Future Learn

Certificate of Achievement

Zain ul abideen

has completed the following course:

FUNDAMENTAL SKILLS IN ENGINEERING DESIGN

UNIVERSITY OF LEEDS, CLICK START AND INSTITUTE OF CODING

This online course explored the engineering design process, including requirement gathering, problem-solving, and project management. Learners considered the full product life cycle and different types of engineering design.

2 weeks, 3 hours per week

Sam Wilson

Dr Sam Wilson
School of Computing, University of Leeds
University of Leeds

UNIVERSITY OF LEEDS

CLICK START.

Institute of Coding

UNIVERSITY OF LEEDS   CLICK START.   Institute of Coding

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FUNDAMENTAL SKILLS IN ENGINEERING DESIGN
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97%
OVERALL
SCORE

This online course explored the engineering design process, including requirement gathering, problem-solving, and project management. Learners considered the full product life cycle, different types of engineering design and how they relate to the product life cycle. Learners also examined some of the soft skills needed for a role in engineering design.

STUDY REQUIREMENT
2 weeks, 3 hours per week

LEARNING OUTCOMES
• Describe the meaning of 'engineering design' in one sentence.
• Describe the five types of engineering design
• Describe the five phases of the engineering product life cycle.
• Describe at least three soft skills required in engineering design
• Summarise the four stages of the engineering design process.
• Practice one essential soft skill: abstraction.
• Practice conceptual design activities with the help of case study.

SYLLABUS
In this course, you will explore the fundamental aspects of engineering design, including requirement gathering, problem-solving and project management. You will actively engage in real-world design scenarios, honing your problem-solving abilities and gaining hands-on experience. By the end of the course, you will be able to confidently gather requirements and solve complex problems, ensuring your designs contribute positively to society.

• Introduction to design

• Types of engineering design
• The product life cycle
• The solar tracker

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