



MASTER (LM) DEGREE COURSE IN

SUSTAINABLE CHEMISTRY AND TECHNOLOGIES FOR THE CIRCULAR ECONOMY

Study programme for students enrolled in the academic year 2025-2026 - entirely held in English

CURRICULUM RESOURCES AND PRODUCT DESIGN AND RECYCLING

1st YEAR

MANDATORY UNITS	CREDITS
GREEN CHEMISTRY AND INNOVATIVE CHEMICAL PROCESS	9
RENEWABLE ENERGY TECHNOLOGIES	6
WATER RESOURCES MANAGEMENT IN THE CIRCULAR ECONOMY	6
CIRCULAR AND SUSTAINABLE WASTE MANAGEMENT	9
THERMODYNAMICS AND CATALYSIS FOR CIRCULAR ECONOMY (C.I.)	12
OPERATIONS AND SUPPLY CHAIN MANAGEMENT	6
EUROPEAN UNION ENVIRONMENTAL AND ENERGY LAW	6
ECONOMICS FOR THE CIRCULAR ECONOMY	6

2nd YEAR

MANDATORY UNITS	CREDITS
MATERIALS DESIGN AND SELECTION FOR CIRCULAR ECONOMY	9
SUSTAINABLE MATERIALS AND RECYCLING FOR CIRCULAR ECONOMY (C.I.)	18
CIRCULARITY IN BIOMASS PRODUCTION	6
2 FREE-CHOICE UNITS AMONG THE FOLLOWING:	CREDITS
HEALTH AND ENVIRONMENT IN CIRCULAR ECONOMY	6
PSYCHOLOGY, POLICY MAKING AND EDUCATION TO A CIRCULAR ECONOMY	6
SYNTHETIC BIOTECHNOLOGY	6
UNDERSTANDING STATISTICS OF CIRCULAR ECONOMY	6
CIRCULAR ECONOMY SUMMER SCHOOL	5
OTHER MANDATORY ACTIVITIES	
ADDITIONAL FREE-CHOICE CREDITS	12
FINAL THESIS/DISSERTATION	15

ANY FURTHER NOTES

- free-choice credits can be chosen among the university's educational offer as long as they are consistent with the educational path
- in the educational offer of the Master degree course in Sustainable Chemistry and Technologies for the Circular Economy/Curriculum Resources and Product Design and Recycling, five teachings have been introduced specifically for free- choice, shown in the table below, whose contents are certainly consistent with the educational path
- according to the didactic regulation of the degree course, attendance is mandatory for lessons for at least 70% of the hours and for laboratories for at least 75% of the hours

CURRICULUM ENERGY CONVERSION AND STORAGE	
1st YEAR	
MANDATORY UNITS	CREDITS
GREEN CHEMISTRY AND INNOVATIVE CHEMICAL PROCESS	9
RENEWABLE ENERGY TECHNOLOGIES	6
WATER RESOURCES MANAGEMENT IN THE CIRCULAR ECONOMY	6
CIRCULAR AND SUSTAINABLE WASTE MANAGEMENT	9
THERMODYNAMICS AND CATALYSIS FOR CIRCULAR ECONOMY (C.I.)	12
OPERATIONS AND SUPPLY CHAIN MANAGEMENT	6
EUROPEAN UNION ENVIRONMENTAL AND ENERGY LAW	6
ECONOMICS FOR THE CIRCULAR ECONOMY	6
2nd YEAR	
MANDATORY UNITS	CREDITS
BIOREFINERIES AND SUSTAINABLE ENERGY PRODUCTION AND STORAGE FOR CIRCULAR ECONOMY	15
SUSTAINABILITY STRATEGIES AND ENERGY ECONOMICS (C.I.)	12
LIFE CYCLE ASSESSMENT	6
2 FREE-CHOICE UNITS AMONG THE FOLLOWING:	CREDITS
HEALTH AND ENVIRONMENT IN CIRCULAR ECONOMY	6
PSYCHOLOGY, POLICY MAKING AND EDUCATION TO A CIRCULAR ECONOMY	6
SYNTHETIC BIOTECHNOLOGY	6
UNDERSTANDING STATISTICS OF CIRCULAR ECONOMY	6
CIRCULAR ECONOMY SUMMER SCHOOL	5
OTHER MANDATORY ACTIVITIES	
ADDITIONAL FREE-CHOICE CREDITS	12
FINAL THESIS/DISSERTATION	15

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