



Faculty of ENVIRONMENTAL ENGINEERING AND FOOD SCIENCE

Domain: Food Engineering

Study program: Bioresources Engineering

Duration of studies: 2 years

Education form: continuous (M.Sc.)

Code: FMA-MBE



## Programme Syllabus

First year

*Semester I*

Code	Discipline	No. of hours				Evaluation form E/C/V
		Course	Seminary	Applications	Project	
<b>Mandatory teaching units</b>						
MBE 1 A S 01	<i>Agricultural Production and Residues</i>	1	2	-	-	E
MBE 1 B A 02	<i>Biodiversity</i>	2	1	-	-	E
MBE 1 B A 03	<i>Ecological Systematization of Territory</i>	1	1	-	-	E
MBE 1 B A 04	<i>Plant and Animal Resources</i>	1	1	-	-	E
MPA 1 B A 05	<i>Scientific Research</i>	-	-	1	-	C
<b>Elective teaching units</b>						
MBE 1 O A 06	<i>Bioremediation</i>	1	-	2	-	C
MBE 1 O A 07	<i>Ecotoxicology</i>					

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web: <http://fimsa.valahia.ro>



### Semester 2

Code	Discipline	No. of hours				Evaluation form E/C/V
		Course	Seminary	Applications	Project	
<b>Mandatory teaching units</b>						
MBE 1 B S 08	<i>Crop Modeling</i>	1	1	-	-	E
MBE 1 B S 09	<i>Environmental Pollution and Monitoring Systems</i>	1	-	2	-	E
MBE 1 B A 10	<i>Post-Harvest Food Bioresources Preservation Principles</i>	1	-	2	-	E
MBE 1 B S 11	<i>Food Security and Safety</i>	2	1	-	-	E
LPA 1 B D 12	<i>Scientific Research</i>	-	-	1	-	C
<b>Elective teaching units</b>						
MBE 1 O A 13	<i>Renewable Energy for Rural Areas</i>	1	1	-	-	C
MBE 1 O A 14	<i>Spatial Data Analysis with GIS</i>					

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**Second year**  
**Semester I**

Code	Discipline	No. of hours				Evaluation form E/C/V
		Course	Seminary	Applications	Project	
<b>Mandatory teaching units</b>						
MBE 2 B A 01	<i>Food Technologies</i>	2	-	1	-	E
MBE 2 B A 02	<i>Microbiological Safety within the Food Production Chain</i>	2	-	1	-	E
MBE 2 B S 03	<i>Food Quality Control</i>	1	-	2	-	E
MBE 2 B A 04	<i>Food and Nutrition</i>	1	1	-	-	C
MBE 2 B A 05	<i>Scientific Research</i>	-	-	1	-	C
<b>Elective teaching units</b>						
MBE 2 O A 06	<i>Valorization of Food By-Products</i>	1	-	1	-	C
MBE 2 O A 07	<i>Genetically Modified Organisms</i>		1	-	-	

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### Semester 2

Code	Discipline	No. of hours				Evaluation form E/C/V
		Course	Seminary	Applications	Project	
<b>Mandatory teaching units</b>						
MBE 2 B S 08	<i>Scientific research and practical training module</i>	10 weeks x 14 hours/week = 140 hours				E
MBE 2 B S 09	<i>Practical training for elaboration of dissertation thesis</i>	4 weeks x 14 hours/week = 56 hours				C

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