

3 Courses

First Order Optical System Design

Optical Efficiency and Resolution

Design of High-Performance Optical Systems



Jul 4, 2021

SAIKAT KAMAL

has successfully completed the online, non-credit Specialization

Optical Engineering

Optical instruments are how we see the world, from corrective eyewear to medical endoscopes to cell phone cameras to orbiting telescopes. This course will teach you how to design such optical systems with simple graphical techniques, then transform those pencil and paper designs to include real optical components including lenses, diffraction gratings and prisms. You will learn how to enter these designs into an industry-standard design tool, OpticStudio by Zemax, to analyze and improve performance with powerful automatic optimization methods.

Pobert RM Leaf May lon

Robert McLeod, PhD, Richard and Joy Dorf Endowed Professor of Electrical, Computer, and Energy Engineering; Amy Sullivan, PhD

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

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