

AI IN THE CLASSROOM: STRATEGIES AND TOOLS FOR EDUCATORS

Sameen Asghar and Dr. Suleman Shahid

LUMSx is the center for online learning and professional development at LUMS. We extend LUMS' excellence in teaching and research beyond its borders by leveraging technology and innovative pedagogy. Our courses aim to bridge critical knowledge & skill gaps for Pakistani learners and to meet their diverse learning needs, we offer **Massive Open Online Courses (MOOCs)**, **Hybrid Courses**, **Synchronous (Live) Courses**, and **Free Open Online Courses (OpenCourseWare)**. We intend to harness technology for enhancing access, improving educational quality, and amplifying education's impact.



Course Format: Self-Paced

Language: English

Starting Date: 01 May 2024

Duration: 2 Weeks

Price for individual learners: PKR. 7,999

Hybrid-cohort price for organizations:
PKR. 14,999 (Group Discounts Available)

ABOUT THIS COURSE



This course is tailored to address the requirements of K-12 educators in Pakistan. Its primary objective is to familiarize teachers with generative AI, empowering them to leverage this technology to address teaching challenges and improve their existing methodologies. With a unique focus on Pakistan's educational landscape, this course provides tutorials and resources for educators to craft learning materials, lesson plans, and assessments. Distinguishing itself from other offerings in the country, this course stands out by providing specialized training on specific generative AI tools alongside commonly used ones.

Is this Course for You? If you want to learn how you can enhance your teaching and learning through Generative AI, this course is for you. Whether you are a seasoned K-12 Teacher, Educator or an Instructional Designer, this course will be a useful resource for you. It offers concrete use cases of generative AI inside and outside the classroom that anyone can use to revamp their teaching practices.

Skills you will gain: Teaching with generative AI, Culturally relevant teaching with generative AI, Learning with AI, Targeted feedback with AI, Lesson Planning with generative AI

WHAT WILL YOU LEARN

By the end of this course, learners will walk away with:

- Familiarity with the leading AI tools
- Understanding of AI jargon
- Practical applications of AI in your classroom
- Ability to use AI in multiple learning contexts
- Ethical implications of AI
- Personalized learning module powered by AI

MEET YOUR INSTRUCTOR



Course Instructor

Sameen Asghar

*MA. Instructional Technology & Media,
Teachers College, Columbia*

As an educator and instructional designer, Sameen has a keen focus on the intersection of education and cutting-edge technology. She did her master's degree in Instructional Technology and Media from Teachers College, Columbia University.

Sameen has cultivated expertise in harnessing advanced technological tools to optimize learning experiences. She has also been actively involved in projects investigating learning within informal environments, including adventure playgrounds, makerspaces, and toolkits for science education.

With experience as an instructional designer at the International Rescue Committee, New York City and instructional design lead at LUMSx, Sameen has spearheaded initiatives aimed at leveraging innovative educational technologies to enhance learning. Passionate about exploring the transformative potential of artificial intelligence in education, she is committed to reshaping the landscape of learning through the seamless integration of technology for the learners in Pakistan.

MEET YOUR INSTRUCTOR



Course Instructor

Dr. Suleman Shahid

Associate Professor, LUMS

Director, LUMSx

Suleman Shahid is an Associate Professor of Computer Science at the Lahore University of Management Sciences (LUMS) and the founding director of the LUMSx - Digital Learning Center at LUMS. At LUMS, he directs the 'Computer-Human Interaction for Inclusion, Wellbeing and Learning' (CHISEL) Lab, manages the university's Usability Lab and is the Faculty Lead for the Facebook Innovation Lab at LUMS, which is Facebook's first Innovation Lab in Pakistan. Suleman is also a part of the National Center on Big Data and Cloud Computing at LUMS. It leads its Open Data Pakistan initiative, a first-of-its-kind open data portal in Pakistan. Suleman is also a Senior Design and Strategy Consultant. He works with private and public sectors on design-driven innovation, people-centred change management, and digital transformation projects.

He is also the founder of the annual UX Pakistan design conference, the Lahore Design Festival, the UX Camps program and co-host of the Design Baithak podcast and meetups initiative. Suleman's primary area of interest is designing learning and healthcare technologies for/with the margins in the global south with an emphasis on using participatory and inclusive design to drive innovation. His research focuses on the intersection of design, technology, and inclusion with applications to (1) assistive technologies (mobile apps and VR/AR systems) to enhance the quality of life of persons with disabilities (e.g. autism, dyslexia, visual impairment, dementia), and persons with mental health conditions (e.g. anxiety, depression), and (2) learning and playful technologies for children.

COURSE OUTLINE



Demystifying Generative AI

In this module, you will learn about what generative AI is, and how it can play a pivotal role to enhance teaching in classrooms. You will also get to know two fundamental AI concepts and how to implement both efficiently.

Using generative AI to empower Educators

In this module, you'll get familiar with popular generative AI tools and a robust framework to use these tools efficiently. You'll also learn about multiple uses of generative AI in classrooms, especially for assessments and targeted feedback.

Ethics in AI: Using AI Responsibly

This module explores the ethical implications of AI in education. You will uncover limitations of generative AI tools and potential biases in their data. Lastly, you will learn frameworks for responsible AI use to ensure fairness and minimize errors.

Future of Generative AI

This module uncovers the expanding potential of generative AI in education. You will discover innovative use cases of generative AI and learn how to harness generative AI creatively in your teaching. Lastly, you will also learn best practices for developing a comprehensive AI policy for your school.

GROUP PROJECT

Throughout the course, participants will engage in a continuous project aimed at applying their learning to real-world scenarios. The project entails conducting research and needs analysis to identify a niche audience and their specific challenges. Participants will then formulate a problem statement based on their findings and develop a solution leveraging AI technology to address the identified problem effectively. As part of the process, participants will critically evaluate the feasibility and potential limitations of their proposed solution. Additionally, they will actively participate in peer review sessions, providing constructive feedback on their peers' work to foster collaboration and collective learning. By the end of the course, participants will have honed their research, problem-solving, and critical evaluation skills while gaining practical experience in leveraging AI for meaningful solutions. The project **deliverables** are as follows:

1. Needs Analysis
2. Problem Statement
3. AI Solution
4. Limitations of the Solution
5. Project Prototype

WHAT WILL YOU LEARN

Application of AI Technology: Learners will gain hands-on experience in applying AI technology to develop innovative solutions that effectively address the identified problem in their classroom, showcasing their proficiency in leveraging AI tools and techniques.

Critical Thinking and Evaluation: Learners will enhance their critical thinking skills by critically evaluating the feasibility and limitations of their proposed solution, demonstrating their ability to analyze complex problems and make informed decisions.

Effective Communication and Collaboration: Learners will improve their communication skills by providing constructive feedback on their peers' work during peer review sessions, fostering collaboration and enhancing their ability to articulate ideas and provide meaningful insights.

Problem-Solving and Innovation: Learners will develop their problem-solving and innovative thinking skills by proposing creative solutions that harness the power of AI technology to address challenges in their classrooms, showcasing their ability to generate novel ideas and drive positive change.



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