

POST GRADUATE COURSE CIRCULAR ECONOMY AND SUSTAINABILITY STRATEGIES

B3 MODULE: ENVIRONMENTAL DECISION MAKING

Team: **Kondili E.**, Papapostolou Ch.

EMILIA M. KONDILI SHORT CV



Dr Emilia M. Kondili MSc, PhD, DIC) is a Chemical Engineer graduated from the Aristotle University of Thessalonica, 1983. She holds an MSc Degree in Process Systems Engineering, with a mark of Distinction, Chemical Engineering Department, Imperial College, UK. She also holds a PhD from Chemical Engineering Dept., Imperial College, UK. The title of her PhD thesis is 'Optimal Scheduling of Batch Chemical Processes'.

Her current position is Professor in the Mechanical Engineering Department, University of West Attica. She is the Director of the Optimisation of Production Systems Lab., the Director of MSc Oil and Gas Process Systems Engineering Postgraduate Course supported by Hellenic Petroleum and the Aspropyrgos Municipality as well as Director of the MSc in Energy and Environmental Developments Postgraduate Course.

Her expertise is in Process Systems Engineering and her specialisation lies in the optimization of energy, environmental and industrial systems, in the design, simulation and optimisation of Production Systems, in production management, and in the resources management with the use of Optimisation Methods and Tools. She is currently being involved in feasibility and circular economy research projects.

She has an industrial experience as Process Engineer in Hellenic Petroleum (Hellenic Aspropyrgos Refinery). In addition, she has been working in the Heracles General Cement Company in the design and implementation of energy optimisation systems for the Cement Milling Process. She has also a ten years' experience in the consulting/engineering of energy and environmental projects. She has participated in

numerous research projects either as the Scientific Coordinator or as Deputy Scientific Coordinator in the fields of novel energy and environmental developments.

Her recent research interests are focused in the feasibility, modelling and optimisation of circular economy projects in the industry, energy and environmental projects.

She has participated in international book editions in her fields of expertise and has been a reviewer in more than ten well-respected scientific international journals in the fields of Energy, Environment and Systems Engineering. She is the author of more than 50 papers in international journals and more than 100 papers in international conferences, with more than 1700 citations in her published work. Member (Greek representative) in the Computer Aided Process Engineering Working Party of the EFCE since 1991, member of the Technical Chamber of Greece and the Official Representative of the University of West Attica in the Hellenic Foundation of Research and Innovation.

ENVIRONMENTAL DECISION MAKING MODULE CONTENTS

- ✓ The needs for Decision Making in environmental management and engineering
- ✓ Decision making processes and tools
- ✓ Mathematical Optimisation in environmental decision making
- ✓ Multicriteria Analysis in environmental decision making
- ✓ Structure and operation of an environmental decision making tool in (manufacturing and process industry
- ✓ Structure and operation of an environmental decision making tool in buildings
- ✓ Structure and operation of an environmental decision making tool in transportation, etc.)
- ✓ Implementation cases: water, energy, supply chains, waste water, solid waste
- ✓ Decision making for circular economy concepts implementation.