



CENTRE FOR INNOVATION IN LEARNING AND TECHNOLOGY (CILT)

Massive Open Online Courses (MOOCs) for Academic Staff

The Centre for Innovation in Learning and Teaching (CILT) is responsible for delivering Continuous Professional Development (CPD) interventions to all academic staff members. These interventions may take various forms, including workshops, seminars, short courses, and Academic Development Workshops (ADWs). In support of CILT's mandate to build CPD capacity, a curated list of Massive Open Online Courses (MOOCs) has been compiled, which may be of benefit to academic staff. The themes for the listed MOOCs are derived from the Open Educational Resources (OER) Africa CPD Frameworks for Academics, organised around eleven (11) key domains.

Professional development is a multi-faceted pursuit that goes beyond teaching to actively include research, leadership, quality assurance, community partnerships and scholarly contributions.

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

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	NO	MOOC Title	Overview of the MOOC	MOOC Information Link
	Domain 1: Course Design Developing and structuring academic programmes and modules effectively.			
	1.	Designing a Course With edX	This course guides educators through designing, building, and running courses on edX. After completing this course, you will be able to: • Define design principles of effective learning experiences. • Identify the characteristics of a well-designed and accessible edX course. • Identify specific intended learning audiences and their goals. • Develop a thoughtful, strategic, and cohesive course strategy and marketing plan that meets the needs of the intended course audience.	https://www.edx.org/learn/design/edx-designing-a-course-with-edx
	2.	e-Learning Ecologies: Innovative Approaches to Teaching and Learning for the Digital Age	This course is designed for people interested in the future of education and learning society. After completing this course, you will be able to: • Explore innovative approaches to teaching and learning for the digital age. • Understand how to leverage digital tools to create new learning ecologies. • Design for practicing teachers interested in exploring future directions for education.	https://www.coursera.org/learn/elearning
	3.	21st Century Learning	This course will introduce you to 21st century learning tools and practices. You will examine how they can facilitate learning and teaching, and evaluate your own digital literacies, create your own personal learning environment, find open educational resources, explore virtual worlds and more. After completing this course, you will be able to: • Describe current learning technologies, resources and practices. • Analyse your own learning practices. • Incorporate new practices into your own teaching.	https://platform.europeanmoocs.eu/course_21st_century_learning
	4.	Instructional Design Foundations and Applications	This course introduces you to the conceptual and theoretical foundations of instructional design as well as the analysis aspect of instructional systems design. After completing this course, you will be able to: • Describe the major concepts of instructional systems design. • Describe the major learning and instructional theories. • Describe the process of instructional design and instructional design models. • Describe various analysis activities for instructional design.	https://www.coursera.org/learn/instructional-design-foundations
	5.	An introduction to Open Educational Resources (OER)	This course will help you to write a learning course and provide you with links to various resources for open-learning materials. After completing this course, you will be able to: • 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.	https://www.open.edu/openlearning/education-development/creating-open-educational-resources/content-section-0

Domain 2: Materials Development Creating teaching and learning resources that support student engagement.			
6.	Powerful Tools for Teaching and Learning: Digital Storytelling	This course introduces educators to digital storytelling and explores ways to use digital stories to enhance students' learning experiences. After completing this course, you will be able to: • Use WeVideo. • Create digital stories that could be shared both online and with students in the classroom.	https://www.coursera.org/learn/digital-storytelling
7.	Introduction to Cloud Development with HTML5, CSS3, and JavaScript	This course focuses on key tools and programming languages to bootstrap your career as a Cloud Developer. After completing this course, you will be able to: • 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.	https://www.edx.org/course/introduction-to-cloud-development-with-html5-css3-and-javascript
8.	Open Education	This course explores the philosophy, tools, and practices of making education freely accessible and adaptable for everyone. After completing this course, you will be able to: • Understand the issues in open education. • Appraise the evidence around open education.	https://www.open.edu/openlearn/education-development/open-education/content-section-0
9.	How to Learn Online	This course includes enhancements to address learning online with the advancements of AI tools. After completing this course, you be able to: • Apply self-care techniques that will help you maintain a healthy mind for effective online learning. • Manage time with the help of some common technology. • Apply key learning strategies backed by research from edx partners. • Build strong connections with fellow learners and your instructors.	https://www.edx.org/course/how-to-learn-online

Domain 3: Facilitating Learning Applying effective teaching strategies to enhance student learning experiences.			
10.	Inclusive Teaching: Supporting all Students in the College Classroom	This course explores the principles of inclusive teaching and how to apply them in your classroom to support diverse learners. After completing this course, you will be able to: • Develop an awareness of critical self-reflection. • Define key components that impact inclusive classrooms. • Apply inclusive teaching strategies in individual teaching contexts.	https://www.edx.org/course/inclusive-teaching-supporting-all-students-in-the
11.	Assistive Technologies and Online Learning	This course looks at the tools and techniques that make it possible for disabled students to engage with online learning. After completing this course, you will be able to: • Understand what is meant by assistive technology. • Recognise different forms of assistive technology. • Understand some students' experiences of using assistive technology.	https://www.open.edu/openlearn/education-development/assistive-technologies-and-online-learning/content-section-0
12.	Teaching Reluctant Writers	This course focuses on the reasons why student writers may be reluctant. It provides a variety of strategies and practices to help reluctant writers develop greater comfort and confidence with writing. After completing this course, you will be able to: • Understand the challenges faced by reluctant writers. • Develop strategies to engage and support students who struggle with writing. • Create a classroom environment that fosters writing confidence.	https://www.coursera.org/learn/teaching-reluctant-writers
13.	Teaching for Learning: Strategies for Effective Instruction	This course examines the pitfalls beginning teachers run into and how to overcome them by focusing on the fundamentals that have the greatest impact on student learning in a blended or online environment. After completing this course, you will be able to: • Identify the role of direct instruction within a virtual course. • Use instructional strategies that motivate and challenge your students to think more critically. • Define at-risk students and examine effective strategies for teaching this demographic. • Build an inclusive and thriving online community with students, parents, and other teaching professionals.	https://www.coursera.org/learn/teaching-strategies
14.	University Teaching	This course focuses on multiple examples of effective teaching. After completing this course, you will be able to: • Discuss the teaching and learning context in higher education and reflect on the potential challenges and opportunities you might encounter. • Explain key teaching and learning concepts and relevant evidence in relation to effective university teaching.	https://www.coursera.org/learn/university-teaching

Domain 4: Effective Assessment and Feedback

Designing fair assessments and providing constructive feedback to students.

15.	How You Say It Matters: A Toolkit for Improving Communications About Academic Standing	This course will walk you through the psychology and evidence behind this approach, how to write a psychologically attuned letter, how to get feedback on your letter from students and colleagues, and how to implement and evaluate your letter. After completing this course, you will be able to: • Understand how shame and stigma can interfere with academic progress. • Write “psychologically attuned communications. • Collect feedback to better understand students' experiences. • Apply principles to other academic communications.	https://www.edx.org/learn/education/stanford-university-how-you-say-it-matters-a-toolkit-for-improving-communications-about-academic-standing
16.	All my own work: Exploring Academic Integrity	This course is designed to help you build confidence in producing your own work for academic purposes. You will explore what plagiarism is and how to avoid it and learn how and when to reference. The course also includes an interactive to work through, which will help you to identify the potential temptations and challenges you may face when working on assignments. After completing this course, you will be able to: • Understand what is meant by plagiarism. • Recognise in-text citation and full reference. • Differentiate collaboration from collusion. • Demonstrate techniques to avoid plagiarism.	https://www.open.edu/openlearn/education-development/all-my-own-work-exploring-academic-integrity/content-section-overview
17.	Assessment in Higher Education: Professional Development for Teachers	This course will guide you through the different phases of preparing, creating and evaluating the assessments in your course. After completing this course, you will be able to: • Design an assessment that is constructively aligned (content, level, methods) with the course objectives and activities. • Apply the quality criteria with respect to validity, reliability and transparency for construction of assessments and assessment items. • Analyse the assessment output and results, assess the quality of the assessment and make decisions about students' grades accordingly. • Formulate future improvements for an assessment.	https://www.coursera.org/learn/assessment-higher-education

Domain 5: Leadership and Management in HE Strengthening leadership, administration and institutional management skills.			
18.	Leading for Equity, Diversity and Inclusion in Higher Education	This course is open to professionals interested in learning more about leadership in higher education for a changing demographic or interested in developing their own leadership skills. After completing this course, you will be able to: • Understand the historical narrative of institutions as well as institutional structures that have created instances of inclusion and exclusion in colleges and universities. • Describe how transformational leadership is enacted for diversity, equity, and inclusion in a complex and contested environment. • Compare legislative, governance, and public accountability and expectations in relation to contemporary issues in higher education. • Analyse the strategic diversity planning process and documents of a selected institution.	https://www.coursera.org/learn/leading-for-equity-diversity-inclusion
19.	Leadership focused on Human Flourishing	The course describes the elements of the Leadership model oriented towards human flourishing, in order to develop leaders who achieve better results. After completing this course, you will be able to: • Understand the leadership crisis in a volatile, uncertain, complex, and ambiguous world. • Develop self-aware leaders committed to a positive vision. • Acquire tools for human-flourishing-oriented leadership.	https://www.edx.org/course/leadership-focused-on-human-flourishing
20.	People Management	The course will provide you with an enhanced understanding of the role of people management in organisational context. After completing this course, you will be able to: • Smoothen the transition from individual contributor to people manager. • Learn how to give effective feedback, conduct assessments, and motivate employees.	https://www.edx.org/course/people-management
21.	Get Beyond Work-Life Balance (Inclusive Leadership Training)	Through this course, you will learn strategies for managing workplace flexibility, and learn how you have the power as an individual, a team member, or a leader to make positive change. After completing this course, you will be able to: • Understand the value of a flexible work environment. • Learn strategies for managing workplace flexibility. • Develop a Personal Work-Life Plan to manage work and life responsibilities.	https://www.edx.org/course/get-beyond-work-life-balance-inclusive-leadership
22.	Developing High Trust Work Relationships	This course introduces the concept of trust, what it means to you and how it may affect your organisation. After completing this course, you will be able to: • Understand the broad roles of trust in modern economics. • Explain changes in organisational dynamics that have led to a focus on trust.	https://www.open.edu/openlearn/money-business/leadership-management/developing-high-trust-work-relationships/content-section-0

Domain 6: Learning Analytics Using data and evidence to improve teaching, learning, and student success.			
23.	Introduction to Data Analytics for Managers	This course provides an introduction to data analytics techniques and their application in business. After completing this course, you will be able to: • Understand data science techniques and their applicability via case studies. • Conduct and interpret basic activities (scatter plots, SQL, hypothesis tests, machine learning) without coding.	https://www.edx.org/course/introduction-to-data-analytics-for-managers
24.	Problem Solving and Critical Thinking Skills	This course is designed to prepare you to succeed in the modern workplace. After completing this course, you will be able to: • Frame problems using a systematic, repeatable process. • Develop and test solutions using the 80/20 rule. • Use design thinking to generate ideas. • Plan primary/secondary research. • Design effective surveys.	https://www.edx.org/course/problem-solving-and-critical-thinking-skills-2
25.	Practical Learning Analytics	This course offers a flexible, collaborative introduction to learning analytics in higher education. You'll learn by doing, using realistic data and code. After completing this course, you will be able to: • Understand the landscape of learning analytics in higher education. • Carry out performance prediction in a course: up to and including grade penalties, placement analyses, performance disparities and their correlates, course-to-course correlation. • Create early warning systems and personalised communication. • Apply learning analytics to observe differences and probe impact, capturing more and better information.	https://www.edx.org/course/practical-learning-analytics
26.	Design Thinking Fundamentals	This course focuses on building creative confidence and design solutions based strictly on the needs of the end-user. After completing this course, you will be able to: • 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.	https://www.edx.org/course/design-thinking-fundamentals

Domain 7: Curriculum Quality Assurance

Ensuring academic programmes meet institutional and national standards.

27.	Quality Improvement and Management	This course teaches you how to systematically analyse, optimise, and streamline organisational processes to increase efficiency, eliminate waste, and boost customer or patient satisfaction. After completing this course, you will be able to: • Understand the purpose and necessity of quality improvement in organizational contexts, discerning key principles underlying quality enhancement. • Evaluate the benefits of ISO registration and comprehend the requirements of ISO 9001 implementation, applying Bloom's Taxonomy. • Translate customer needs into actionable requirements, utilizing Bloom's Taxonomy to facilitate effective implementation.	https://www.coursera.org/learn/quality-improvement-and-management
28.	Reporting and Quality Assurance	This course teaches you how to systematically monitor processes, evaluate performance, and create data-driven reports. After completing this course, you will be able to: • Build a Power BI dashboard that integrates Asana project data and financial metrics to track quality, velocity, and delivery performance. • Create a corrective action plan with assigned owners, milestones, and success metrics to drive measurable quality improvement across a sprint cycle.	https://www.coursera.org/learn/reporting-quality-assurance
29.	TQM Excellence: Lean Six Sigma and Quality Systems Specialisation	This course focuses on how to master Total Quality Management (TQM), Lean, and Six Sigma methodologies to reduce errors, optimise processes, and lead continuous improvement initiative. After completing this course, you will be able to: • Apply TQM, Lean, and Six Sigma frameworks to design and improve quality systems. • Use statistical tools, SPC charts, and defect management techniques to solve real problems. • Lead organisational change by integrating customer-focused strategies and continuous improvement.	https://www.coursera.org/specializations/tqm-excellence-lean-six-sigma-quality-systems?trk_location=query-summary-list-link
30.	Quality Assurance (QA) - Techniques and Methodologies	This course focuses on building job-ready skills in software reliability through both manual and automated testing methods. After completing this course, you will be able to: • Analyse the different approaches and industrial aspects used in QA and QC processes. • Identify the major industrial uses of quality management • Evaluate the importance of customer involvement in QA. • Discuss the roles of QA and QC in software engineering and its related fields. • Recall the major certifications in quality management.	https://alison.com/course/quality-assurance-qa-techniques-and-methodologies

Domain 8: Research Promoting scholarly inquiry, publication and evidence-based practice.			
31.	Understanding different Research Perspectives	This course explores the development of the research process looking at the different perspectives from which an issue or phenomenon can be investigated; and highlights the main methodologies that can be used to investigate a business issue. After completing this course, you will be able to: • Explore the development of the research process from different perspectives. • Highlight main methodologies for investigating issues. • Understand research design, strategy and methodology.	https://www.open.edu/openlearn/money-business/understanding-different-research-perspectives/content-section-0
32.	Becoming an Ethical Researcher	This course explores the ethics of planning, carrying out and reporting research which involves human participants. After completing this course, you will be able to: • Explore the ethics of planning, carrying out and reporting research involving human participants. • Sensitise yourself to issues for ethical decision-making. • Analyse a variety of research scenarios.	https://www.open.edu/openlearn/education-development/becoming-ethical-researcher/content-section-overview
33.	Problem Solving and Critical Thinking Skills	This course will develop your ability to tackle complex problems in the workplace using known analytical problem-solving techniques, design thinking, and effective research. After completing this course, you will be able to: • Frame problems using a systematic, repeatable process. • Develop and test solutions using the 80/20 rule. • Identify user needs and develop solutions to meet them. • Use design thinking to generate ideas and discover creative solutions. • Plan and execute primary and secondary research.	https://www.edx.org/course/problem-solving-and-critical-thinking-skills-2
34.	Research Ethics: A Guide for Responsible Research with Human Subjects	This course focuses on navigating the moral, practical, and regulatory challenges of conducting research with human participants. After completing this course, you will be able to: • Understand why ethics is necessary in research. • Identify main ethical issues. • Assess risks and benefits. • Understand informed consent, vulnerable populations, privacy, and ethical misconduct.	https://www.edx.org/course/research-ethics-a-guide-for-responsible-research-with-human-subjects
35.	Reproducible Research	This course focuses on the concepts and tools behind reporting modern data analyses in a reproducible manner. After completing this course, you will be able to: • Organise data analysis to make it more reproducible. • Determine reproducibility of an analysis project.	https://www.coursera.org/learn/reproducible-research

Domain 9: Outreach Engaging with communities and stakeholders beyond the institution.			
36.	Community Engagement in Research and Population Health	This course focuses on strategies for collaborating with local communities to reduce health disparities, improve care, and promote health equity. After completing this course, you will be able to: • Go beyond health care delivery. • Understand population health data, evidence and research. • Apply effective community engagement strategies.	https://www.coursera.org/learn/community-engagement-research-population-health
37.	Creating Meaningful and Inclusive Museum Practices	This course is designed to help heritage and museum professionals transform institutions into vibrant spaces of social inclusion. After completing this course, you will be able to: • Reflect on positionality and sense of belonging. • Analyse institutional structures for collaborative work. • Explain Inclusive Design methodology. • Apply participatory methodologies to your context.	https://www.futurelearn.com/courses/meaningful-inclusive-museum-practices
38.	Campus Engage – Community Engaged Learning	The course is built around a series of video tutorials, solo and group activities, a selection of academic and grey reading material, and online case studies with community partners, students and academics. After completing this course, you will be able to: • Discuss the concept of Community Engaged Learning (what it is and isn't). • Develop strategies for community partnerships. • Prepare a plan for a Community Engaged Learning experience. • Identify opportunities for Community Engaged Learning.	https://opencourses.ie/open-course/campus-engage-community-engaged-learning/
39.	Community Engagement: Collaborating for Change	This course is designed to be both engaging and challenging, offering an accessible entry into foundational topics as well as a jumping off point to pursue work and further learning in effective community engagement. After completing this course, you will be able to: • Understand how social identities, power, and privilege impact your interactions. • Apply approaches to collaborative leadership, such as listening effectively, resolving conflicts, and building mutually-beneficial partnerships. • Reflect on your work, and transitioning in and out of communities. • Effectively manage community-engaged projects.	https://www.my-mooc.com/en/mooc/community-engagement-collaborating-for-change-94465b73-7e9f-4c0f-aacc-bceb736c5f72
40.	Empowering communities	This course discusses the most common forms of community empowerment and explores the barriers to community empowerment and ways that these can be overcome. After completing this course, you will be able to: • Identify and develop local economic engines, manage projects, and access essential services. • Equipping vulnerable groups to handle systemic challenges.	https://www.classcentral.com/course/openlearn-money-business-leadership-management-empowering-communities-95875

Domain 10: Post-Graduate Supervision Supporting and mentoring postgraduate students effectively.			
41.	The Postdoc Academy: Succeeding as a Postdoc	This course is designed to build foundational professional and personal skills for early-career researchers. After completing this course, you will be able to: • Explore identities and roles that impact your work environment. • Apply career planning tools to create an actionable plan. • Build and sustain resilience. • Cultivate an inclusive research environment.	https://www.edx.org/course/the-postdoc-academy-succeeding-as-a-postdoc
42.	Becoming a Student Assistant: Teaching and Mentoring	This course focuses on equipping students with the essential pedagogical, professional, and practical skills needed to support fellow students and staff in higher education. After completing this course, you will be able to: • Contribute professionally in a higher education environment. • Identify basic principles for designing a course. • Teach small group sessions interactively. • Understand directive vs facilitative formative feedback.	https://www.futurelearn.com/courses/students-higher-education
43.	Get Beyond Work-Life Balance (Inclusive Leadership Training)	This course focuses on shifting from the concept of a strict work-life "balance" to holistic work-life integration. After completing this course, you will be able to: • Understand the value of a flexible work environment and see what sets successful flexible workers and managers apart. • Build your knowledge each section and share your experience with other learners on topics such as communication, technology, myth busting, challenges, and solutions. • Develop a Personal Work-Life Plan to help apply the strategies taught and effectively manage your own work and responsibilities or that of others.	https://www.edx.org/course/get-beyond-work-life-balance-inclusive-leadership
44.	Leadership focused on Human Flourishing	This course describes the elements of the leadership model oriented towards human flourishing, in order to develop leaders who achieve better results. After completing this course, you will be able to: • Identify personal improvement areas. • Manage emotional health. • Develop an optimistic growth mindset that helps to overcome obstacles. • Learn to make decisions that align with ethical values, actively caring for the well-being and development of those you manage.	https://www.edx.org/course/leadership-focused-on-human-flourishing

Domain 11: Subject Knowledge Maintaining expertise and up-to-date disciplinary knowledge.			
45.	Understanding ADHD	This course focuses on unpacking the science, symptoms, and lived experiences of Attention Deficit Hyperactivity Disorder (ADHD). After completing this course, you will be able to: • Define key terms in ADHD research. • Describe characteristics and diagnosis. • Describe risk factors and brain changes. • Outline key approaches to managing ADHD with scientific evidence.	https://www.open.edu/openlearn/health-sports-psychology/understanding-adhd/content-section-0
46.	Understanding Autism	This course focuses on developing foundational knowledge and practical skills to support autistic individuals. After completing this course, you will be able to: • Outline what is meant by autism and why it is a spectrum. • Appreciate different approaches (theoretical, clinical, personal). • Explain diagnosis, intervention, and neurodiversity perspectives.	https://www.open.edu/openlearn/science-maths-technology/understanding-autism/content-section-overview
47.	The Psychology of Emotions: An Introduction to Embodied Cognition	This course focuses on how our minds and bodies are fundamentally interconnected. After completing this course, you will be able to: • Discuss the relationship between mind and brain. • Understand how we study emotions using research methods. • Explore theories of embodied cognition. • Develop a critical approach to literature.	https://www.edx.org/course/introduction-to-emotional-and-social-embodied-cognition
48.	Introduction to Cyber Security: Stay Safe Online	This course focuses on building foundational knowledge to protect your digital life at home and work. After completing this course, you will be able to: • Protect your digital life. • Recognise online threats. • Reduce risk. • Understand malware, viruses, trojans, network security, cryptography, and identity theft.	https://www.open.edu/openlearn/science-maths-technology/introduction-cyber-security-stay-safe-online/content-section-overview
49.	Generative AI for University Leaders	This course is designed to equip higher education administrators with the frameworks to implement AI strategically across their institutions. After completing this course, you will be able to: • Explain fundamental concepts of generative AI and potential applications in university operations. • Assess strategic implications for higher education. • Develop a plan for integrating Gen AI into university settings.	https://www.coursera.org/learn/gen-ai-for-university-leaders