



Centre for Innovation in Learning and Teaching (CILT)

The Centre for Innovation in Learning and Teaching (CILT) is responsible to provide Continuous Professional Development (CPD) interventions to all academic staff members. These CPD interventions can be in the form of workshops, seminars, CPD short courses, etc. To support our CILT mandate in terms of CPD capacity building, we have decided to compile a list of Massive Open Online Courses (MOOCs) that Academic staff might benefit from. This MOOCs list addresses some of the needs that were highlighted in our Training Needs Analysis (TNA) that was administered in November 2022.

The UNAM academic community is hereby invited to explore these MOOCs from the list provided as self-study resources. Please note that these MOOCs have different starting and completion dates. In addition, the MOOCs are free of charge, however some MOOCs do provide the opportunity to attain a professional digital certificate at an additional cost.

Massive Open Online Courses (MOOCs)

	NO	MOOC Title	Overview of the MOOC	Start Date	MOOC Information Link
TEACHING AND LEARNING	1	Strategies for Online Teaching and Learning	<ul style="list-style-type: none"> Learn how to deliver engaging online content based on established distance education methodologies; Learn best practices and pedagogy for teaching and learning in online modalities; Learn how to conduct appropriate assessment for online courses/programs; Taking into account different learner demographics, acquire tips for supporting students online, and fostering an inclusive and interactive learning environment. 	09 March 2023	https://www.edx.org/course/strategies-for-teaching-online
	2	Inclusive Teaching: Supporting all students in the college classroom	<ul style="list-style-type: none"> Identify instructor assumptions about students and how these assumptions impact teaching practices Develop an awareness of critical self-reflection and its value in teaching diverse learners Define the key components that impact inclusive classrooms Apply inclusive teaching strategies in individual teaching contexts Identify resources needed to continually improve inclusive teaching practice 	Open – no starting date	https://www.edx.org/course/inclusive-teaching-supporting-all-students-in-the
	3	How You Say It Matters: A Toolkit for Improving Communications About Academic Standing	<ul style="list-style-type: none"> How students feel and what they think when they receive communications about academic standing-and how this differs from what administrators intend How students' negative reactions, like shame and stigma, can interfere with their academic progress How to write "psychologically attuned" communications that lead students to feel less ashamed and more supported How to collect feedback to better understand students' experiences and their reactions to academic standing communications at your school How to work with colleagues to refine, implement, and evaluate revised academic standing communications How this could apply to other communications 	09 March 2023	https://www.edx.org/course/communicating-about-academic-probation-a-toolkit-for-college-administrators

4	How to learn online	<ul style="list-style-type: none"> Self-care techniques that will help you maintain a healthy mind for effective online learning. Time management with the help of some common technology. Key learning strategies backed by research from edx partners. Build strong connections with fellow learners and your instructors. Setup your work area in order to focus and be a successful online learner. 	09 March 2023	https://www.edx.org/course/how-to-learn-online
5	Problem Solving and Critical Thinking Skills	<ul style="list-style-type: none"> How to frame problems using a systematic, repeatable process How to develop and test solutions using the 80/20 rule How to identify user needs and develop solutions to meet them How to use design thinking to generate ideas and discover creative solutions How to plan and execute primary and secondary research How to design and build effective surveys 	09 March 2023	https://www.edx.org/course/problem-solving-and-critical-thinking-skills-2
6	All my own work: exploring academic integrity	<ul style="list-style-type: none"> Understand what is meant by plagiarism Understand why it is important to produce one's own work Recognise what is meant by 'in-text citation' and 'full reference' Understand the difference between 'collaboration' and 'collusion' Show knowledge of techniques to avoid plagiarism. 	None indicated, self-paced study	https://www.open.edu/openlearn/education-development/all-my-own-work-exploring-academic-integrity/content-section-overview?active-tab=description-tab
7	Assistive technologies and online learning	<ul style="list-style-type: none"> Understand what is meant by assistive technology Recognise different forms of assistive technology Understand some students' experiences of using assistive technology. 	None indicated, self-paced study	https://www.open.edu/openlearn/education-development/assistive-technologies-and-online-learning/content-section-0?active-tab=description-tab
8	Creative writing and critical reading	<ul style="list-style-type: none"> Understand the importance of reading as part of a creative writer's development Engage analytically and critically with a range of literary and media texts Recognise how critical reading supplies writers with inspiration and ideas Understand through writing practice one or more of the taught genres of fiction, creative nonfiction, poetry and scriptwriting Engage with postgraduate modes of reading and writing practice. 	None indicated, self-paced study	https://www.open.edu/openlearn/history-the-arts/creative-writing-and-critical-reading/content-section-0?active-tab=description-tab
9	Essay and report writing skills	<ul style="list-style-type: none"> Understand what writing an assignment involves Identify strengths and weaknesses Understand the functions of essays and reports Demonstrate writing skills. 	None indicated, self-paced study	https://www.open.edu/openlearn/education-development/essay-and-report-writing-skills/content-section-0?active-tab=description-tab
10	Understanding ADHD	<ul style="list-style-type: none"> Define key terms in the field of ADHD research Describe the characteristics of ADHD and how they are used in diagnosis Describe the patterns of prevalence of ADHD, including the reasons for disparities worldwide Describe the risk factors and brain 	None indicated, self-paced study	https://www.open.edu/openlearn/health-sports-psychology/understanding-adhd/content-section-0?active-tab=description-tab

		<ul style="list-style-type: none"> changes associated with ADHD Outline key approaches to managing ADHD, with reference to their scientific evidence base. 			
TEACHING AND LEARNING	11	Understanding autism	<ul style="list-style-type: none"> Outline what is meant by autism, why it is considered a spectrum and how it affects different individuals and families Appreciate different approaches to understanding autism, including theoretical and clinical perspectives and personal accounts Outline key features of psychological, neurobiological and genetic explanations of autism Explain key aspects of diagnosis, intervention, education and life-span development Understand topical issues including neurodiversity perspectives, autism prevalence in women and autism in global context. 	None indicated, self-paced study	https://www.open.edu/openlearn/science-maths-technology/understanding-autism/content-section-overview?active-tab=description-tab
	12	21st Century Learning	<ul style="list-style-type: none"> Describe current learning technologies, resources and practices. Analyse their own learning practices. Incorporate new practices into their own teaching 	Open-ongoing	https://platform.europeanmoocs.eu/course/21st_century_learning
RESEARCH	13	Information Literacy—Essential to Academic Researcher	<ul style="list-style-type: none"> Information Literacy is essential to academic researcher How to execute effective search of academic information How to find facts and figures Knowing Open Access and Internet search engines Basic knowledge of academic communication and norm How to manage your personal knowledge 	Open – no starting date	https://www.edx.org/course/information-literacyessential-to-academic-researchergeneralxin-xi-su-yang-xue-zhu-yan-jiu-de-bi-xiu-ke
	14	Postgraduate study skills in science, technology or mathematics	<ul style="list-style-type: none"> Demonstrate a familiarity with the required rigour, depth, and scope of a phd Demonstrate an awareness that there is no 'one solution', but that phd models are influenced by institutions, disciplines, and topics Demonstrate an awareness of the need for both good research and good presentation Show initiative, develop the ability to work independently and be self-reliant Assign key tasks and schedule time. 	None indicated, self-paced study	https://www.open.edu/openlearn/education-development/postgraduate-study-skills-science-technology-or-mathematics/content-section-0?active-tab=description-tab
	15	The digital scholar	<ul style="list-style-type: none"> Understand what is meant by the term 'digital scholarship' Recognise boyer's scholarship framework Consider new approaches to research afforded by digital scholarship Understand how digital, networked technology can influence public engagement Appreciate the influence of the recent mooc development. 	None indicated, self-paced study	https://www.open.edu/openlearn/education-development/the-digital-scholar/content-section-overview?active-tab=description-tab
	16	The Postdoc Academy: Succeeding as a Postdoc	<ul style="list-style-type: none"> Explore identities and roles you hold and how they impact your work environment; Identify strategies to transition into your new postdoc community and align your expectations with those of your mentor; 	Enrollment for the next cohort now open	https://www.edx.org/course/the-postdoc-academy-succeeding-as-a-postdoc?hs_analytics_source=referrals&utm_source=mooc.org&utm_medium=referral&utm_campaign=mo

		<ul style="list-style-type: none"> Apply career planning tools effectively and create an actionable plan that can both guide and be integrated into day-to-day practice; Develop and implement an action plan to support progress on personal or professional goals that effectively build and sustain resilience; Reflect on your own professional and personal identities and explore how to cultivate and support an inclusive research environment. 		oc.org/course-list
17	Planning Your Scientific Journey	<ul style="list-style-type: none"> Criteria to evaluate a research question. A plan for how to approach your scientific question and other research goals. An agenda for a meeting with your mentor to get feedback on your plan. 	Open enrollment	https://courses.ibiology.org/catalog/PYSJ/SP/
18	Research Ethics: a guide for responsible research with human subjects	<ul style="list-style-type: none"> What research ethics is Why ethics is necessary in research What are the main ethical issues in research How researchers can actively engage with ethics when undertaking research Which ethical considerations must be made in research involving human subjects What ethical codes and guidelines researchers must follow and the ethical principles that shaped them How to assess risks and benefits of research What the role of a Research Ethics Committee is What are the criteria for a valid informed consent How to do research with vulnerable individuals and populations How to protect participants' privacy and confidentiality How to identify ethical misconduct in research and understand how to avoid it How to critically think of research and apply ethical reasoning 	09 March 2023	https://www.edx.org/course/research-ethics-a-guide-for-responsible-research-with-human-subjects?irclickid=XzYzYvzLoxylUgg3y0R%3AYzP4UkAU6HSEJQfxT40&utm_source=affiliate&utm_medium=CoToNet%20-%20Tecnologias%20de%20Informacion%20C3%A7%C3%A3o%2C%20Unipessoal%20Lda&utm_campaign=Online%20Tracking%20Link_&utm_content=ONLINE_TRACKING_LINK&irgwc=1
19	Research Instruments and Research Hypotheses (Coursera)	<ul style="list-style-type: none"> Develop an instrument design strategy Design and use research instruments Reflect on basic data analysis approaches 	09 March 2023	https://www.coursera.org/learn/research-instruments-and-research-hypotheses?action=enroll&irclickid=zLK1E6zRvxyNRpcxQUTgxq3UkAU6CWQJQfxT40&irgwc=1&utm_campaign=315774&utm_content=b2c&utm_medium=partners&utm_source=impact
20	Qualitative Research in Psychology	<ul style="list-style-type: none"> Describe the philosophical and interpretive foundations of qualitative research. Differentiate qualitative claims, methods, and analyses from quantitative claims, methods, and analyses. Explore, identify, and evaluate core qualitative traditions (phenomenology, narrative inquiry, constructivist grounded theory, ethnographic inquiry, and case study). Distinguish common methods (e.g., interviewing, focus groups) and analytical techniques (qualitative data analysis) used within and across core 	09 March 2023	https://www.edx.org/course/qualitative-research-in-psychology?irclickid=XzYzYvzLoxylUgg3y0R%3AYzP4UkAU6sykjqfxT40&utm_source=affiliate&utm_medium=CoToNet%20-%20Tecnologias%20de%20Informacion%20C3%A7%C3%A3o%2C%20Unipessoal%20Lda&utm_campaign=Online%20Tracking%20Link_&utm_content=ONLINE_TRACKING_LINK&irgwc=1

			<p>qualitative traditions.</p> <ul style="list-style-type: none"> Begin thinking about your own qualitative study of a topic in psychology. 		
RESEARCH	21	Introduction to Market Research	<ul style="list-style-type: none"> Discuss the essentials of market research Focus on the research process Formulate research questions and research objectives Develop a research proposal 	09 March 2023	https://www.coursera.org/learn/market-research-course-1?irclid=zLK1E6zRvxyNRpcxQQUtGxq3UkAU6sX4JQfxT40&irgwc=1&utm_medium=partners&utm_source=impact&utm_campaign=315774&utm_content=b2c
	22	COVID-19: Understanding the Research Behind the Pandemic (FutureLearn)	<ul style="list-style-type: none"> Develop an understanding of the critical role of research in responding to the COVID-19 pandemic, and how this has changed health research. Explain the process of research and how this has been accelerated in response to the COVID-19 pandemic. Describe how vaccines have been developed and how this has been done safely and ethically. Explain findings from COVID-19 treatment research and understand how COVID-19 treatments have been developed (including the role of members of the public). Summarise how COVID-19 has changed the way that research will be delivered in the future, and why there is a need to continue COVID-19 research. Explore how to find out more about taking part in research. 		https://www.futurelearn.com/course/covid19-understanding-the-research?utm_source=rakutenmarketing&utm_medium=affiliate&utm_campaign=fl_3132850:MOOC+List&utm_content=10:1&utm_term=UKNetwork&ranMID=42801&ranEAID=*GqSdLGGurk&ranSiteID=.GqSdLGGurk-igCqx.GY7tsYcAE4LCuMwQ
	23	Quantitative and Qualitative Research for Beginners (edX)	<ul style="list-style-type: none"> After completing this course, students should: Understand general principles of research design; Know why and how research is undertaken; Be able to identify the overall process of designing a research study from its inception to its report; Be able to identify a research problem stated in a study; Be familiar with conducting a literature review for a research study; Know the primary characteristics of quantitative research, qualitative research, and mixed methods research; Know the steps involved in conducting research; Be able to distinguish between the writing structure used for a quantitative study and one used for a qualitative study. 	09 March 2023	https://www.edx.org/course/quantitative-and-qualitative-research-for-beginners?irclid=XzYzYvzLoxyIUgg3y0R%3AYzP4UkAU6pToJQfxT40&utm_source=affiliate&utm_medium=CoToNet%20-%20Tecnologias%20de%20Informa%C3%A7%C3%A3o%2C%20Unipessoal%20Lda&utm_campaign=Online%20Tracking%20Link_&utm_content=ONLINE_TRACKING_LINK&irgwc=1
PROJECT MANAGEMENT	24	Qualitative Data Analysis with MAXQDA Software (Coursera)	<ul style="list-style-type: none"> This course will introduce you to MAXQDA software for easier data analysis during the qualitative research process. You'll explore how to do memos, variables, segmentation, coding, and data reduction techniques all in this course! 		https://www.coursera.org/learn/qualitative-data-analysis-with-maxqda-software?irclid=zLK1E6zRvxyNRpcxQQUtGxq3UkAU6uwsJQfxT40&irgwc=1&utm_medium=partners&utm_source=impact&utm_campaign=315774&utm_content=b2c
	25	Reproducible Research (Coursera)	<ul style="list-style-type: none"> Organize data analysis to help make it more reproducible Write up a reproducible data analysis using knitr 	09 March 2023	https://www.coursera.org/learn/reproducible-research?irclid=zLK1E6zRvxyNRpcxQQUtGxq3UkAU6uXYJQfxT40&

		<ul style="list-style-type: none"> Determine the reproducibility of analysis project Publish reproducible web documents using Markdown 		irgwc=1&utm_medium=partners&utm_source=impact&utm_campaign=315774&utm_content=b2c	
PROJECT MANAGEMENT	26	Introduction to Digital Project Management (Udacity)	<ul style="list-style-type: none"> Define digital project management Identify business stakeholders Identify core project management skills Define related career paths Learn more about the Project Management Professional (PMP) exam Project-manage your own career path using a five-step plan Distinguish the difference between digital and traditional project management Identify common business justifications for initiating digital projects Define the five key stages of the project management lifecycle 	09 March 2023	https://www.udacity.com/course/introduction-to-digital-project-management--ud043?irclid=1WDzI%3AT5HxyNUAZWPp1MB0h4UkAU6o2EJQfxT40&irgwc=1&utm_source=affiliate&utm_medium=&aff=315774&utm_term=&utm_campaign=&utm_content=&adid=851423
	27	Project Management: Beyond planning and control (Coursera)	<ul style="list-style-type: none"> Identify the main variables of a project in a business context and describe the differences between projects and processes Identify different organizational structures when working on a project Describe the main human and cultural dimensions when working on projects Pick the best organizational structure for a project 	06 March 2023	https://www.coursera.org/learn/project-management-beyond-planning-and-control?irclid=zLK1E6zRvxyNRpcxQUTgxq3UkAU6oSUJQfxT40&irgwc=1&utm_medium=partners&utm_source=impact&utm_campaign=315774&utm_content=b2c
	28	Project Management: Control using the Earned Value and Risk (Coursera)	<ul style="list-style-type: none"> Understand the main indicators to control a project in a business context. Use the right tools to control a project when managing it. Understand the definition of risk in a project. Remember the main typologies of risk approaches in project management. 	09 March 2023	https://www.coursera.org/learn/control-and-replan-using-earned-value-and-risk?irclid=zLK1E6zRvxyNRpcxQUTgxq3UkAU6twoJQfxT40&irgwc=1&utm_medium=partners&utm_source=impact&utm_campaign=315774&utm_content=b2c
	29	Introduction to Project Management	<ul style="list-style-type: none"> Core knowledge and applied skills in project management Essential communication skills to help you manage a project An understanding of why today's projects are more complex 	09 March 2023	https://www.edx.org/course/introduction-to-project-management?hs_analytics_source=referrals&utm_source=mooc.org&utm_medium=referral&utm_campaign=mooc.org-course-list
Community Engagement	30	Community Engagement in Research and Population Health (Coursera)	<ul style="list-style-type: none"> Beyond health care delivery Population Health data, evidence and research Community engaged health systems Effective community engagement 	09 March 2023	https://www.coursera.org/learn/community-engagement-research-population-health?irclid=zLK1E6zRvxyNRpcxQUTgxq3UkAU6tQkQJfxT40&irgwc=1&utm_medium=partners&utm_source=impact&utm_campaign=315774&utm_content=b2c
	31	Creating Meaningful and Inclusive Museum Practices	<ul style="list-style-type: none"> Reflect on the importance of historically marginalized groups defining yourself, your positionality and sense of belonging Analyze institutional structures and leaders to collaborative work in an ethical perspective Explain Inclusive Design methodology and its importance in creating institutions that foster a feeling of belonging 	Ongoing	https://www.futurelearn.com/courses/meaningful-inclusive-museum-practices?utm_source=rakutenmarketing&utm_medium=affiliate&utm_campaign=fl_3132850:MOOC+List&utm_content=10:1&utm_term=UKNetwork&ranMID=42801&ranEAID=*GqSdLGGurk&ranSiteID=.GqSdLGGurk-QDCaU9OpSWPSizBJv.Agwg

MENTORSHIP			<ul style="list-style-type: none"> Apply selected participatory methodologies to their contexts 		
	32	Tools for Academic Engagement in Public Policy (edX)	<ul style="list-style-type: none"> Basic understanding of policymaking and policy stakeholders How to identify and prioritize policy stakeholders Practical skills to engage with policymakers 	09 March 2023	https://www.edx.org/course/tools-for-academic-engagement-in-public-policy?irclickid=XzYzYvzLoxylUgg3y0R%3AYzP4UkAU6MR4JQfxT40&utm_source=affiliate&utm_medium=CoToNet%20-%20Tecnologias%20de%20Informa%C3%A7%C3%A3o%2C%20Unipeessoal%20Lda&utm_campaign=Online%20Tracking%20Link_&utm_content=ONLINE_TRACKING_LINK&irgwc=1
	33	Mentoring engineers with impact (edX)	<ul style="list-style-type: none"> Learn to map the various forms of professional career guidance and identify the particular role of mentoring. Recognize what drives somebody to take up the role as a mentor. Obtain an overview of the practicalities and prerequisites for a well-structured and sustainable mentoring cycle. Understand the "Competency based - Growth & Success by strengthening competitive advantages" approach. Distinct what stands out in importance for an engineer in a holistic mentoring cycle. 	Open enrollment	https://www.edx.org/course/mentoring-engineers-with-impact?irclickid=XzYzYvzLoxylUgg3y0R%3AYzP4UkAU6PxcJQfxT40&utm_source=affiliate&utm_medium=CoToNet%20-%20Tecnologias%20de%20Informa%C3%A7%C3%A3o%2C%20Unipeessoal%20Lda&utm_campaign=Online%20Tracking%20Link_&utm_content=ONLINE_TRACKING_LINK&irgwc=1
	34	Teaching Reluctant Writers	<ul style="list-style-type: none"> Teaching reluctant writers 	09 March 2023	https://www.coursera.org/learn/teaching-reluctant-writers?irclickid=zLK1E6zRvxyNRpCxQUTgxq3UkAU6P3kJQfxT40&irgwc=1&utm_medium=partners&utm_source=impact&utm_campaign=315774&utm_content=b2c
	35	Becoming a Student Assistant: Teaching and Mentoring (FutureLearn)	<ul style="list-style-type: none"> By the end of the course, you'll be able to... Contribute professionally in a higher education working environment Develop a well-founded opinion of what is a good university teacher and mentor Identify the basic principles for designing a course Explore the aspects of how to teach a small group session in an interactive way while paying attention to classroom management and atmosphere Interpret the difference between directive and facilitative formative feedback Reflect on challenges students participating in governing bodies face 		https://www.futurelearn.com/courses/students-higher-education?utm_source=rakutenmarketing&utm_medium=affiliate&utm_campaign=fl_3132850:MOOC+List&utm_content=10:1&utm_term=UKNetwork&ranMID=42801&ranEAID=*GqSdLGGurk&ranSiteID=.GqSdLGGurk-cxbLtRSFk29JbsKFmHW5tA
36	Leadership Coaching through Turbulent Times: Playing with eFIRE	<ul style="list-style-type: none"> Apply the efire coaching model in leadership conversations Discuss approaches to coaching when applied to leadership practice and development Identify strategies to enhance the potentials and overcome the pitfalls of the leader-as-coach 	Ongoing	https://www.futurelearn.com/courses/leadership-coaching?utm_source=rakutenmarketing&utm_medium=affiliate&utm_campaign=fl_3132850:MOOC+List&utm_content=10:1&utm_term=UKNetwork&ranMID=42801&ranEAID=*GqSdLGGurk&ranSiteID=.GqSdLGGurk-xfNKUkxqvY5uXPzC8BOPyw	

ICT	37	Success	<ul style="list-style-type: none"> • Launching Your Personal Search for Success • How to Think About Success on Your Own Terms • Diving Deeper: What Research Tells Us About Achievement and Happiness • Putting it Together: Charting Your Path to the Future 		https://www.coursera.org/learn/wharton-success
	38	Introduction to cyber security: stay safe online	<ul style="list-style-type: none"> • Start to protect your digital life • Recognise threats to your online safety • Take steps to reduce the risk of online threats • Understand concepts including malware, viruses and trojans • Consider network security, cryptography and identity theft. 	None indicated, self-paced study	https://www.open.edu/openlearn/science-maths-technology/introduction-cyber-security-stay-safe-online/content-section-overview?active-tab=description-tab
	39	Introduction to Cloud Development with HTML5, CSS3, and JavaScript	<ul style="list-style-type: none"> • Understand the Cloud Development Ecosystem and Terminology like front-end developer, back-end, server-side, full stack, etc. • Become familiar with the developer tools and ides used by web programmers • Work with programming languages used by front-end developers for creating user interfaces • Practice and develop hands-on skills to work with HTML, CSS and javascript • Manage and version control your projects with Git and github 	08 March 2023	https://www.edx.org/course/introduction-to-cloud-development-with-html5-css3-and-javascript
	40	Design Thinking Fundamentals	<ul style="list-style-type: none"> • Describe the systematic process to define and solve problems • Formulate ideas for problem solving • Discuss solutions that integrate product configuration, functionality and user experience • Identify the design thinking processes and methods 	09 March 2023	https://www.edx.org/course/design-thinking-fundamentals
	41	How Virtual Reality Works	<ul style="list-style-type: none"> • Types of virtual reality devices and their strengths and weaknesses • How virtual reality applications differ from other interactive software programs • What makes a virtual reality application successful • What to avoid when writing virtual reality software • Basic VR programming using webvr 	09 March 2023	https://www.edx.org/course/how-virtual-reality-works
	42	Human-Computer Interaction I: Fundamentals & Design Principles	<ul style="list-style-type: none"> • The overall goals of human-computer interaction. • The relationship between HCI, user experience design, human factors engineering, and psychology. • The relevance of HCI to domains like healthcare, education, and cybersecurity. • The trends in HCI technology including virtual reality, augmented reality, and robotics. • The emerging ideas in HCI research, such as context-sensitive computing, gesture-based interaction, and social computing. • The three main schools of thought in HCI: the processor, predictor, and participant views. • The feedback cycle in user interaction, including gulfs of execution and 	09 March 2023	https://www.edx.org/course/human-computer-interaction-i-fundamentals-design-p

			<p>evaluation.</p> <ul style="list-style-type: none"> • The notion of directness in interaction, and the role of direct manipulation. • The strengths and limitations of the human user, including sensation and memory. 		
ICT	43	Human-Computer Interaction II: Cognition, Context & Culture	<ul style="list-style-type: none"> • The role of mental models in guiding human interaction with user interfaces. • The role of representations in informing the development of accurate mental models. • The sorts of errors, slips, and mistakes humans are prone to and how to address them. • Learned helplessness, and how to avoid it. • Methods for decomposing human interaction into manipulable chunks. • GOMS models for articulating user interaction with a system. • Hierarchical task analysis for understanding assumptions about human knowledge and ability. • Distributed cognition for designing larger systems comprised of humans and interfaces. • Situated action for investigating and anticipating human behavior in context. • An understanding of how society affects the designs we create. • A view of how design can be used to address societal problems. 	09 March 2023	https://www.edx.org/course/human-computer-interaction-ii-cognition-context-cu
	44	Human-Computer Interaction III: Ethics, Needfinding & Prototyping	<ul style="list-style-type: none"> • The structure of the design life cycle: needfinding, brainstorming, prototyping, and evaluation. • The value of research ethics and the importance of emphasizing the user's rights. • The role of Institutional Review Boards in governing university research. • The importance of ethics in industry and the mechanisms for ensuring they are maintained. • The importance of needfinding in the design life cycle. • Mechanisms for active needfinding, including surveys, interviews, and focus groups. • Approaches to personal needfinding, including participant observation and apprenticeship. • Ways to observe organic interaction, such as naturalistic observation or investigation of hacks and workarounds. • The data inventory, a structure for ensuring you understand your user and their problems. • Approaches to brainstorming design ideas, both individually and in groups. • Methods for further exploring design ideas, such as user personas and storyboards. • The spectrum of prototyping, from low-fidelity to high-fidelity. • The importance of low-fidelity prototypes in getting early feedback. 	09 March 2023	https://www.edx.org/course/human-computer-interaction-iii-ethics-needfinding

		<ul style="list-style-type: none"> Approaches to low-fidelity prototyping, such as paper prototypes and Wizard of Oz. Multi-level prototyping, or prototyping at various levels of abstraction. 			
ICT	45	Human-Computer Interaction IV: Evaluation, Agile Methods & Beyond	<ul style="list-style-type: none"> Methods for qualitative evaluation, including think-aloud studies and post-hoc interviews. Methods for empirical evaluation, including hypothesis testing and experimental design. Methods for heuristic evaluation, such as cognitive walkthroughs and task analysis. The symbiosis between HCI and Agile development cycles. The current state of HCI technologies such as extended reality, mobile devices, and robotics. The current state of HCI in domains like education, healthcare, and cybersecurity. The significant sub-schools of HCI such as social computing, computer-supported collaborative work, and information visualization. What you can expect to do next in HCI. 	09 March 2023	https://www.edx.org/course/human-computer-interaction-iv-evaluation-agile-met
	46	Finding Your Cybersecurity Career Path	<ul style="list-style-type: none"> Understand a multitude of cybersecurity career path opportunities Apply problem-solving skills toward self-evaluation of compatibility with career pathways Narrow your exploration to the most compatible job path(s) in cybersecurity Assess knowledge, skills, and abilities in relation to the specific (and emerging) requirements for those paths Discover and identify training and other next steps needed to satisfy requirements and meet goals in cybersecurity pathways 	09 March 2023	https://www.edx.org/course/finding-your-cybersecurity-career-path
	47	Full Stack Application Development Project	<ul style="list-style-type: none"> Articulate the attributes of multiple cloud services including Watson AI, Cloudant and Cloud Object Storage. Sharpen your skillset using javascript, React.js, Python, Node.js, Express and more. Build a real-world web application using front end and back end technology. Deploy your Django full stack web application on the cloud. 	09 March 2023	https://www.edx.org/course/full-stack-application-development-project
	48	Introduction to Data Analytics for Managers	<ul style="list-style-type: none"> The many different data science techniques and their applicability in business via case studies Handling of data analytics with a graphical development environment, which makes advanced tools easily accessible without coding How to conduct and interpret some basic data science activities, including: A simple scatter plot, to visually assess relationships between two or more quantities; A basic SQL query, to understand how to pull data from multiple interrelated sources; A basic hypothesis test, to understand 	09 March 2023	https://www.edx.org/course/introduction-to-data-analytics-for-managers

			<ul style="list-style-type: none"> statistical significance and its impact; A basic machine learning experiment, to understand what machine learning is and how to interpret its output. 		
OER	49	Creating open educational resources	<ul style="list-style-type: none"> State personal motivation for producing and using oers Evaluate some examples of educational resources for active open learning Plan a structured learning experience using a range of resources Produce, release and use OER Understand how to evaluate teaching resources. 	None indicated, self-paced study	https://www.open.edu/openlearn/education-development/creating-open-educational-resources/content-section-0?active-tab=description-tab
	50	An introduction to Open Educational Resources (OER)	<ul style="list-style-type: none"> Understand and have a better knowledge of some of the choices that practitioners make about ways of applying technologies for a variety of learners across the globe in education, training or professional development Understand and have a better knowledge of the potential and actual advantages of open educational resources, and how these might benefit learners in a wide range of contexts. 	None indicated, self-paced study	https://www.open.edu/openlearn/education-development/an-introduction-open-educational-resources-oer/content-section-0?active-tab=description-tab
	51	Open education	<ul style="list-style-type: none"> Understand the issues in open education Critically appraise the evidence around open education Experience what it is like to participate in an open course. 	None indicated, self-paced study	https://www.open.edu/openlearn/education-development/open-education/content-section-0?active-tab=description-tab
	52	Designing with Open Educational Resources (OER) (edX)	<ul style="list-style-type: none"> Describe benefits and concerns of Open Education Define OER Explain the benefits and drawbacks of OER Describe the role Creative Commons licensing plays in growth of OER Describe UDL principles and accessibility concerns when using OER Locate and evaluate OER for a specific instructional purpose Remix or revise an existing OER Design, develop and publish OER in variety of formats: text, image, video 		https://www.edx.org/course/designing-with-open-educational-resources-oer?irclid=XzYzYvzLoxylUgg3y0R%3AYzP4UkARzsVQJQfxT40&utm_source=affiliate&utm_medium=CtoNet%20-%20Tecnologias%20de%20Informa%C3%A7%C3%A3o%2C%20Unipessoal%20Lda&utm_campaign=Online%20Tracking%20Link_&utm_content=ONLINE_TRACKING_LINK&irgwc=1
HEALTHCARE AND WELLBEING	53	Design in Healthcare: Using Patient Journey Mapping	<ul style="list-style-type: none"> The Patient Journey Mapping method Understand the different stages of a patient's experience and treatment journey When and where Patient Journey Mapping can be applied How to identify opportunities from a patient's journey Healthcare trends 	09 March 2023	https://www.edx.org/course/design-in-healthcare-using-patient-journey-mapping
	54	The Foundations of Happiness at Work	<ul style="list-style-type: none"> The personal, social, and professional advantages of happiness at work How to identify barriers and pitfalls to achieving happiness at work A series of research-backed, practical ways to boost happiness at work Strategies for evaluating levels of happiness within an organization 	08 March 2023	https://www.edx.org/course/the-foundations-of-happiness-at-work
	55	Empathy and Emotional Intelligence at Work	<ul style="list-style-type: none"> Discover the psychological and biological roots of empathy, trust, and cooperation Understand how the skills of emotional and social intelligence support organizational happiness and 	09 March 2023	https://www.edx.org/course/empathy-and-emotional-intelligence-at-work

		<ul style="list-style-type: none"> productivity Develop research-based strategies for strengthening empathy and resolving conflicts constructively Learn how to lead with social intelligence 		
56	Mindfulness and Resilience to Stress at Work	<ul style="list-style-type: none"> How stress can impair our performance and well-being at work, and harm organizations The differences between healthy and toxic stress, and how to leverage healthy stress for success The benefits of mindfulness for helping you build resilience to stress, as well as innovation and team spirit at work Research-based strategies for cultivating mindfulness within yourself and your organization 	09 March 2023	https://www.edx.org/course/mindfulness-and-resilience-to-stress-at-work
57	'Talk to me': Improving mental health and suicide prevention in young adults	<ul style="list-style-type: none"> What mental health is, and the impact of stress on mental health Identify and explain contributing factors to suicide and poor mental health Strategies to increase mental fitness Understand why self-harm may be used as a coping strategy Recognise risk factors for mental health crisis and suicidality Understand the types of questions you can ask a person who may be at risk of suicide 	09 March 2023	https://www.edx.org/course/talk-to-me-improving-mental-health
58	Mental Health and Nutrition	<ul style="list-style-type: none"> Rates of mental illness have been on the rise over the last 50 years, despite advances in medication and other therapies. Scientists have been discovering that what we eat is affecting our mental health. Completing this course will help you to: <ul style="list-style-type: none"> Understand how our food supply has changed Recognise the components of food that are relevant to mental health Discover dietary patterns that maximize nutrient density Connect dietary choices to mental health Examine dietary advice and what is relevant to better mental health outcomes Implement simple ways to improve your diet Identify individual and environmental factors that influence the supply of nutrients to the brain Explore the recent paradigm shift of using broad spectrum micronutrients to address mental health challenges Understand when additional nutrients may be necessary to alleviate mental health suffering 	09 March 2023	https://www.edx.org/course/mental-health-and-nutrition
59	An Evidence-Based Approach to the Diagnosis and Management of Migraines in Adults in the Primary Care and General Neurology Setting	<ul style="list-style-type: none"> Migraine diagnosis concepts Migraine management Treatment approaches, including pharmacologic and nonpharmacologic strategies 	09 March 2023	https://www.edx.org/course/diagnosis-and-management-of-migraines-in-adults

HEALTHCARE AND WELLBEING	60	The Psychology of Emotions: An Introduction to Embodied Cognition	<ul style="list-style-type: none"> Discuss nature v nurture, the relationship between the mind and the brain and the role of automatic vs controlled processes in shaping human behavior. How we study emotions: Emotional processing and social cognition research methods We are what we feel: The foundations of the theories of embodied cognition How our understanding of other's emotions is an interpretation of emotional signals Develop a critical approach to the literature and research questions of the field. 	09 March 2023	https://www.edx.org/course/introduction-to-emotional-and-social-embodied-cognition
	61	Exploring anxiety	<ul style="list-style-type: none"> Understand anxiety from biopsychosocial perspectives Discuss contemporary issues in mental health science related to anxiety Recognise different lines of evidence and appreciate the uncertainty, ambiguity and limits of current knowledge in the study of mental health science. 	None indicated, self-paced study	https://www.open.edu/openlearn/science-maths-technology/exploring-anxiety/content-section-0?active-tab=description-tab
	62	Making sense of ourselves	<ul style="list-style-type: none"> Explain some of the key aspects of prejudice and how and why they are important Describe basic elements in the study of the psychology of personal relationships such as love and friendship Understand how visual illusions are used to explore the visual system and how psychologists research vision Understand the role of theory of mind in researching child development. 	None indicated, self-paced study	https://www.open.edu/openlearn/health-sports-psychology/making-sense-ourselves/content-section-0?active-tab=description-tab
NATURAL RESOURCES	63	The health effects of climate change	<ul style="list-style-type: none"> Climate change's impacts on nutrition, migration, and infectious diseases The research methods used in this field Strategies to mitigate and adapt to the health impacts of climate change How changes in Earth's atmosphere affect health outcomes How to assess the various ways of addressing the health effects of global warming 	08 March 2023	https://www.edx.org/course/the-health-effects-of-climate-change
	64	Climate Change Education	<ul style="list-style-type: none"> Basic science behind climate change Main social and ethical issues behind climate change Main consequences of climate change to water, energy, environment, soil and our health What we can do individually, as a school and as a community to live a more sustainable and healthy life How to use games, debates, experiments, theater, newspapers and other tools to support and enhance learning 	08 March 2023	https://www.edx.org/course/climate-change-education
	65	Drainage in Agriculture: controlling water and salt levels in the soil	<ul style="list-style-type: none"> Understand the concept of drainage and its role in agricultural water management Explain physical and agro-hydrological principles underlying drainage of agricultural land Make water and salt balances to calculate drainage needs Formulate drainage criteria Make sound estimates for drainage 	09 March 2023	https://www.edx.org/course/drainage-in-agriculture-controlling-water-and-sa-2

		<p>parameters needed to design drainage systems</p> <ul style="list-style-type: none"> • Understand differences between steady-state and unsteady-state drainage approaches • Understand the need for more control in agricultural drainage management • Design drainage system that enable more operational control 			
	66	Natural Resources for Sustainable Development	<ul style="list-style-type: none"> • How countries translate natural resource wealth into sustainable development outcomes • How governance of extractive industries impact long term economic development • The policies necessary for the sustainable management of natural resource wealth • Why communication between government, industry, and citizens critical to sustainable natural resource management 	08 March 2023	https://www.edx.org/course/natural-resources-for-sustainable-development
NATURAL RESOURCES	67	Understanding Agribusiness, Value Chains, and Consumers in Global Food Systems	<ul style="list-style-type: none"> • How to recognize the characteristics of Global Food Systems • The multiple variables impacting Global Food Systems • How to identify value chain thinking and how it differs from supply chain thinking • The characteristics of agri-food markets, what influences their supply and demand, and what sets them apart from other markets • The role played by external factors such as population and income growth, globalization, climate change, technology, and international trade in global food systems, agribusiness and value chains • How to recognize the role the consumer plays in the food system, markets, and value chains 	09 March 2023	https://www.edx.org/course/understanding-agribusiness-value-chains-and-consumers-in-global-food-systems
	68	Climate justice for the next generation	<ul style="list-style-type: none"> • Understand the importance of the United Nations Convention on the Rights of the Child (UNCRC) • Recognise the links between children's rights and climate justice • Understand the impacts of climate change on children and young people and recognise the reasons why they are at the forefront of climate change campaigns • Appreciate the relationship between children and the environment • Understand the idea of 'plastic childhoods' and look at the ways that plastics are entangled in children's lives. 	None indicated, self-paced study	https://www.open.edu/openlearn/education-development/climate-justice-the-next-generation/content-section-0?active-tab=description-tab
LEADERSHIP AND PEOPLE SKILLS	69	Designing Your Career	<ul style="list-style-type: none"> • How to break into a new field of interest • New ways to understand and approach networking • A new angle on pursuing professional opportunities • Ideas on how to develop genuine professional connections 	09 March 2023	https://www.edx.org/course/designing-your-career
	70	Get Beyond Work-Life Balance (Inclusive Leadership Training)	<ul style="list-style-type: none"> • How to support flexible work environments and better work-life integration. • Inclusive leadership behaviors that make you a more successful leader. • How to identify barriers to work-life effectiveness and 	09 March 2023	https://www.edx.org/course/get-beyond-work-life-balance-inclusive-leadership

			create solutions.		
LEADERSHIP AND PEOPLE SKILLS	71	Leadership focused on Human Flourishing	<ul style="list-style-type: none"> Identify opportunities for personal improvement within the five elements of the Leadership Focused on Human Flourishing model. Develop the skills that will allow you to achieve and optimize results at work. Understand the relationship between happiness, leadership, and flourishing. 	09 March 2023	https://www.edx.org/course/leadership-focused-on-human-flourishing
	72	Happier Employees and Return-On-Investment Course	<ul style="list-style-type: none"> Why does happiness at work matter? What are the 5 most important determinants of happiness at work? Basic needs <ul style="list-style-type: none"> li. Autonomy lii. Mastery lv. Belonging, and v. Abundance culture What is holding you back from feeling happy and fulfilled at work? <ul style="list-style-type: none"> You'll discover the answer to this question: Which of the five major determinants am I most lacking at work? What can you do to enhance your own happiness at work? <ul style="list-style-type: none"> You will also get to discover ways in which you can improve your happiness at work What can you do to enhance happiness of your coworkers? Finally, you will learn about some creative, simple and effective ways by which you can improve happiness of your coworkers. 	09 March 2023	https://www.edx.org/course/happier-employees-and-return-on-investment-course
	73	Becoming an Effective Leader	<ul style="list-style-type: none"> What leadership means and how have we come to identify what it comprises. Leadership styles and the theories behind them. The relationship between power and leadership and how to influence others. The role of ethics and values in leadership. How to become a credible leader and business steward. The importance of followership for leader outcomes. 	09 March 2023	https://www.edx.org/course/becoming-an-effective-leader
LEADERSHIP AND PEOPLE SKILLS	74	The Language of Leaders: Learn to Write with Confidence	<ul style="list-style-type: none"> The importance of writing as a leader What are the elements of good writing How to present your ideas, views or messages effectively The common mistakes we make when we write and how to avoid them 	09 March 2023	https://www.edx.org/course/the-language-of-leaders-learn-to-write-with-confidence
	75	Let's Get Personal: Working with Personality Type	<ul style="list-style-type: none"> What is personality type Why does it matter at work Structure of personality type Limitations of personality type Demographics of personality type: age, gender, careers, professions, etc. How to apply personality type Problem-solving Communications & conflict Stress management Learning Energy management Building teams Group type Career choice Mental model for type diversity in the workplace 	09 March 2023	https://www.edx.org/course/lets-get-personal-working-with-personality-type

LEADERSHIP AND PEOPLE SKILLS	76	People Management	<ul style="list-style-type: none"> Gain an overview of what it means to be an effective people manager Have a deeper understanding of the different aspects of people management Be able to appreciate the challenges faced by a first time manager Reflect on your managerial experiences 	09 March 2023	https://www.edx.org/course/people-management
	77	Developing high trust work relationships	<ul style="list-style-type: none"> Understand the broad roles of trust in modern economics Explain the changes in organisational dynamics that have led to a focus on trust within organisations Understand and discuss the consequences of trust within organisations. 	None indicated, self-paced study	https://www.open.edu/openlearn/money-business/leadership-management/developing-high-trust-work-relationships/content-section-0?active-tab=description-tab
	78	Understanding management: I'm managing thank you!	<ul style="list-style-type: none"> Understand some of the key processes in management decision making and how they are performed Understand some of the interpersonal skills and aspects of management Apply some of these ideas to the management of our own work Write for academic study purposes. 	None indicated, self-paced study	https://www.open.edu/openlearn/money-business/leadership-management/understanding-management-im-managing-thank-you/content-section-0?active-tab=description-tab
	79	Working in diverse teams	<ul style="list-style-type: none"> Understand why employers value working in teams as a key employability skill Identify different team roles and articulate experiences of working in teams to employers with more confidence Identify different stages of team development and understand why this helps team performance Understand the benefits of increased team diversity and some of the issues this brings to team performance Consider how a virtual team differs from other teams and the challenges of working in virtual teams 	None indicated, self-paced study	https://www.open.edu/openlearn/money-business/working-diverse-teams/content-section-overview?active-tab=description-tab
	80	Public Speaking	<ul style="list-style-type: none"> How to apply the basic elements of the speech communication process Tools and methods for controlling public speaking anxiety How to craft a clear and impactful speech How to critique other communicators using the principles of this course How to identify main and supporting ideas 	09 March 2023	https://www.edx.org/course/public-speaking-2
SOFT SKILLS	81	Attending a Networking Event	<ul style="list-style-type: none"> Create and deliver an "elevator pitch" Find a networking event you would like to attend Make small talk Prepare for and attend a networking event Add at least one new person to your network 	09 March 2023	https://www.edx.org/course/attending-a-networking-event
	82	Professional Business Presentations	<ul style="list-style-type: none"> Evaluate the organizational steps of a presentation Examine various supporting materials for presentations Evaluate and discuss various presentation software Examine design principles for presentations Discuss storytelling for presentations Develop a presentation Present via video a polished presentation 	09 March 2023	https://www.edx.org/course/professional-business-presentations
	83	A brief history of communication: hieroglyphics to emojis	<ul style="list-style-type: none"> Understand how different writing systems have developed over time Understand how technology influences what we can do with language, and the form that language takes. 	None indicated, self-paced study	https://www.open.edu/openlearn/languages/a-brief-history-communication-hieroglyphics-

OTHER					emojis/content-section-0?active-tab=description-tab
	84	Talk the talk	<ul style="list-style-type: none"> • Understand the key elements of a good presentation • Experiment with ways to start and end a presentation that make an impact • Link ideas in the main part of a presentation that capture the audience's attention • Consider issues such as body language, voice projection and intercultural differences in approaches to oral presentations • Create and use a checklist for effective presentations. 	None indicated, self-paced study	https://www.open.edu/openlearn/education-development/talk-the-talk/content-section-overview?active-tab=description-tab
	85	Managing my money	<ul style="list-style-type: none"> • Understand how to undertake financial planning, including drawing up a budget and a household balance sheet • Apply a systematic approach to making key financial decisions • Understand loans, mortgages and other debt products and their costs • Understand the main categories of personal investments, their characteristics and the returns they provide to investors • Understand pension products and how to undertake pension planning • Understand insurance products and how they are priced. 	None indicated, self-paced study	https://www.open.edu/openlearn/money-business/managing-my-money/content-section-overview?active-tab=description-tab
	86	Innovation in policing	<ul style="list-style-type: none"> • Outline various ways in which innovation can be understood and how it differs from other, related concepts such as creativity • Discuss key forms of innovation in policing • Outline key methods and frameworks for innovation • Discuss ways in which organisations can become more innovative • Outline the role of leaders and leadership in supporting greater innovation. 	None indicated, self-paced study	https://www.open.edu/openlearn/society-politics-law/criminology/innovation-policing/content-section-0?active-tab=description-tab

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