



University of Bahrain MICRO-CREDENTIAL



Valorization: Think like Chemist

GENERAL INFORMATION

Duration: 4 Weeks

Total Hours: 40 hours

(24 hours theory + 16 hours practical)

Venue: University of Bahrain

Fees: 500 BHD

Level: Postgraduate\ graduate

Language: English

Pre-requisite: None

INSTRUCTOR BIOGRAPHY



Dr. Irshad Ul Haq Bhat

Dr. Bhat, Ph.D. from Aligarh Muslim University (2008), has 15 years of research experience in bioinorganic chemistry, nanocatalysis, and nanoparticle synthesis. He has published over 50 research articles and book chapters and joined the University of Bahrain in January 2023.



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 "Valorization: Think like a Chemist" is a 4-week course focused on converting waste, especially food waste, into valuable products such as chemicals and bioactive compounds. Participants will learn green extraction techniques and product development skills, supporting sustainability and the circular economy.

DELIVERY MODE

Face to Face

ASSESSMENTS

- Worksheets: 20%
- Lab Assignments: 30%
- Group Discussion and Presentation: 10%
- Project: 40%

TARGET AUDIENCE

- Diploma holders (Science-based)
- Undergraduate and postgraduate degree holders in Chemistry, Biology, Biochemistry, or Nanotechnology
- Hotel chefs and hypermarket employees involved in food management
- Lab technicians
- SMEs investors

KEY TOPICS COVERED

- Introduction to Valorization
- Sample Processing and Extraction Techniques
- Optical and Analytical Characterization of Extractives
- Product Development and Application in Food and Nutraceuticals
- Entrepreneurial Skills Development



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For further Information, please contact:

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