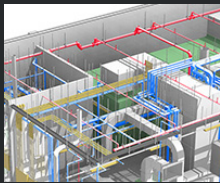




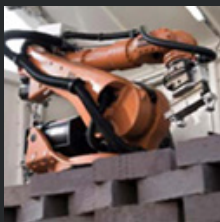
DIGITAL TECHNOLOGIES AND CONSTRUCTION AUTOMATION CERTIFICATE

Program Overview: This certificate focuses on the digital technologies and their applications for construction automation. Explore the latest technologies in digital modeling, design coordination, construction simulation, data management, environmental sensing, and energy simulations as applied to construction project management.



CE 6910: Building Information Modeling (BIM) in Construction Management

Introduction to the theory of building information modeling (BIM) and comprehensive training in relevant Autodesk software to produce 3D BIM models for improving the efficiency of design coordination, cost estimating, and construction sequencing.



CE 8930 – Digital Project Delivery

Essential techniques in managing and utilizing digital data associated with geometric models (i.e., BIM), geospatial models (i.e., GIS), business data (i.e., cost and productivity), and text documentation (i.e., inspection reports) for efficient construction project management.



CE 8930 – Emerging Topics in Digital Technologies and Construction Automation

Emerging digital technologies for the construction and operation of smart and sustainable built environment with focus on environmental sensing, energy simulation modeling, augmented reality (AR), virtual reality (VR), and unmanned aircraft systems (UAS).

Scan for more information



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