Mindluster Platform

About the course Design thinking and human computer

Course Presenter : IIT Roorkee July 2018

Enhance your engineering expertise with our comprehensive Design Thinking and Human-Computer Interaction online course. This training program is designed to equip professionals in the Middle East, including Saudi Arabia and the UAE, with innovative skills that foster creative problem-solving and user-centered design. By mastering these concepts, you'll be able to drive impactful engineering solutions and advance your career in a competitive industry. Throughout this course, you will learn to apply design thinking principles to engineering challenges, develop user-centric interfaces, and understand the fundamentals of human-computer interaction. The curriculum combines theoretical knowledge with practical applications, ensuring you gain real-world skills that can be immediately implemented. What you will learn: - Core concepts of design thinking tailored for engineering projects - Techniques for innovative problem-solving and creative ideation - Principles of human-computer interaction and user experience design - Methods to develop efficient and user-friendly interfaces - Strategies to integrate design thinking into engineering workflows - How to conduct user research and usability testing effectively This course is ideal for engineers, product developers, UX/UI designers, and technology professionals seeking to enhance their professional skills. Whether you're looking to improve your problem-solving capabilities or expand your expertise in human-centered design, this training course offers valuable insights for career growth. Why choose this course on our platform: - Professionally developed content from industry experts - Certified course to boost your professional profile - Flexible online learning tailored to busy schedules - Access to practical exercises and real-world case studies - Recognized certificate to demonstrate your skills and commitment Upon completing this training course, you will receive a certified qualification that can elevate your career prospects within the engineering and technology sectors. This certification not only validates your expertise but also opens doors to new opportunities across the Middle East and beyond. Invest in your future with our professional training course designed to accelerate your growth and success in the evolving engineering landscape. IIT Roorkee July 2018

Computer Science Category's Courses

Course Lesson(41)

Lesson 1 : **Augmenting Design with Human computer interaction By Prof Sonal Atreya IIT Roorkee**

Lesson 2 : **Lecture 01 Introduction**

Lesson 3 : **Lecture 02 Design Thinking Phases Empathy**

Lesson 4 : **Lecture 03 Design Thinking Phases Define**

Lesson 5 : **Lecture 04 Design Thinking Phases Deliver**

Lesson 6 : **Lecture 05 Design Thinking Applications**

Lesson 7 : **Lecture 06 Design Thinking Applications Part 2**

Lesson 8 : **Lecture 07 Components of HCI**

Lesson 9 : **Lecture 08 Components of HCI Human Ergonomics**

Lesson 10 : **Lecture 09 Interface and Interaction**

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Lesson 12 : **Lecture 11 Principles of HCI Part 2**

Lesson 13 : **Lecture 12 Divergent and Convergent Thinking**

Lesson 14 : **Lecture 13 Convergent Thinking AEIOU Framework**

Lesson 15 : **Lecture 14 Planning and Implementation of Divergent and Convergent Thinking**

Lesson 16 : **Lecture 15 Divergent and Convergent Thinking Continued**

Lesson 17 : **Lecture 16 Idea Generation and Selection Overview**

Lesson 18 : **Lecture 17 Techniques for Idea Generation**

Lesson 19 : **Lecture 18 Techniques for Idea Generation Part 2**

Lesson 20 : **Lecture 19 Techniques for Idea Generation Part 3**

Lesson 21 : **Lecture 20 Methods of Idea Selection**

Lesson 22 : **Lecture 21 Need Analysis and Design for Experience**

Lesson 23 : **Lecture 22 Design for Experience and Storytelling**

Lesson 24 : **Lecture 23 Stakeholder Mapping and Customer Journey Mapping**

Lesson 25 : **Lecture 24 Empathy Mapping and Context Mapping**

Lesson 26 : **Lecture 25 Universal Design**

Lesson 27 : **Lecture 26 Design for Accessibility**

Lesson 28 : **Lecture 27 Design Research Method**

Lesson 29 : **Lecture 28 Design Research Methods Part 2**

Lesson 30 : **Lecture 29 Questionnaire Design**

Lesson 31 : **Lecture 30 Data Analysis**

Lesson 32 : **Lecture 31 Card Sorting Thematic Analysis and Conceptual Model**

Lesson 33 : **Lecture 32 Information Architecture**

Lesson 34 : **Lecture 33 Design Elements and Principles**

Lesson 35 : **Lecture 34 Colour Theory**

Lesson 36 : **Lecture 35 Typography and Iconography**

Lesson 37 : **Lecture 36 Controls and Menus**

Lesson 38 : **Lecture 37 Visual Design Principles**

Lesson 39 : **Lecture 38 Prototyping and Usability Testing**

Lesson 40 : **Lecture 39 Case Study Medical Bed**

Lesson 41 : **Lecture 40 Case Study Tourism Website**

Related courses

Linear Algebra for Computer Scientists

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