10	Dec-16	17E-KVCH-MS- 02	Karen Vines and Chris Hughes	Sonification partial pilot on M140	Equality, diversity and inclusion	Accessibility, inclusion, visual impairment, disability, sonification, learning analytics	M140	M&S	Carol Calvert (M&S) and Chetz Colwell	Sonffication of depictions of numerical data	May-17	Project completed	Apr-18	We have concluded the following: 1. It is possible include audio graphs on modules website, even for modules where the material is not delivered via structured content. 2. Although only a minority of students appeared to get a benefit from the audio graphs, the instances in which it appeared to detract from the study of others were very rare. 3. Where audio graphs are to be use gludance about how to interpret them should be offered. In particular reassurance about what is and is not reasonable to pick up from them. 4. Some further technical development of the method by which the audio strates are anothered is desirable.
131	2 AL	Mar-20	20G-RW-CC-01	Richard Walker	Bennete subhten beloer s unoor en visualle image di subents: explorine good practice: Stage 2	Equality, diversity and inclusion	Accessibility, VL sighted helper, rends support, visual programming	TM111	C&C	Christine Gardner (C&C) and Sarah Mattingly (M&S)		Jul-20	Project completed - need to amend category on website	Dec-20	TM111-specific recommendations in conducting this action research the project team became aware of TM111-specific issues for VI students: • As mentioned previously one student requested a comprehensive list of the OLBuild code blocks, in textual form, which the sighted helper drev up. This may well be useful to VI students more widely. The project team will make a version of this available to all students via the module website. • Questions in TMA02, the programming part of the module assessment, typically have "statter projects", partially constructed OLBuild programs which students are asked to OLBuild programs which students are asked to OLBuild programs which students are asked to As various points the online module materials direct the students would benefit from textual descriptions of these cather projects. • At various points the online module materials direct the student to video resources but without providing a direct link. Although the videos are hosted on the module website VI students are likely to have takes and hosted on the module asbee will be module available to R5 helpens and VI students on future TM111 presentations. They will also be disseminated as appropriate across module teams and support staff involved in advising students with disabilities (precise details to be determined in consultation with advisory staff).
132	1	Feb-11	11D-SW-CC-01	Steve Walker	infinite Bandwidth <u>Zero</u> Latency – IBZL <u>2</u>	Technologies for STEM learning	Next generation networks, broadband, futurescaping, imagine/triple task		C&C	Simon Bell (E&I)	Jaint PL - Piloting OU Analyse and the Student Probabilities Model on 12 STEM Modules	Apr-11	Project completed	Feb-12	We have used the IBZL approach successfully to engage over 40 people from a range of backgrounds in generating 25 named output ideas. Comfortably over half of these participants have either been engaged in the second phase or indicated that they would like to be. Three consortia have been formed to take on specific ideas to their next stage of development. The outcomes of the work of these consortia will be reported later. One area for improvement in future IBZL workshop activities is the reporting and recording of the work of the working groups within the workshop format, to allow both for a clearer link to subsequent developments. That out support systematic evaluation. We have not attempted to define the kind of applications that can be developed. We are exploring whether the approach we have developed can be successfully used to address more specific NG problems (such as educational applications) as part of a significant extension of the IB2L approach in STEM.

133	14 Jan-:	9 19D-JW-LHCS 01	Janette Wallaco	 Evaluating student, perspectives of different types, of learning events, provided on. SDE228, a level 2 LHCS module 	Supporting students	SDK225, tutorials, interactive, enjoyment, engagement, informal, workshop	SDK228	LHCS	Isabella Henman (AL) and Claire Rostron (LHCS)	Assessing the effectiveness of the induction process for novice Associate Lectures in the School of UE health and Chemical Sciences in preparing them for the Associate Lecturer role Does attendance at unrecorded online module wide tutorials on a science module enhance student enjoyment, engagement and success? How might this impact tutition strategy for current and future LHCS modules? Ainth PI – Evaluating a new STEM AL induction programme Joint PI – Evaluating an ew STEM AL induction programme Joint PL – Impact of Introducing new practical and dataset project options to the science undergraduate capatone project module (\$390,	Apr-19	Project completed	Sep-21 - with TC for review	
134	12 Jan-	8 18E-JWHG-LF 01	CS- Janette Wallacc and Hannah Gauci	 Assessing the effectiveness of the induction process for roxice Associate Lectures: in the School of Ute Health and Chemical Sciences in preparing them for the Associate Lecturer role 	Academic professional development	Associate Lectures, Als, Induction, academic support, novice, working practice, practitioner, confidence	SK299	LHCS		Wellace - Does attendance at unrecorded online module wide tutorials on a science module enhance student enjoyment, engagement and success? How might this impact tuition strategy for current and Juture LHCS modules? Wellace Joint R - Impact of Introducing new practical and dataset project options to the science undergraduate capstone project module (3300) Gauci Joint PL - Summer Series of Journal Clubs: an opportunity to develop employability skills and a sense of community amongst students in ascure environments Evaluating a new STEM AL Induction programme Gauci Joint PL - Impact of Introducing new practical and dataset project options to the science undergraduate capstone project module (3300)	May-18	Project completed	Jul-21 - with TC for review	
135	10 Dec-	17E-AW-CC-0	Ann Walshe	Towards A Structured Process for Involving ALM In Module Tuittion Strategy Design and Review	Supporting students	Tuibion, Associate Lectures, module group utition strategy toolkit, module design, review		C&C	Simon Savage (C&C) and Sharon Dawes (AL)	Joint PL - Perceptions, Expectations and Experience of Group Tution: towards a shared understanding amongst stakeholders Joint PL - Investigating the perceived benefits to computing students of remote pair programming	May-17	Project completed	Jan-19	Although the internion of the review had been to collect feedback about the utilion strategy designs, much of the feedback was about how the strategy is that been inglemented and some feedback was about chare spacets of the AL nole. The resulting tranges to the tuition strategies varied from module to module. Not all charges were a result of the AL feedback. Module teams and staff turos continue to develop their own views in the light of experimence about how best to design tuition strategies. Some charges appear to have been influenced by what other module tams were doing. If under GTP we continue to review whole with every presentation. It is incommended that a review should be tatied on the module turtor forum, with ALs alerted by email. Then a synchronous IZ or online meeting should be held, followed up with further forum discussion. As expertise develops and evidence of effectiveness of decisions is collected, this should be disseminated across and beyond the targets develops and evidence of effectiveness of decisions is collected, this should be disseminated across and beyond the targets develop and evidence of effectiveness of decisions is collected, this should be disseminated across and beyond the targets develop and work within a community of shared portesional practice, to share expertise between themselves, to tail new ideas and to adapt to the needs of their students. It is the same that as releving the turbus strategy, staff thross and ALs should have the opponutive traiting is implemented. Turbon strategies should be teenfit of our substrate, staff the herefit of our substrate the turbus throes and the should have the opponutive traiting is implemented. Turbon strategies should be with the advects.
136	16 Jan-i	0 20D-GW-SPS-	01 Gemma Warriner	How successfully are students engaging with the Python component of SM123?	Supporting students	Python, engagement, physics, stage 1	SM123	SPS	Andy Diament (AL)		Apr-20	Project completed	Nov-21 - with MJ for review	
137	1 Feb-	1 11D-MW-CC-	11 Michel Wermelinger	iChart – Interactive Exploration of Data Charts	Technologies for STEM learning	Interactive, visualisation tool, data charts, iScatter, scatterplot, maps,		C&C	Paul Piwek (C&C)		Apr-11	Project completed	Jul-13	There will be follow-up actions in presenting the final version to the OpenScience Lab and module teams.
138 9	9 May	16 16J-PWJCKM EEESKMI-01	C- Phil Wheeler, Julia Cooke, Kadmiel Masey and Trevor Collins	Assessing The 'Open Field Lab': Evaluating Interactive k Fieldcasts for Enhancing Access to Fieldwork	Technologies for STEM learning	Fieldwork, remote access, increasing confidence, decision-making	\$206, SXF206	EEES & KMI	Julie Robson (EEES), Kate Bradshaw (STEM Deanery) and Sarah Davies (EEES)		Oct-16	Project completed	Dec-20	While the fundamental design of the fieldcasts hasn't changed, we have continuously incorporated small changes, in response to feedback and technological advancements, to increase understanding of the process of conducting field investigations and increase students' sense of belonging. A significant change was to incorporate the fieldcasts into one of the module assignments rather than it being an optional activity. Previously the Stadium Live widgets have been used to check student understanding; we used it to enable student-led learning.
139	13 Jul-1	3 18K-PW-CC-0	Patrick Wong	Understanding and mittability students difficulties in undertaking complex practical activities on their computers	Online/onscreen STEM practice	Practical activities, withualisation, student support	TM129, TM255, TM351, TM352	C&C	Helen Donelan (C&C) and Tony Hirst (C&C)		Nov-18	Project completed	Sep-20	The study informed the TM255 module team that the technical support forum were effective, tutorials and screencast videos given through the setup of the labe was used unal equivalent initialiation guide for Nex users was deviced. As a result, screencast videos and installation guide for Nex users have been produced and made available for the 201 presentation. Tutorials covering the practical activities are scheduled for each presentation. The finding of this study shows that a more convenient (installation free) virtual lab option is not necessarily the students' preference. Many students value the still and experience gained through the installation opportunity. This is in contrast of what our expectation was informal discustors among academics in the School of Computing and Communications implied that many academic expected students would prefer to do practical activities on a virtual lab. The study also finds that the RTSF survey is a valuable tool for obtaining students opinions timely. The School of computing and Communications are consistent in style and structure across all modules and want an alternative option as a backup.

140	11	Jul-17	17E-CWSW-	Carlton Wood	Piloting OU Analyse and the Sup	pporting students	OU Analyse, retention,		EEES & C&C	Maria Kantirou	Walker - Infinite Bandwidth Zero Latency – IBZL2	May-17	Project	Aug-19	Recommendations:
			EEESCC-01	and Steve	Student Probabilities Model on		progression, analytics, early			(STEM Deanery),			completed	-	 Learning analytics should be considered as one option in a range of retention strategies.
				Walker	12 STEM Modules		alert indicators, predicitve			Tom Olney (STEM	Walker joint PL - Piloting OU Analyse and the Student Probabilities				Learning analytics should be considered as one way to initiate conversations between
							data			Deanery),	Model on 12 STEM Modules				tutors, students and module teams about students at risk.
										Anactoria Clarke					The timing and content of training provided to tutors and module teams needs to be
										(WELS), Carol	Wood - Assessing and supporting student experience of synchronous				reviewed.
										Calvert (M&S) and	online tuition				The development of new learning analytics dashboards and the strategies and guidance that
										Moira Dunworth					goes with them, should be developed through consultation with tutors and owned by
										(AL)					module teams.
															For first presentation modules, module teams should make only TMA submission scores and
															VLE engagement data available to tutors before introducing OUA PLA on second
															presentations onwards if required.
															Further research into uses for the OUA PLA should be undertaken, particularly in the field
															of producing static learning design visualisations.
141	5	Sep-13	13L-JW-CC-01	John	An investigation into the use Sup	pporting students	Neural networks, predictive	TU100	C&C	Chris Dobbyn,	Joint PL - How students' use of language relates to learning,	Dec-13	Project	Mar-16	Interest in this project from within the STEM Faculty and elsewhere in the University has
				Woodthorpe	of Artificial Neural Networks to		modelling, OU Analyse,			Frances Chetwynd	retention, and performance in assessment on TU100: Implications for		completed		been driven by the potential improvements in student retention and completion. That
					predict student failure, and the		tutor contact, retention,			(C&C) and Helen	learning design, assessment strategy, and tuition practices in the				interest has been split between the neural network aspect and the role of the tutor contact
					efficacy of sustainable_		progression			Jefferis (AL)	MCT faculty				part of the project. Coming at a time of increased emphasis on retention and on the use of
					additional support for those										data analytics to improve and personalise our support for students, the project has been
					students										very timely. Indeed it anticipated much of the current interest and has been a pathfinder for
															aspects of improving retention and support. Now the project has finished, the work has
															been taken up by the STEM Faculty, who are funding its continuation on the remaining
															presentations of TU100. This support includes determining the feasibility of training others
															to use the neural networks on TU100 and on other modules.
142	5	Sep-13	13L-JWJD-	John North Land	How students' use of language Inni	novative	Language, learning,	10100	C&C & WELS	Nel Boswood,	Wooathorpe - An investigation into the use of Artificial Neural	Dec-13	Project	May-16	improvement in retention (in as far as the impact of changes implemented can be traced amidst multiple variables affecting student
			CCWELS-01	Woodunorpe and	relates to learning, retention, ass	sessment	telention, assessment,			Caroline Contri,	Networks to predict student jundre, and the ejjicacy of sustainable		completed		and utor performance)
				Jim Dononue	and performance in		analysis			Qidii Kdii, Sdidii Mukhorioo (WELS)	adantional support for those stadents.				Protessional development for the 4-b WCT ACS involved, and for the WCT and language central academics.
					assessment on rotoo:		analysis			Wuknerjee (WELS)	<i>x</i>				bevelopment of reperiores of practice and a repository of products which will underpin withis retention and assessment strategies
					design assessment strategy					Mandy Honoyman					
					design, assessment strategy,					Chand Material					
					ACT faculty					Hootbor Morris					
					incl lacuity					(ALc)					
										(ALS)					
										lim Donohue joint					
										PL until 31 Jul 15					
										12 0101 51 501 15					
		1			1			1	1	1				1	
143	1 AL	Feb-19	19F-AY-EI-01	Alan Yate	Do OU students understand Sup	pporting students	Learning outcomes,	T176, T192,	E&I	Steve Dutch (AL)		Jun-19	Project	Jan-22 - with TC	
		1			the Learning Outcomes on		academic literacy, student	T193, T194	1	1			completed	for review	
		1			courses in general and in		journeys, TMA	1	1	1				1	
		1			T176, T192, T193, T194 in			1	1	1				1	
1		1	1	1	particular?		1	1	1	1	1	1	1	1	