Appendix 1: The MOOC corpus information

MOOC corpora source (sum word count = **11,259,772**) (5 main fields) (30 + 30 + 24 + 20 + 20 = **124** courses) MOOC course category: https://www.mooc-list.com/initiatives-and-categories
https://www.onlinecoursereport.com/the-50-most-popular-moocs-of-all-time/

1. Art and humanities: (total word count = 2,115,241) (5 subcategories x 6 = 30 courses)

	Art and humanities							
subcategory	course name	instructor name	platform	link	word			
					count			
language &	1.Greek and Roman	Peter Struck (M)	Courser,	belong to philosophy filed under Arts and	164,031			
literature	mythology	University of	1male,	Humanities on Coursera				
		Pennsylvania	native	https://www.coursera.org/learn/mythology				
	2. Miracles of Human	Marc van Oostendorp	coursera	6 weeks	50,493			
	language: An Introduction	(M)		user rating 4.5				
	to Linguistics	Universiteit Leiden,		https://www.coursera.org/learn/human-language				
		Meertens instituut						
		(KNAW)						
	3.Exploring English	British Council	future	6 weeks	17,735			
			learn	https://www.futurelearn.com/courses/explore-engli				
				sh-language-culture/4/todo/3420				
	4. The Art of Poetry	Robert Pinsky(M), Duy	EdX	6 weeks,	26,410			
		Doan (M), Laura		review 4/5				
		Marris(F), Calvin Olsen		https://www.edx.org/course/art-poetry-bux-arpo22				
		(M), Tomas Unger (M),		<u>2x-0</u>				
		Sarah Handley(F),						
		Boston University						
	5. Electronic literature	Mark Sample (M),	EdX	6 weeks, 2-4 hours/week,	19,960			

		Kristen Eshleman (F),		review 4.5/5	
		Robert McSwain(M), Sara		https://www.edx.org/course/electronic-literature-d	
		Swanson(F)		avidsonx-d004x	
		Davidson University			
	6. Masterpieces of World	David Damrosch (M),	edX	12 weeks, 5-7 hours/week	134,148
	Literature	Martin Puchner (M)		review 4.5/5	
		Harvard University		https://www.edx.org/course/masterpieces-world-lit	
				erature-harvardx-hum12x-0	
history	1. Marriage and the	Jeanine Basinger(F)	coursera	5 weeks of study, 4-6 hours/week	42,180
	Movies: A History	Wesleyan University		https://www.coursera.org/course/marriageandmov	
				<u>ies</u>	
	2. The Ancient Greeks	Andrew Szegedy-Maszak	coursera	3-5 hours/week, 7 weeks	79,205
		(M),		average user rating 4.7	
		Wesleyan University		https://www.coursera.org/learn/ancient-greeks	
	3. The Book: The history of	Robert Darnton (M).	EdX	1 week, 1-2hours per week	14,244
	the Book in the 17th and	Harvard Univ.		user rating 4.5/5	
	18th century Europe	HarvardX's HUM.1.4x		https://www.edx.org/course/book-history-book-17t	
				h-18th-century-harvardx-hum1-4x	
	4. China (part 1): Political	Peter K. Bol(M)	EdX	6 weeks, 1.5-3.5 hours/week	69,617
	and Intellectual	William C. Kirby(M),		https://www.edx.org/course/china-part-1-political-i	
	Foundations: From the	HarvardX		ntellectual-harvardx-sw12-1-0	
	Sage Kings to Confucius				
	and the Legalists				
	5. The Modern World, Part	Phillip Zelikow(M)	coursera	2-4 hours/week, 7 weeks	405,375
	One: Global history from	University of Virginia		user rating 4.8	
	1760 to 1910			https://www.coursera.org/learn/modern-world	
	6. A Global History of	Mark Jarzombek (M)	edX	12 weeks, 6 hours/week	253,395
	World Architecture			review 4.5/5	

		MIT		https://www.edx.org/course/global-history-architec	
				ture-mitx-4-605x	
arts,	1. Early Renaissance	Francesco Paolo Fiore	coursera	10 weeks of study, 2-4 hours/week	23,504
architectur	Architecture in Italy: from	Sapienza University of		https://www.coursera.org/course/renaissancearchit	
e and	Alberti to Bramante	Rome		ect	
design	2. Roman Art and	David Soren	coursera	5 weeks	72,562
	Archaeology	University of Arizona		https://www.coursera.org/learn/roman-art-archaeo	
				logy	
	3. Future Cities	Gerhard Schmitt	EdX	10 weeks, 3 hours per week	17,887
		Dirk Hebel		https://www.edx.org/course/future-cities-ethx-fc-0	
		Reinhard König		<u>1x-2</u>	
		Bernhard Klein			
		Marcel Brülisauer			
		Estefania Tapias			
		Chen Zhong			
		ETH Zurich			
	4. Product Design: The	Annemiek van Boeijen	EdX	7 weeks, 6-8 hours/week	27,141
	Delft Design Approach	Jaap J.J. Daalhuizen		https://www.edx.org/course/product-design-delft-d	
		TU Defix		esign-approach-delftx-dda691x-0	
	5.History of Chinese	Wang Guixang, Lv Zhou,	EdX	16 weeks, 4 hours/week	171,551
	Architecture	Jia Jun, He Congrong, Liu		user rating 4.5	
		Chang		https://www.edx.org/course/history-chinese-archit	
		Tsinghua University		ecture-tsinghuax-80000901x	
	6. Evaluating Designs with	Mark. W. Newman (M)	edX	4 weeks, 3-4 hours/week	49,618
	Users	University of Michigan		https://www.edx.org/course/evaluating-designs-use	
				rs-michiganx-ux504x	
music, film	1. Introduction to Classical	Craig Wright (M)	coursera	9 weeks, 2-3 hours/week	168,949
& studio	Music	Yale University		average user rating 4.9	

				https://www.coursera.org/learn/introclassicalmusic	
	2. Scandinavian Film and	va Novrup Redvall	coursera	3-5 hours/week, 5 weeks	38,491
	Television	University of		https://www.coursera.org/learn/scandinavian-movi	
		Copenhagen		<u>es-tv</u>	
	3. Introduction to Music	George Russell Jr. (M)	EdX	6 weeks, 5 hours/week	19,738
	Theory	Berklee College of Music		review 4/5	
				https://www.edx.org/course/introduction-music-th	
				eory-berkleex-oharm100x-0	
	4. Introduction to Italian	Steve Swayne (M), Adam	EdX	6 weeks, 3-4 hours/week	
	Opera	Nemeroff M), Dan Maxell		review 4.5/5	
		Crosby (M), Pat Fisken		https://www.edx.org/course/introduction-italian-op	
		(F), Sawyer Broadley		era-dartmouthx-dart-mus-01x	
		(M), Memory Apata (F),			
		Dartmouth College			
	5. Religion and Hip Hop	Anthony Pinn, Bernard	EdX	6 weeks, 2-5 hours/week	66,495
	Culture	Freeman		user rating 4.5	
		University of Rice		https://www.edx.org/course/religion-hip-hop-cultu	
				re-ricex-reli157x	
	6. Songwriting: Writing	Pat Pattison (M)	Coursera	7 weeks, 3-6 hours/week	59,116
	the lyrics	Berklee College		user rating 4.9	
				https://www.coursera.org/learn/songwriting-lyrics	
philosophy	1. Introduction to	Dr. Dave Ward(M)	coursera	7 weeks,	53,460
	Philosophy	The University of		average user rating 4.5	
		Edinburgh		https://www.coursera.org/learn/philosophy	
	2. Ancient Philosophy:	Susan Sauvé Meyer	coursera	4 weeks, average user rating 4.7	32,078
	Plato & his Predecessors	University of		https://www.coursera.org/learn/plato	
		Pennsylvania			

	3. Philosophy: Minds and	Alex Byrne	EdX	12 weeks, 3-4 hours/week	118,843
	Machines	Damien Rochford		https://www.edx.org/course/philosophy-minds-mac	
		MITx		hines-mitx-24-09x	
	4. UQX: META 101x	Deborah Brown(F)	EdX	4 weeks, 1-4 hours/week	76,403
	Philosophy and Critical	Peter Ellerton(M)		user rating 4.5	
	Thinking	The University of		https://www.edx.org/course/philosophy-critical-thi	
		Queensland		nking-uqx-meta101x-0	
	5. Justice	HarvardX	EdX	2-4 hours/week, 12 weeks	81,178
				user rating 5	
				https://www.edx.org/course/justice-harvardx-er22-	
				<u>1x-0</u>	
	6. Human Rights Theory	Caroline Fleay (F)	edX	12 weeks, 8-10 hours/week	60,089
	and Philosophy	Curtin University		review 4.5/5	
				https://www.edx.org/course/human-rights-theory-	
				philosophy-curtinx-hrig1x	
sum					2,115,24
					1

2. social science: (total word count = 2,186,744) (5 subcategories x 6 = 30 courses)

	social science								
subcategory	course name	instructor name	platform	link	word				
					count				
sociology	1.Social psychology	Scott Plous	coursera	7 weeks of study, 4-8 hours/week	118,143				
		Wesleyan University		https://www.coursera.org/course/socialpsycholo					
				gy					
				https://class.coursera.org/socialpsychology-002/					
				lecture					

	2. Living with Dementia: Impact on Individuals, Caregivers, Communities and Societies 3. Introduction to	Nancy Hodgson(F), Laura N. Gitlin(F) Johns Hopkins University Dr. Joanna	coursera EdX	5 weeks of study, 3-5 hours/week user rating 4.6 https://www.coursera.org/course/dementiacare https://www.coursera.org/learn/dementia-care 6 weeks, 4-6 hours/week	60,494 21,154
	Sociology	Hadjicostandi UTPermianBasinX		user rating 4.5 https://www.edx.org/course/introduction-sociol ogy-utpermianbasinx-soci101x	
	4.Global Sociology	Smitha Radhakrishnan Wellesley College	EdX	4 weeks, 2-3 hours/week user rating 4.5 https://www.edx.org/course/global-sociology-we llesleyx-soc101x	61,528
	5. Classical Sociology Theory	Bart van Heerikuizen University of Amsterdam	coursera	20-25 hours, user rating 4.8 https://www.coursera.org/learn/classical-sociological-theory	47,145
	6. Global inequity	Smitha Radharishnan Wellesley College	EdX	4 weeks, 2-3 hours/week review 4.5/5 https://www.edx.org/course/global-inequality-wellesleyx-soc102x	33,434
political science	1. Configuring the world	Richard Thomas Griffiths Universiteit Leiden	coursera	8 weeks of study, 4-6 hours/week https://www.coursera.org/course/configuringworld	75,177
	2. How to Change the World	Michael S. Roth Wesleyan University	coursera	6 weeks of study, 3-5 hours/week https://www.coursera.org/course/changetheworl d	146,652
	3. Psychology of Political Activism: Women	Lauren Duncan Smith College	EdX	7 weeks, 3-5 hours/week user rating 4.5	20,295

	Changing the World			https://www.edx.org/course/psychology-political	
				-activism-women-smithx-psy374x	
	4. Making Government	Jennifer Widner	EdX	9 weeks, 3-5 hours/week	86,575
	Work in Hard Places	Princeton University		user rating 4.5	
				https://www.edx.org/course/making-governmen	
				t-work-hard-places-princetonx-mgwx	
	5. Understanding Europe:	Alberto Alemanno (M)	coursera	6 weeks, 2-4 hours/week	64,792
	Why it matters and what it	HEC Paris		user rating 4.5	
	can offer to you			https://www.coursera.org/learn/europe	
	6. Psychology of Political	Lauren Duncan (F)	EdX	7 weeks, 2-3 hours/week	24,107
	Activism: Women	Smith College		https://www.edx.org/course/psychology-political	
	Changing the World			-activism-women-smithx-psy374x-1	
education	1. Copyright for Educators	-Kevin Smith, Duke	coursera	2-3 hours/week, 5 weeks	44,233
	& Librarians	University Libraries		average user rating 4.6	
		-Lisa Macklin, Emory		https://www.coursera.org/learn/copyright-for-ed	
		University		ucation	
		- Anne Gilliland,			
		The University of			
		North Carolina at			
		Chapel Hill			
	2. What Future for	Dr Clare Brooks (F)	coursera	6-8 hours/week, 6 weeks	32,702
	Education	University of London,		https://www.coursera.org/learn/future-educatio	
		UCL Institute of		<u>n</u>	
		Education			
	3. Leaders of Learning	Eric Klopfer	EdX	6 weeks, 2-4 hours/week	36,581
		Scot Osterwell		user rating 4.5	
		Judy Pery		https://www.edx.org/course/leaders-learning-ha	
		Harvard University		rvardx-gse2x-0	

	4. Design and		EdX	9 weeks, 4-6 hours/week	97,797
	Development of	MITx		https://www.edx.org/course/design-developmen	
	Educational Technology			t-educational-mitx-11-132x-0	
	5. Supporting children	Dr. Jenny	coursera	6 weeks, 4-6 hours/week	62,759
	with difficulties in reading	Thompson(F)		user rating 4.8	
	and writing	Dr. Vincent Goetry(M)		https://www.coursera.org/learn/dyslexia-difficul	
		University of London,		<u>ties</u>	
		UCL Institute of			
		Education, Dyslexia			
		International			
	6. Foundations of Teaching	Professor John	coursera	4 weeks, 3-4hours/week	22,070
	for Learning I:	MacBeath,(M)		user rating 4.4	
	Introduction	Commonwealth		https://www.coursera.org/learn/teaching	
		Education Trust			
economics &	1. Model thinking	Scott Page, Professor	coursera	4-8 hours/week, 12 weeks	229,862
finance, also		of Complex Systems,		rated 4.8 out of 5 of 422 ratings	
include:		Political Science, and		https://www.coursera.org/learn/model-thinking	
-1) business		Economics			
and		University of Michigan			
management	2.Competitive Strategy	Tobias Kretschmer,	coursera	average user rating 4.7	54,668
- 2)		Professor		10 hours of videos and quizzes	
marketing,		Ludwig-Maximilians-U		https://www.coursera.org/learn/competitivestrat	
communicatio		niversität München		egy	
n		(LMU)			
	3. Introduction to	Darren Dahl	EdX	6 weeks, 3-4 hours/week	46,374
	Marketing	Paul Cubbon		user rating 4.5	
		the University of		https://www.edx.org/course/introduction-marke	
		British Columbia		ting-ubcx-marketing1x	

	4. Introduction to	Hyejung Yoon	coursera	7 weeks, 4-5 hours/week	83,095
	Economics—Part 1:	Joon Koo Lee		https://www.edx.org/course/introduction-econo	
	Microeconomics	Seoul National		mics-part-1-snux-snu044-088-1x	
		University			
	5. Financial Engineering	Martin Haugh (M)	coursera	13 hours	127,820
	and Risk Management II	Garud IIyengar (M)		user rating 4.7	
		Columbia University		https://www.coursera.org/learn/financial-engine	
				ering-2	
	6. Finance and Investing in	Stefanno Gatti (M)	coursera	6 weeks, 1-2 hours/week	45,597
	Infrastructure	Università Bocconi		user rating 4.8	
				https://www.coursera.org/learn/infrastructure-i	
				nvesting	
law	1. Internet Giants: The	Randal C. Picker,	coursera	about 23 hours of videos and assessments, 9	187,162
	Law and Economics of	James Parker Hall		weeks	
	Media Platform	Distinguished Service		average user rating 4.8	
		Professor of Law and		https://www.coursera.org/learn/internetgiants	
		Ludwig & Hilde Wolf			
		Teaching Scholar			
		The University of			
		Chicago			
	2. Introduction to	Michael Scharf,	coursera	7-8 hours of lectures and assignments, 8 weeks	65,064
	International Criminal	Interim Dean and		average user rating 4.7	
	Law	Joseph C. Hostetler -		self-paced	
		Baker & Hostetler		https://www.coursera.org/learn/international-cri	
		Professor of Law		minal-law	
		Case Western Reserve			
		University			
	3. American Government	Thomas E. Patterson	EdX	16 weeks, 3 hours/week	104,490

		Harvard University		user rating 5	
				https://www.edx.org/course/american-governme	
				nt-harvardx-hks101a	
	4. Contract Law: From	Charles Fried	EdX	8 weeks, 2-3 hours/week	54,222
	Trust to Promise to	Harvard University		user rating 5	
	Contract			https://www.edx.org/course/contract-law-trust-	
				promise-contract-harvardx-hls2x-0	
	5. European business law:	Juian Noweg (Male)	coursera	6 weeks, 10-15 hours/week	39,004
	doing business in Europe	Xavier Groussot (M,		user rating 4.7	
		Mia Rönner (F)		https://www.coursera.org/learn/eu-law-doing-b	
		Cecile Brokelind (F)		<u>usiness</u>	
		Sanja Bogojevic (F)			
		Michael Bogdan(M)			
		Niklas Arvidsson(M)			
		Lund University			
	6. International Law	Pierre d'Argent (M)	edX	8 weeks, 5-7 hours/week	93,758
		University of Louvain			
				https://www.edx.org/course/international-law-lo	
				<u>uvainx-louv5x-2</u>	
sum					2,186,744

3. Life science (total word count = 2,445,813) (4 subcategories x 6 = 24 courses)

Life science									
subcategory	course name	instructor name	platform	link	word				
					count				
biology	1. Introduction to	Jennifer Carbrey	coursera	22 hours of videos and assessment	160,406				

	Human Psychology	Emma Jakoi,		average user rating 4.7	
		Duke University		https://www.coursera.org/learn/physiology	
	2. The Addicted Brain	Michael Kuhar, Professor	coursera	3-4 hours/week, 7 weeks	39,974
		Emory University		average user rating 4.5	
				https://www.coursera.org/learn/addiction-and-	
				the-brain	
	3. Introduction to	Eric S. Lander, Graham	EdX	12 weeks, 7-14 hours/week	246,958
	Biology - The Secret of	Walker, Michelle		https://www.edx.org/course/introduction-biolo	
	Life	Mischke, Brian White,		gy-secret-life-mitx-7-00x-2	
		Mary Ellen Wiltrout			
		MIT			
	4. Essential Human	Mario Ricci, Rachel	EdX	5 weeks, 2-3 hours/week	21,480
	Biology: Cells and	Gibson, Sophie		user rating 4.5	
	Tissues	Karaicolas, Catherne		https://www.edx.org/course/essential-human-b	
		Selling, Femke		iology-cells-tissues-adelaidex-humbio101x-1	
		Buisman-Pijman			
		The University of			
		Adelaide			
	5. The Biology of Water	David M. Gute (M)	EdX	5 weeks, 3-6 hours/week	148,153
	and Health –	Jeffrey Griffiths (M)		rating 4/5	
	Sustainable	Carolyn Talmadge (F)		https://www.edx.org/course/biology-water-hea	
	Interventions	Open education		<u>lth-sustainable-oecx-ph242x</u>	
		Consortium			
	6. Genomics: Decoding	Gene E. Robinson (M)	coursera	6 weeks, 6-8 hours	51,204
	the Universal Language	University of Illinois at		user rating 5	
	of Life	Urbana-Champaign		https://www.coursera.org/learn/genomics-rese	
				arch	
health science	1. Case Studies in	Dan Roden	coursera	2-4 hours/week, 6 week	94,305

1) health &	Personalized Medicine	Vanderbilt University		average user rating 4.8	
society				https://www.coursera.org/learn/personalizedm	
2) medicine &				<u>ed</u>	
pharmacology	2. EDIVET: Do you	Jessie Paterson,	coursera	15-20 hours	39,349
3) sports	know what it takes to	Kay Aitchison		https://www.coursera.org/learn/becoming-a-ve	
4) veterinary	be a veterinarian?	Prof Susan Rhind		<u>terinarian</u>	
		Gurå Bergkvist			
		Rachel Whittington			
		Catriona Bell,			
		Andrew Gardiner,			
		University of Edinburgh			
	3. Health and Society	Ichiro Kawachi (M)	EdX	8 weeks, 2-5 hours/week	86,003
		Monica Wang (F)		user rating 4.5	
		Harvard University		https://www.edx.org/course/health-society-har	
				vardx-ph201x	
	4. An Introduction to	Anna Mia Ekströn, Asli	EdX	6 weeks, 2-5 hours/week	37,763
	Global Health	Kulane, Helena		user rating 4.5	
		Nordenstedt, Hans		https://www.edx.org/course/introduction-globa	
		Rosling		<u>l-health-kix-kiglobalhx</u>	
		Karolinska Institute			
	5. Medical Neuroscience	Leonard E.While (M)	coursera	13 weeks,	364,787
		Duke University		user rating 4.9	
				https://www.coursera.org/learn/medical-neuro	
				science	
	6. The Body Matters:	Dr. Ian Shrier (M),/	edX	10 weeks, 3-5hours week	153,103
	Why Exercise Makes	Guest speakers are:		review 4.5/5	
	you Healthy and How to	Patrice Aubertin (M),		https://www.edx.org/course/body-matters-why	
	stay Uninjured	Steven Blair (M),		-exercise-makes-you-mcgillx-body101x-0	

		1			
		Gloria Cohen(F),			
		Isabelle Duchesne(F)			
		Kerry Gordon(F),			
		Abe Kestenberg(M)			
		Paul McCrory(M)			
		Michael Montanaro(M)			
		Margo Mountjoy(F)			
		Bernard Petiot(M)			
		Andrew Pipe(M)			
		Robert E.Sallis(M)			
		McGill University			
food &	1. Stanford Introduction	Maya Adam	coursera	5 weeks of study, 1 hour/week	21,989
nutrition	to Food and Health	Stanford University		average user rating 4.6	
				https://www.coursera.org/learn/food-and-healt	
				<u>h</u>	
	2. Economic Issues,	Jennifer Clark	coursera	10 weeks of study, 4-6 hours/week	53,769
	Food & You	University of Florida		https://www.coursera.org/course/ecfoodandyo	
				<u>u</u>	
	3. Nutrition and Health	Sander Kersten	EdX	8 weeks, 6-8 hours/week	37,753
	Part 1: Macronutrients	Wageningen University		user rating 4.5	
	and Overnutrition			https://www.edx.org/course/nutrition-health-p	
				art-1-macronutrients-wageningenx-nutr101x-0	
	4. Nutrition and Health	Sander Kersten	EdX	7 weeks, 6-8 hours/week	55,904
	Part 2: Micronutrients	Wageningen University		user rating 4.5	
	and Malnutrition			https://www.edx.org/course/nutrition-health-p	
				art-2-micronutrients-wageningenx-nutr102x-0	
	5. Food Security and	Dr. I.J.M. de Boer(F)	edX	6 weeks, 8-10 hours/week	43,602
	Sustainability: System	Carolie Kroeze(F)		review 4/5	

	thinking and	Gerrie van de Ven (F)		https://www.edx.org/course/food-security-sust	
	environmental	Dr. Eddie Bookers(M)		ainability-systems-wageningenx-ffesx	
	sustainability	Martin van Ittersum(M)			
		Wageningen University &			
		Research			
	6. The New Nordic	Dr. Arne Astrup (M)	coursera	5 weeks, 4-5 hours/week	41,678
	Diet—from Gastronomy	University of		user rating 4.4	
	to Health	Copenhagen		https://www.coursera.org/learn/new-nordic-di	
				<u>et</u>	
psychology	1. A life of Happiness	Dr. Rajagopal	coursera	best 2015 free online course, No1.	128,129
	and Fulfillment	Raghunathan,		6 weeks of study, 2-3hours/week	
		Indian School of Business		average user rating 4.8	
				https://www.coursera.org/learn/happiness	
	2. introduction to	Steve Joordens	coursera	8 weeks of study, 4-6 hours/week	227,355
	Psychology	University of Toronto		https://www.coursera.org/course/intropsych	
	3. Introduction to	Jeneen Graham (F),	EdX	10 weeks, 4-5 hours/week	20,983
	Psychology	Jeremy Dailey		user rating 5	
		(M) ,Amanda Compton		https://www.edx.org/course/introduction-psyc	
		(M), Teomara Rutherford		hology-st-margarets-episcopal-school-psych101	
		(F), Tait Lihme (M)		<u>x-0</u>	
		St. Margaret's Episcopal			
		School			
	4. Useful Genetics Part	Rosemary Redfield	EdX	7 weeks, 6-8 hours/week	106,652
	1: How our Genes	University of British		user rating 5	
	Shape Us	Columbia		https://www.edx.org/course/useful-genetics-pa	
				rt-1-how-genes-shape-ubcx-usegen-1x-0	
	5. Moralities of	Paul Blooms (M)	coursera	6 weeks, user rating 4.8	185,297

	Everyday Life	Yale University		https://www.coursera.org/learn/moralities	
	6. Introduction to Social	Blake McKimmie (M),	edX	7 weeks, 1-2 hours/week	79,237
	Psychology	Roy Baumeistere (M)		review 4.5/5	
		The University of		https://www.edx.org/course/introduction-socia	
		Queensland, Australia		l-psychology-uqx-psyc1030-1x	
sum					2,445,81
					3

4. Physical science: (total word count = 2,110,632) (4 subcategories x 5 = 20 courses)

	Physical science						
subcategory	course name	instructor name	platform	link	word		
					count		
physics,	1. Understanding Einstein:	Larry Randles	coursera	8 weeks of study, 2-8 hours/week	477,365		
astronomy	The Special Theory of	Lagerstrom		https://www.coursera.org/course/einstein			
	Relativity	Stanford University					
	2. Imagining Other Earths	David Spergel(M)	coursera	20 hours of videos and assignment, 24 weeks	164,169		
		Princeton University		average user rating 4.8			
				https://www.coursera.org/learn/life-on-other-p			
				<u>lanets</u>			
	3. Astrophysics: Exploring	Brian Schmidt, Paul	EdX	9 weeks, 3 hours/week	101,360		
	Exoplanets	Francis		user rating 5			
		Australian National		https://www.edx.org/course/astrophysics-explo			
		University		ring-exoplanets-anux-anu-astro2x-1			
	4. Astrophysics. the violent	Brian Schmidt, Paul	EdX	9 weeks, 3 hours/week	109,073		
	universe	Francis		user rating 5			
		Australian National		https://www.edx.org/course/astrophysics-viole			
		University		nt-universe-anux-anu-astro3x-0			

	5. How Things Work: An	Louis A. Bloomfield (M)	coursera	8 weeks, 11 hours	81,487
	introduction to physics	University of Virginia		user rating 4.8	
				https://www.coursera.org/learn/how-things-wo	
				<u>rk</u>	
chemistry	1. General Chemistry:	John Hutchinson (M)	coursera	11 weeks	160,171
	Concept Development and	Rice University		average user rating 4.6	
	Application			https://www.coursera.org/learn/general-chemi	
				stry	
	2. Introduction to Physical	Patrick O'Malley (M)	coursera	10 weeks, 12-15 hours	71,978
	Chemistry	Michael Anderson (M)		average user rating 4.6	
		Jonathan Agger (M)		https://www.coursera.org/learn/physical-chemi	
		University of Manchester		stry	
	3. Medicinal Chemistry:	Erland Stevens	EdX	7 weeks, 6-8 hours/week	75,227
	The Molecular Basis of	Davidson College		user rating 4.5	
	Drug Discovery			https://www.edx.org/course/medicinal-chemist	
				ry-molecular-basis-drug-davidsonx-d001x-1	
	4. Science in Art: The	Henry DePhillips	EdX	6 weeks, 3-4 hours/week	25,555
	Chemistry of Art Materials	Trinity College		user rating 4.5	
	and Conservation			https://www.edx.org/course/science-art-chemi	
				stry-art-materials-trinityx-t001x	
	5. Introduction to	Dorian A. Canelas (F)	coursera	7 weeks, user rating 4.8	99,465
	Chemistry: Structures and	Duke University		https://www.coursera.org/learn/basic-chemistr	
	Solutions			У	
engineering	1. Mechanic Materials I:	Dr. Wayne Whiteman,	coursera	5 weeks, 5-7hours/week	34,766
	Foundations of Stress &	Georgia Institute of		average user rating 4.8	
	Strain and Axial Loading	Technology		https://www.coursera.org/learn/mechanics-1	

	2. Converter Circuits	Robert Erickson	coursera	4 weeks, 1-3 hours/week	52,092
		University of Colorado		average use rating 4.8	
		Boulder		https://www.coursera.org/learn/converter-circ	
				<u>uits</u>	
	3. Mechanical Behavior of	Lorna j. Gibson	EdX	5 weeks, 12 hours/week	54,039
	Materials, Part 1: Linear	MIT		user rating 4.5	
	Elastic Behavior			https://www.edx.org/course/mechanical-behavi	
				or-materials-part-1-mitx-3-032-1x	
	4. Sustainable Urban	Arjan van Timmeren,	EdX	7 weeks, 4-6 hours/week	73,084
	Development: Discover	Huub H.M. Rijnaarts,		user rating 5	
	Advanced Metropolitan	Mariette Overschie,		https://www.edx.org/course/sustainable-urban	
	Solutions	Marc Spiller		-development-discover-delftx-wageningenx-ams-	
		Deflt University of		urb-1x	
		Technology			
		Wageningen University			
	5. Digital Systems: From	Elena Valderrama(F),	coursera	8 weeks, 4 hours/week	74,321
	Logic Gates to Processors	Jean-Pierre Deschmps		user rating 4.5	
		(M),		https://www.coursera.org/learn/digital-systems	
		Lluis Teres (M), Merce			
		Rullan (F), Joaquin Saiz			
		Alcaine (M), David			
		Baneres (M), Juan			
		Antonio Martiez (M)			
		Universitat Autònoma de			
		Barcelona			
energy &	1. Our Earth: Its Climate,	Prof. David M. Schultz	coursera	5 weeks of study, 5-8 hours/week	30,848
earth	History, and Processes	Dr. Rochelle Taylor		https://www.coursera.org/course/ourearth	

science		Dr. Jonathan Fairman			
		University of Manchester			
	2. Our Energy Future	Stephen Mayfield	coursera	45 hours of videos, quizzes, and peer reviews	253,851
		University of California,		average user rating 4.7	
		San Diego		https://www.coursera.org/learn/future-of-ener	
				gy	
	3. Natural Disasters	John Gyakum	EdX	12 weeks, 5 hours/week	107,494
		John Stix		average user rating 4.5	
		McGill		https://www.edx.org/course/natural-disasters-	
				mcgillx-atoc185x-1	
	4. Introduction to	Andrew J. Friedland,	EdX	4 weeks, 5 hours/week	31,455
	Environmental Science	Michael Goudzwaard,		user rating 5	
		Joby Bernstein '17, Chloe		https://www.edx.org/course/introduction-envir	
		Madill '17, Justin		onmental-science-dartmouthx-dart-envs-02x	
		Richardson, R. Michael			
		Murray, Sawyer Broadley			
		'08			
		Dartmouth College			
	5. Greening the Economy:	Kes. McCormick(M), Lena	coursera	5 weeks, 5 hours/week	456,480
	Sustainable Cities	Neji(F), James Evans(M),		user rating 4.6	
		Harriet Bulkeley(F),		https://www.coursera.org/learn/gte-sustainabl	
		Lund University		<u>e-cities</u>	
sum					2,110,632

5. Information, computer science & mathematics (word count= 2,401,342) (4 subcategories x 5 = 20 courses)

	Information, computer science & mathematics							
subcategory	course name	instructor name	platform	link	word			
					count			
computer science:	1. computer science	Nick Parlante	coursera	3-5hours/week, 6 weeks	75,796			
1) artificial	101	Standford University		https://class.coursera.org/cs101-selfservice				
intelligence,								
robotics, vision	2. Programming for	Charles Severance,	coursera	Course 1 of 5 in the Python for Everyone Specification	103,227			
2) system	everyone (getting	Associate Professor		2-4 hours/week, 7 weeks				
security,	started with Python)	University of		average user rating 4.8				
networking		Michigan,		https://www.coursera.org/learn/python				
3) programming	3.Intro to computer	David Evans,	Udacity	Join 543,467 students	162,159			
& software	science			https://www.udacity.com/course/intro-to-computer-				
engineering				sciencecs101				
	4.Introduction to	-David J.Malan	EdX	9 problems set (10 to 20 hours each), 1 final project	117,968			
	computer science	-Rob Bowden		https://www.edx.org/course/introduction-computer				
		-Zamyla Chen		-science-harvardx-cs50x				
		-Doug Lloyd						
		HarvardX						
	5. Machine Learning	Andrew Ng (M)	coursera	11 weeks	193,659			
		Stanford University		user rating 4.9				
				https://www.coursera.org/learn/machine-learning				
robotics &	1. Fundamentals of	Robert Clark,	coursera	12 hours of lectures and assignments	92,413			
electronics	Audio and Music	Mark Bocko,		average user rating 4.5				
(electronic	Engineering: Part 1	University of		https://www.coursera.org/learn/audio-engineering				
engineering)	Music Sounds &	Rochester						
	Electronics							
	2. Artificial Intelligence	Dr. Gerhard Wickler,	coursera	7 weeks, 3-8 hours/week	113,921			
	Planning	Prof. Austin Tate		https://www.coursera.org/course/aiplan				

		University of			
	3. Electronic Interfaces:	Edinburgh	EdX	O alas (10 h a / ala	00.500
		Michel M. Maharbiz,	Eax	8 weeks, 6-10 hours/week	98,590
	Bridging the Physical	Tom Zajdel		https://www.edx.org/course/electronic-interfaces-br	
	and Digital World	University of		idging-physical-uc-berkeleyx-ee40lx-0	
		California, Berkeley			
	4. Robot Mechanics and	Frank C. Park, Keunjun	EdX	6 weeks, 5-8 hours/week; 2-3 hours for lectures, 3-5	45,063
	Control, Part I	Choi, Yongsuk Hong,		hours for homework/self-study	
		Wooyoung Kim,		user rating 4	
		Seunghyeon Kim,		https://www.edx.org/course/robot-mechanics-contr	
		Hyungjoon Cho		ol-part-i-snux-snu446-345-1x	
		Seoul National			
		University			
	5. Circuits and	Anant Agarwal (M),	edx	5 weeks, 6 hours/week	120,308
	Electronics 1: Basic	Gerald Sussman(M),		review 5/5	
	Circuit Analysis	Piotr Mitros(M), Chris		https://www.edx.org/course/circuits-electronics-1-b	
		Terman (M), Bonnie		asic-circuit-mitx-6-002-1x-0	
		Lam (F)			
		MIT (Massachusetts			
		Institute of			
		Technology)			
mathematics	1. Introduction to	Dr. Keith Devin	coursera	10 weeks of study, 8-10 hours/week	153,518
	Mathematical Thinking	Standford Univ.		https://www.coursera.org/course/maththink	
	2. Calculus One	Jim Fowler	coursera	25 hours of videos and quizzes	174,240
		The Ohio State		user rating 4.8	
		University		https://www.coursera.org/learn/calculus1	
	3. Fun with Prime	Tetsushi Ito	EdX	4 weeks, 1 hour/week	11,078

	Numbers: The	Kyoto University		user rating 4.5	
	Mysterious World of			https://www.edx.org/course/fun-prime-numbers-m	
	Mathematics			<u>ysterious-world-kyotoux-004x-0</u>	
	4. Introduction to	Paul Blanchaard	EdX	7 weeks, 8-10 hours/week	72,483
	Differential Equations	Kyle Vigil		user rating 4.5	
		Boston University		https://www.edx.org/course/introduction-differenti	
				al-equations-bux-math226-1x-0	
	5. I "Heart" Stats:	Dan Myers (M)	edX	9 weeks, 4-6 hours/week	96,028
	Learning to Love	University of Norte		review 4.5/5	
	Statistics	Dame		https://www.edx.org/course/i-heart-stats-learning-l	
				ove-statistics-notredamex-soc120x	
data science	1. Machine Learning	Andrew Ng, Associate	coursera	11 weeks	190,151
1) information,		Professor, Stanford		average user rating 4.9	
technology, and		University; Chief		https://www.coursera.org/learn/machine-learning	
design		Scientist, Baidu;			
2) statistics &		Chairman and			
data analysis		Co-founder, Coursera			
		Stanford University			
	2. The Data Sciencetist's	Jeff Leek, Associate	coursera	course 1 of 10 in the Data Science Specialization	25,940
	Toolbox	Roger D. Peng, PhD,		1-4 hours/week, 4 weeks	
		Brian Caffo,		https://www.coursera.org/learn/data-scientists-tool	
		John Hopkins		<u>s</u>	
		University			
	3. Data Science	Graeme Malcolm	EdX	6 weeks, 2-4 hours/week	25,559
	Orientation	Liberty J. Munson		user rating 4.5	
		Microsoft		https://www.edx.org/course/data-science-orientatio	
				n-microsoft-dat101x	
	4. Introduction to	John Tsitsiklis, Patrick	EdX	16 weeks, 12 hours/week	373,883

	Probability—The	Jaillet, Zied Ben		user rating 5	
	Science of Uncertainty	Chaouch, Dimitri		https://www.edx.org/course/introduction-probabilit	
		Bertsekas, Qing He,		y-science-mitx-6-041x-1	
		Jimmy Li, Jagdish			
		Ramakrishnan, Katie			
		Szeto, Kuang Xu			
		MIT			
	5. Data Science Ethics	H. V. Jagadish (M)	edX	4 weeks, 3-4 hours/week	36,819
		University of Michigan		https://www.edx.org/course/data-science-ethics-mic	
				higanx-ds101x-1	
sum					2,401,34
					2