MERCURY

Advancing Intelligent Transportation Systems

19 - 30 May 2024
Amman (Jordan)

Advancing Intelligent Transportation Systems

Ref.: 15181_293562 **Date:** 19 - 30 May 2024 **Location:** Amman (Jordan) **Fees:** 5200 **Euro**

Introduction:

Intelligent Transportation Systems ITS, is increasing its footprint, with the introduction of Big Data, Artificial Intelligence AI, and IoT. The Intelligent Transportation Systems ITS of yesterday are in a way becoming legacy systems as the new technology is rapidly developing and it is creating new opportunities. It is are more and more user-centric, and no longer are the drivers at the core of the systems, as the Intelligent Transportation Systems ITS is now having vehicles and infrastructure at its core, while all other users are the beneficiaries of the system.

Targeted Groups:

- Project Managers.
- Professionals in Urban Planning.
- Strategic Development Personnel.
- Architects involved in Urban Design.
- Traffic Engineering and Researchers.
- Transport Engineers and Researchers.
- Technology Engineers, CTOs and CIOs.

Course Objectives:
At the end of this course the participants will be able to:

- Apply the tools and techniques of Big Data analysis in Intelligent Transportation Systems ITS.
- Recognize the Artificial Intelligence AI implementation within the Intelligent Transportation Systems ITS.
- Prepare for Intelligent Transportation Systems ITS management of change.
- Get acquainted with the use of visualization techniques of traffic data.
- Use pattern recognition in traffic monitoring, control, and traffic infrastructure maintenance and planning.
- Budgeting optimization and improvement.
- Lowering the costs of system use.
- Enhancing the level of service without the massive investment.
- Improve mobility within cities, areas, countries, and even cross-borders.
- Open the gates of Industry 4.0 within their systems.
- Reduce project delays and public trust issues.
- Identify the Intelligent Transportation Systems ITS possibilities.
- Learn the details of Intelligent Transportation Systems ITS innovation streams.
- Acquire the knowledge related to IoT and AI in Intelligent Transportation Systems ITS.
- Learn the data visualization requirements for successful Intelligent Transportation Systems ITS.
- Adopt modern technologies across the whole mobility sector.
- Recognize the benefits of Intelligent Transportation Systems ITS technologies in other areas.
- Accelerate their career development.
- Adopt the use of data from Intelligent Transportation Systems ITS systems to improve road asset management.

Targeted Competencies:

- Intelligent Transportation Systems ITS innovation strives.
- Intelligent Transportation Systems ITS benefit governments, industries, and users.
- Design of user-centric Intelligent Transportation Systems ITS.
- Data gathering and analysis from vehicles.
- Using drones and video analysis for traffic counting.
- Road asset data collection from vehicles.
- Pattern Recognition and Artificial Intelligence in Intelligent Transportation Systems ITS.

Course Content:
Unit 1: Intelligent Transportation Systems ITS and Big Data:

- Big Data Use in Intelligent Transportation Systems ITS Projects
- Data Visualization for Urban Planning
- Intelligent Transportation Systems ITS Data Collection and Analysis
- The Data Sources and Its Correlation in Intelligent Transportation Systems ITS
- Data Sharing and Additional Data Sources

Unit 2: Intelligent Transportation Systems ITS and Artificial Intelligence AI:

- Artificial Intelligence in Traffic Control and Monitoring Systems
- Artificial Intelligence in Vehicles
- Pattern Recognition and Use of Drones
- Traffic Signs Recognition and Navigation Map Updates
- Intelligent Transportation Systems ITS for Self-driving Cars
- The Multi-layered Traffic System

Unit 3: Urban Mobility Improvement Through ITS:

- Travel Time Reduction
- Automatic Routing and Re-routing
- Proximity Detection
- Energy Conservation
- Mobility Social Networking

Unit 4: The ITS and IoT for User-Centric Design:

- User - Vehicle - System Communication
- System Adaptation of User Behavior Patterns
- Adoptive Speed Limits
- Adoptive Parking
- Multimodal Intelligent Transportation Systems ITS

Unit 5: Intelligent Transportation Systems ITS Sustainability:

- Intelligent Transportation Systems ITS Sources of Finance
- Intelligent Transportation Systems ITS Cost Reduction Analysis
- Intelligent Transportation Systems ITS Adaptation for Road Asset Management
- Intelligent Transportation Systems ITS as a Profit Center
- The future of Intelligent Transportation Systems ITS

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Registration form on the :
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