University of Bahrain
MICRO-CREDENTIAL

Industrial Biotechnology and Sustainable Development

GENERAL INFORMATION

Duration: 4 Weeks

Total Hours: 120 hours

Venue: University of Bahrain

Fees: 240 BHD

Credits: 3 credits (BIOLS 409 Biotechnology and Development / BIOLS 406 Bioremediation of Pollutants / BIOLS 604 Industrial Biotechnology)

Level: Graduate **Language:** English

Pre-requisite: Diploma/bachelor's in Chemistry, Biology, Food, Agriculture, Environmental Science, Engineering, or related fields.

INSTRUCTOR BIOGRAPHY

Dr. Maysoon Nedham Awadh

An assistant professor at the University of Bahrain, holds a Ph.D. in Environmental and Molecular Biotechnology. Her research includes biodesulfurization, bioremediation, and omics techniques for environmental issues. She has received multiple awards and published books and articles.

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

This micro-credential provides a comprehensive understanding of designing and operating advanced life science processes that prioritize product quality, sustainability, and financial viability. Participants will learn to utilize cells, cell components, and biomolecules to produce commodities such as chemicals, food, biofuels, clean water, and biomaterials, contributing to a sustainable industrial market. The program highlights the role of biotechnological solutions in promoting sustainable development within the industrial sector.

DELIVERY MODE

120 hours of contact learning, 20 Hours weekly (lectures, case Studies, practical and applied projects)

ASSESSMENTS

- Case Studies (40%)
- Final Project (60%)

TARGET AUDIENCE

- Graduates work as research scientists, field application specialists, QC scientists, project managers, science communicators, laboratory managers, operation developers, sales representatives, patent analysts and research associates.

KEY TOPICS COVERED

- Introduction to Biotechnology and Sustainable Development Goals (SDGs)
- Use of Microorganisms for Crop Improvement and Transgenic Technology
- Role of Endophytes and Plant Growth-Promoting Rhizobacteria (PGPR)
- Biotechnology Applications in Medicine and Public Health
- Biotechnology in Energy Production and Oil Recovery
- Bioremediation and Pollution Control Techniques

Scan the code
for Registration

For further Information, please contact:

Mr. Mohammed Al-Hooti
Tel:+973-33777339
Email: malhooti@uob.edu.bh

https://microcredentials.uob.edu.bh/