



**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**

<b>MANDATORY UNITS</b>	<b>CREDITS</b>
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**

<b>MANDATORY UNITS</b>	<b>CREDITS</b>
MATERIALS DESIGN AND SELECTION FOR CIRCULAR ECONOMY	9
SUSTAINABLE MATERIALS AND RECYCLING FOR CIRCULAR ECONOMY (C.I.)	18
CIRCULARITY IN BIOMASS PRODUCTIONS	6
<b>2 FREE-CHOICE UNITS AMONG THE FOLLOWING:</b>	<b>CREDITS</b>
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
<b>OTHER MANDATORY ACTIVITIES</b>	
<b>ADDITIONAL FREE-CHOICE CREDITS</b>	<b>12</b>
<b>FINAL THESIS/DISSERTATION</b>	<b>15</b>

#### 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

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

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