University of Bahrain
MICRO-CREDENTIAL

Artificial Intelligence (AI) and the Internet of Things (IoT) for Real life Applications

GENERAL INFORMATION

Duration: 8 Weeks

Total Hours: 80 hours

Venue: To be announced

Fees: 500 BHD

Credits: 2 credits

Level: Postgraduate

Language: English

Pre-requisite: None

INSTRUCTORS BIOGRAPHY

Prof. Ebrahim Mattar

Professor,
Electrical and Electronics Engineering

Prof. Mohab A. Mangoud

Professor
Electrical and Electronics Engineering

Dr. Mohammed Majid Al Khalidy

Assistant Professor,
Electrical and Electronics Engineering

Micro-credential is a short, focused course designed to equip learners with specific skills and knowledge within a specialized area. It serves as a pathway to earning an equivalent certification for a core course, offering a flexible and targeted learning experience.

COURSE OVERVIEW

The course offers a comprehensive overview of AI in IoT, covering methods, models, programming languages, AI-driven data analytics, predictive maintenance, smart devices, and automation. Participants will explore how AI enhances IoT efficiency, scalability, and intelligence. The course includes a practical demo on auto-learning models for network incident prediction and a case study in the IoT domain.

DELIVERY MODE

- 24 hours in-person teaching (3 hours/week over 8 weeks)
- 8 hours synchronous online sessions (1 hour/week over 8 weeks)
- 32 hours asynchronous learning (4 hours/week over 8 weeks)
- 16 hours guided project work
- Peer-to-peer engagement through discussions, collaboration, and idea exchange.

ASSESSMENTS

- Four Assignments (40%)
- Four Case Studies (20%)
- One final project (40%)

TARGET AUDIENCE

The AI and IoT micro-credential targets diverse audiences:

- Current Students
- Prospective Students
- Adult Learners and Professionals
- Alumni
- Business/Industry Partners
- Community Partners
- Faculty/Staff

KEY TOPICS COVERED

- IoT Introduction
- AI Fundamentals for IoT Systems
- Data Collection and Management in IoT
- IoT Data Communication
- IoT Data Storage & Retrieval: Edge AI for IoT
- AI-Driven Predictive Maintenance in IoT
- AI for IoT Security and Privacy
- Computer Vision in IoT

Scan the code
for Registration

For further Information, please contact:

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