



ECOLOGICAL TRANSITION

Study Program location: Bergamo

Duration: 2000 Hours

Goal of the program:

The specialist after studying the Ecological Transition program is able to intervene in the circular economy processes (as provided for by the European Action Plan) that will be applied in companies. In particular, the program has two objectives:

- a) in-depth training on the various types of materials and on new methods for recycling to foster industrial symbiosis, encouraging and supporting the re-use market;
- b) acquisition of key competences for the management of the design and re-design process of products in conjunction with the European recommendations against fast fashion, planned obsolescence and the promotion of policies aimed at extending the life of products and transforming them into secondary raw materials.

Career opportunities (Possible Departments):

- Laboratory
- Research and Development
- Quality Control
- Material testing
- Process optimization
- Testing
- Technical assistance
- Management and production



SUPERIOR SPECIALIST FOR THE ECOLOGICAL TRANSITION			
REALIGNMENT	Name of the discipline	Hours	
	GENERAL CHEMISTRY STOICHIOMETRIC FUNDAMENTALS	32	
	MATHEMATICAL ANALYSIS	50	
	FINITE ELEMENTS AND THEIR APPLICATIONS	46	
	ETHICS, SOFT SKILLS OF BUSINESS COMMUNICATION	12	
	LINEAR SYSTEMS	48	
	Total realignment hours	188	
MODULES	Name of the discipline	Hours	
	<u>ECONOMICS AND BUSINESS ORGANIZATION</u>		
	MARKETING	32	
	BUSINESS PLANNING	16	
	CONFLICT AND PROBLEM SOLVING	24	
	TECHNICAL ENGLISH LANGUAGE	40	
	FUNDAMENTALS OF COMPUTER SCIENCE	48	
	ECONOMICS AND MANAGEMENT OF TECHNOLOGY TRANSFER	48	
	BUSINESS ORGANIZATION, PRODUCTION MANAGEMENT AND LOGISTICS	24	
	MANAGEMENT SYSTEMS FOR QUALITY AND THE ENVIRONMENT	24	
	SAFETY AND ENVIRONMENTAL LEGISLATION	16	
	<u>BASIC CHEMISTRY</u>		
	GENERAL CHEMISTRY	30	
	ORGANIC CHEMISTRY	30	
	METAL CHEMISTRY	30	
	PHYSICAL CHEMISTRY OF COLLOIDS AND INTERPHASES	48	
	MATERIALS TECHNOLOGIES	60	
	INSTRUMENTAL ANALYSIS AND CONTROL OF MATERIALS	48	
	CHEMISTRY OF ORGANIC AND INORGANIC INGREDIENTS OF FORMULATIONS	30	
	<u>MATHEMATICS AND APPLIED PHYSICS</u>		
	MATHEMATICAL PHYSICS	48	
	CHEMICAL PLANT CONTROL INSTRUMENTS	72	
	THERMODYNAMICS	32	
	HEAT TRANSFER	24	
	TRANSPORT PHENOMENA	48	
	<u>TECHNOLOGIES FOR THE CIRCULAR ECONOMY</u>		
	VALORISATION OF SECONDARY RAW MATERIALS	30	
	LIFE CYCLE ASSESSMENT	20	
	PRODUCT DESIGN AND RE-DESIGN	24	
	EUROPEAN AND NATIONAL ENVIRONMENTAL LEGISLATION	24	
	CIRCULAR ECONOMY APPLICATIONS	32	
	PROCESSES OF DISINTEGRATION OF MATERIALS	22	
	ENERGY, ENERGY SOURCES, COSTS ASSESTMENT	16	
	<u>TECHNOLOGIES 4.0</u>		
	CAD CAM 2/3D	48	
	INDUSTRIAL AUTOMATION	48	
	MECHANICAL SYSTEMS	48	
	CHEMICAL PLANTS 4.0	72	
	MACHINE VISION SYSTEMS	24	
		Total	1.180
		TRAINING	820
	Total with training	2.000	